

**BM-V-SDB with Air, BM-V-SD with Air, BM-V-S with Air, BM-V-SB with Air**  
**INCLUDING: OPERATION, INSTRUCTION, INSTALLATION, MAINTENANCE AND PARTSBOOK**

**IMPORTANT: READ THIS MANUAL CAREFULLY BEFORE INSTALLING, OPERATING OR  
SERVICING THIS TOOL.**

**CARCASS SPLITTING SAW**

**TOOL DATA**

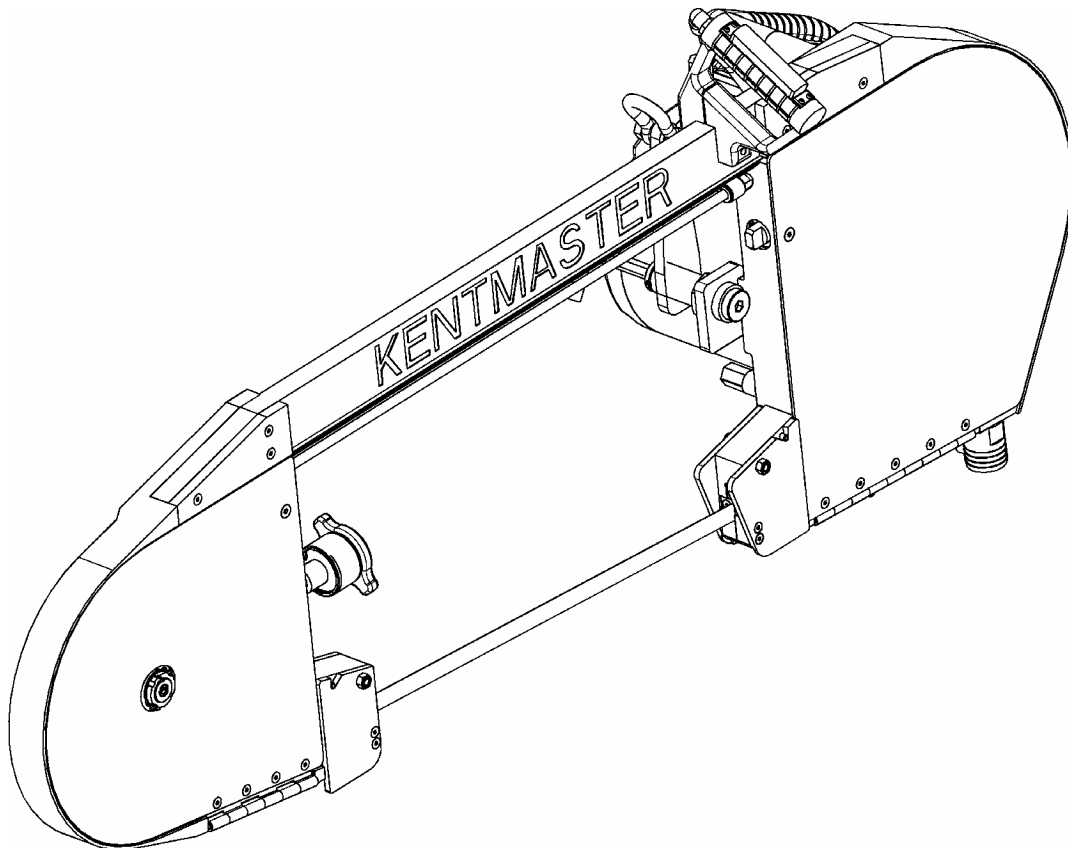
MODEL: BANDMASTER BM-V-SDB w/Air  
ASSEMBY NO. 1731000  
TYPE: ELECTRICAL / AIR OPERATED  
NET WEIGHT: 170 LB (77.3 KG)  
MOTOR HORSEPOWER: 2HP / 3HP




MODEL: BANDMASTER BM-V-SD with Air  
ASSEMBY NO. 1708300  
TYPE: ELECTRICAL / AIR OPERATED  
NET WEIGHT: 170 LB (77.3 KG)  
MOTOR HORSEPOWER: 2HP / 3HP

MODEL: BANDMASTER BM-V-S with Air  
ASSEMBY NO. 1708200  
TYPE: ELECTRICAL / AIR OPERATED  
NET WEIGHT: 180 LB (82 KG)  
MOTOR HORSEPOWER: 3HP / 5HP









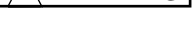
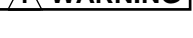
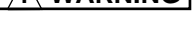




MODEL: BANDMASTER BM-V-SB with Air  
ASSEMBY NO. 1708250  
TYPE: ELECTRICAL / AIR OPERATED  
NET WEIGHT: 200 LB (91 KG)  
MOTOR HORSEPOWER: 3HP / 5HP

VIBRATION: LESS THAN (<) 123 dB < 1.41m/s<sup>2</sup>  
NOISE: LESS THAN 81dB



|  |   |
|--|---|
|  <b>WARNING</b> | = Hazards or unsafe practices which could result in severe personal injury, death or substantial property damage. |
|  <b>CAUTION</b> | = Hazards or unsafe practices which could result in minor personal injury, product or property damage.            |
|  <b>NOTICE</b>  | = Important installation, operation or maintenance information.   |

## OPERATING AND SAFETY INSTRUCTIONS

-  **WARNING** DO NOT OPERATE THIS TOOL UNTIL YOU HAVE READ AND UNDERSTOOD THE SAFETY INSTRUCTIONS AND OPERATING MANUALS.
-  **WARNING** DO NOT OPERATE THIS TOOL UNTIL YOU HAVE RECEIVED TRAINING IN THE HANDLING, OPERATION AND USE OF THIS TOOL.
-  **WARNING** STOP USING A MALFUNCTIONING OR DEFECTIVE TOOL IMMEDIATELY. REPORT ANY PROBLEMS OR DEFECTS TO YOUR SUPERVISOR FOR REMOVAL OF THE TOOL FROM SERVICE.
-  **WARNING** DO NOT ATTEMPT TO REPAIR THE TOOL YOURSELF.
-  **WARNING** DO NOT ALLOW UNAUTHORIZED PERSONS TO USE TOOL.
-  **WARNING** REMOVE AND DISCONNECT POWER FROM THE TOOL WHEN TOOL IS LEFT UNATTENDED OR IS NOT IN USE.
-  **WARNING** NEVER TIE DOWN, BYPASS, ALTER OR MODIFY THE ACTIVATING SWITCHES OR TRIGGERS OF THIS TOOL.
-  **WARNING** NEVER MAKE ALTERATIONS OR MODIFICATIONS TO THIS TOOL.
-  **WARNING** BE CONSTANTLY AWARE AND ALERT FOR UNSAFE CONDITIONS AND REPORT THEM IMMEDIATELY TO YOUR SUPERVISOR.
-  **WARNING** NEVER PLACE YOUR HAND OR ANY PART OF YOUR BODY IN THE CUTTING PATH OF THE TOOL.
-  **WARNING** NEVER ALLOW ANYONE ELSE TO PLACE THEIR HANDS OR ANY PART OF THEIR BODY IN THE CUTTING PATH OF THE TOOL.
-  **WARNING** DO NOT ACTIVATE CONTROL SWITCHES OR TRIGGERS OF THIS TOOL UNLESS YOU INTEND TO TEST OR OPERATE THIS TOOL.
-  **WARNING** DO NOT USE THIS TOOL FOR ANY PURPOSE OTHER THAN IT'S INTENDED PURPOSE.
-  **CAUTION** WHEN OPERATING THIS TOOL WEAR THE PROTECTIVE GEAR AND SAFETY EQUIPMENT SUPPLIED TO YOU.
-  **WARNING** THE NOISE EMISSION (SOUND PRESSURE LEVEL) AT THE WORKSTATION MAY EXCEED 80 dB (A). EAR AND SOUND PROTECTION GEAR IS REQUIRED.  
 VIBRATION: LESS THAN (<) 123 dB < 1.41m/s<sup>2</sup>  
 NOISE: LESS THAN 81dB

**OPERATING INSTRUCTIONS**

**⚠ WARNING ONLY TRAINED PERSONNEL ARE TO OPERATE THIS TOOL.**

1. TO ENSURE TOOL IS OPERATING PROPERLY, PERFORM FOLLOWING STEPS AT START OF EACH SHIFT:
  - MAKE SURE TOOL MOVES UP AND DOWN FREELY WHILE HANGING FROM BALANCER OVERHEAD.
  - WITH POWER TO TOOL TURNED ON, TEST TRIGGER FOR PROPER OPERATION.
  - DEPRESS EACH TRIGGER SEPARATELY. TOOL SHOULD NOT ACTIVATE. DEPRESS BOTH TRIGGERS. TOOL SHOULD ACTIVATE.
  - IF TOOL HAS "ANTI-TIE DOWN" OPTION, BOTH TRIGGERS MUST BE DEPRESSED SIMULTANEOUSLY FOR TOOL TO ACTIVATE.
2. TO PERFORM WORK, HOLD TOOL FIRMLY AT BOTH HANDLES. SQUEEZE TRIGGERS TO ACTIVATE TOOL.
3. START CUT WITH SAW NOSE POINTED UP AT AN ANGLE.
4. LEVEL SAW TO HORIZONTAL POSITION IN LOIN AREA.
5. POINT NOSE OF SAW AT DOWNWARD ANGLE IN CHUCK AND NECK AREA.
6. A BEGINNING SPLITTER CAN MARK BACKFAT OF BEEF WITH A KNIFE TO HELP SAW DOWN CENTER OF BACKBONE AND UNTIL OPERATOR IS FAMILIAR WITH SPLITTING PROCEDURE.
7. DO NOT EXERT EXCESSIVE PRESSURE. ALLOW TIME FOR THE TOOL TO CUT.
8. PUSH SAW FORWARD SO THAT GUARDS, ITEMS 1 AND 2 FIGURE 1, RIDE AGAINST BEEF. THIS HELPS STEADY SAW IN CUT AND HELPS ELIMINATE BLADE JUMPING AND CHATTERING.
9. TOOL REQUIRES 40 S.C.F.M. OF AIR @ 90 P.S.I. AIR PRESSURE.

**MAINTENANCE**

**⚠ WARNING ONLY TRAINED AND QUALIFIED PERSONNEL ARE TO PERFORM MAINTENANCE AND SERVICE TO THIS TOOL.**

1. TOOL REQUIRES GREASING AFTER 40 HOURS OF OPERATION. GREASE USING KENTMASTER GREASE (PART NO. 7903070).

**BLADE REMOVAL AND CLEANING.**

**⚠ WARNING ALWAYS DISCONNECT POWER SUPPLY FROM TOOL BEFORE INSTALLING OR REMOVING BLADE FROM TOOL.**

**⚠ WARNING ALWAYS WEAR WIRE MESH GLOVES WHEN INSTALLING OR REMOVING BLADE FROM TOOL.**

1. REMOVE PAPER WRAPPER FROM BLADE.
2. OPEN COVERS, FIGURE 1, ITEMS 1,2, 3 AND 4.
3. INSTALL TORQUE WRENCH, ITEM 5, INTO SCREW, FIGURE 1, ITEM 6, AND TURN COUNTER-CLOCKWISE (CCW). THIS ALLOWS TAKE-UP WHEEL AND SLIDE, ITEMS 7 AND 8, TO RETRACT.
4. SLIDE TAKE-UP WHEEL TO RIGHT.
5. HOLD BLADE, WITH TEETH FACING AWAY FROM YOU, AND INSTALL INTO SLOT OF BEAM, CONTINUING AROUND AND OVER THE TAKE-UP AND DRIVE WHEELS.
6. TURN TORQUE WRENCH CLOCKWISE (CW) TO ELIMINATE BLADE SLACK AND TIGHTEN TAKE-UP WHEEL AGAINST BLADE (TORQUE WRENCH IS PRESET AT FACTORY AND WILL SLIP AFTER PLACING PROPER TENSION ON BLADE).
7. TWIST BLADE 90° AT BLADE GUARDS AND INSERT BLADE INTO SLOTS WITH TEETH FACING DOWNWARD.
8. TURN DRIVE WHEEL, ITEM 9, SLOWLY BY HAND, TO CHECK TRACKING OF BLADE ON WHEELS.
9. RETORQUE AGAIN UNTIL TORQUE WRENCH SLIPS.

**AT END OF EACH SHIFT:**

1. REMOVE SAW BLADE.
2. IF USING BLADE AGAIN, WASH BLADE WITH HOT WATER TO REMOVE FAT, MEAT AND BONE PARTICLES.
3. DRY AND APPLY A COAT OF MINERAL OIL TO ENTIRE SURFACE OF BLADE TO AVOID OXIDATION.

## CLEANING AND STERILIZING SAW

### AT END OF EACH SHIFT:

1. REMOVE SAW BLADE.
2. CLEAN AND WASH DOWN BOTH INSIDE AND OUTSIDE OF ENTIRE MACHINE THOROUGHLY WITH HOT WATER AND CLEANING AGENT. AVOID USING HARSH CAUSTIC CLEANERS ON MACHINE.
3. WASH OFF ALL BONE DUST AND MEAT PARTICLES FROM INSIDE OF FRAMES, AROUND WHEELS AND GUIDES.
4. SPRAY BOTH INSIDE AND OUTSIDE OF MACHINE WITH A LIGHT COAT OF MINERAL OIL.

## WATER CONNECTION

A BULKHEAD FITTING, FIGURE 1, ITEM 10, IS PROVIDED AT THE BASE OF DRIVE SIDE FRAME, ITEM 11, FOR CONNECTION TO COLD WATER. ADJUST CONNECTOR AND NOZZLE, ITEMS 12 AND 13, TO CLEAN BONE DUST FROM DRIVE WHEEL AND MEAT PARTICLES TRAPPED BETWEEN TEETH OF SAW BLADE. FITTING AND HOSE, ITEMS 14 AND 15, AT BASE OF DRIVE SIDE FRAME, ARE PROVIDED FOR DRAINAGE OF WASTE WATER.

## TORQUE WRENCH CALIBRATION

TORQUE WRENCH, ITEM 5, IS CALIBRATED AND PRESET TO 55 INCH/LBS AT FACTORY. PERIODICALLY CHECK CALIBRATION BY USE OF ANOTHER TORQUE WRENCH WITH A DIAL TO MAKE ADJUSTMENT AND RESET TORQUE WRENCH TO 55 INCH/LBS. REMOVE TORQUE WRENCH COVER TO **CLEAN AND LUBRICATE PERIODICALLY.**

### TESTING AND SETTING OF TORQUE WRENCH:

#### TOOLS REQUIRED:

- HEX WRENCH -- 3/16"
- HEX BAR -- 1/2", ABOUT 3"-6" LONG
- HEX SOCKET -- 1/2" WITH DRIVE END TO MATCH COMMERCIAL WRENCH SELECTED
- TORQUE WRENCH, COMMERCIAL DIAL TYPE PREFERABLE
- SCREWDRIVER -- 3/8"-7/16" FLAT BLADE

#### STEP 1 -- TESTING KENTMASTER TORQUE WRENCH

- A. ATTACH COMMERCIAL TORQUE WRENCH TO KENTMASTER TORQUE WRENCH USING 1/2" HEX BAR AND 1/2" HEX SOCKET.
- B. HOLD ASSEMBLY FIRMLY AND ROTATE KENTMASTER TORQUE WRENCH CLOCKWISE SLOWLY UNTIL WRENCH "***SLIPS***".
- C. INDICATOR NEEDLE ON COMMERCIAL TORQUE WRENCH SHOULD READ 55 IN/LBS  $\pm 3$  IN/LBS (5%). IF OVER OR UNDER VALUE, PROCEED TO STEP 2 -- RESETTING KENTMASTER TORQUE WRENCH.

#### STEP 2 -- RESETTING KENTMASTER TORQUE WRENCH

- A. USING 3/16" HEX WRENCH, REMOVE FOUR (4) SCREWS HOLDING THE WRENCH HANDLE IN PLACE. REMOVE HANDLE AND GASKET. SET ALL PARTS ASIDE FOR REUSE.
- B. HOLD WRENCH BODY SECURE BY EITHER CLAMPING SMALL DRIVE END IN VISE OR BY CLAMPING THE 1/2" HEX BAR IN VISE AND ATTACHING WRENCH TO BAR.

***NOTE: Do not clamp body of Torque Wrench in vise as severe damage to Torque Wrench could occur.***

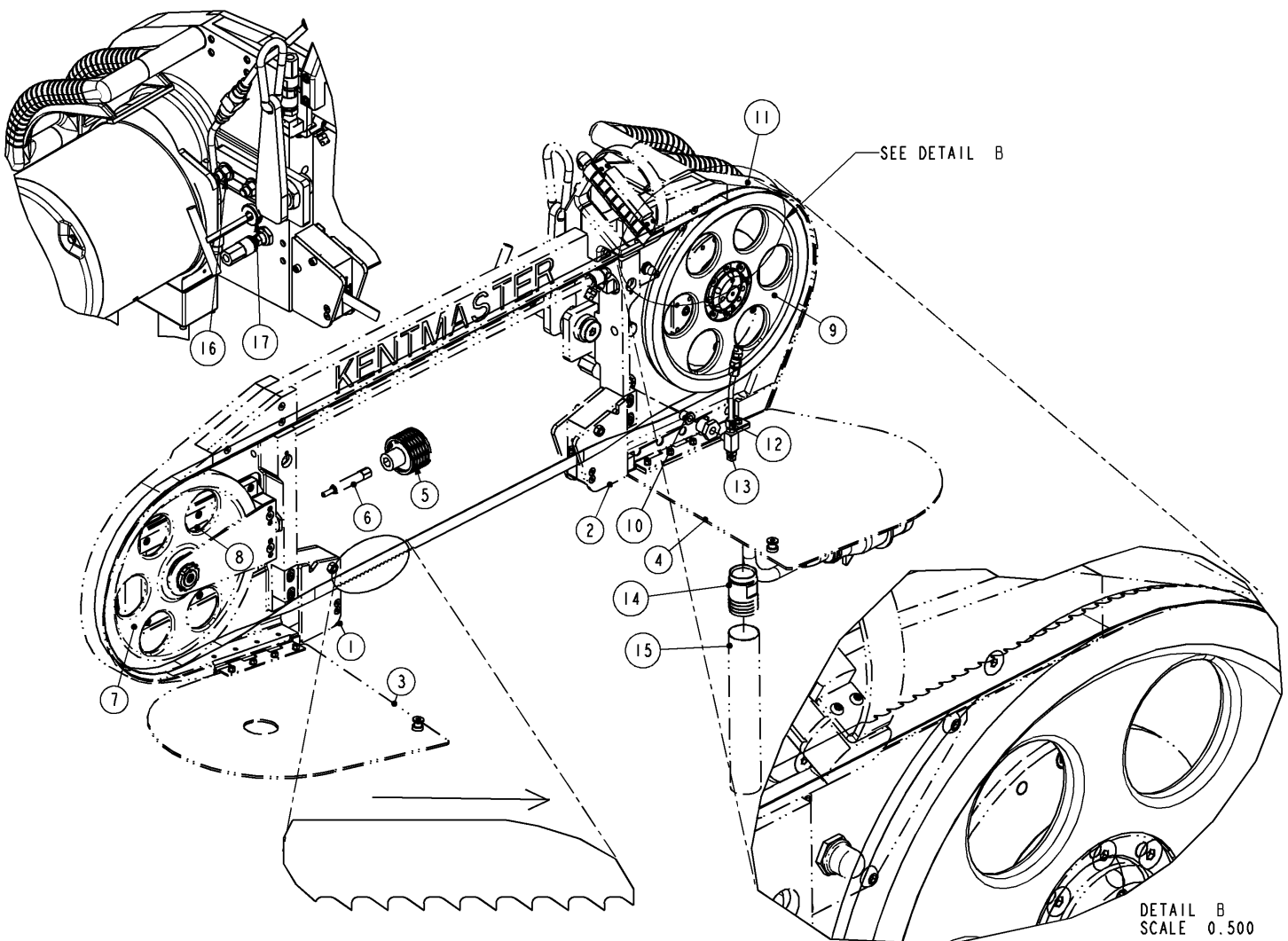
- C. USE FLAT BLADE SCREWDRIVER TO ADJUST THE FOUR (4) SET SCREWS UNDER WRENCH HANDLE. USE A STAGGERED PATTERN WHILE ADJUSTING, SUCH AS UPPER, LOWER, LEFT THEN RIGHT.
  - TO REDUCE TORQUE VALUE - BACK OFF SET SCREWS COUNTER-CLOCKWISE ABOUT 1/8 TURN EACH.
  - TO INCREASE TORQUE VALUE - TURN IN SET SCREWS CLOCKWISE ABOUT 1/8 TURN EACH.
- D. REASSEMBLE TORQUE WRENCH WITH HANDLE AND GASKET. RETEST PER STEP 1. CONTINUE TESTING AND SETTING UNTIL WRENCH OPERATES AT PROPER TORQUE VALUE.

## HANGER

THE SAW HANGER INCORPORATES TWO (2) ADJUSTMENT FEATURES. ADJUSTMENT "H" (HORIZONTAL) SHIFTS WEIGHT OF SAW FROM FRONT TO REAR ACCORDING TO OPERATOR PREFERENCE. WEIGHT OF SAW SHOULD BE ADJUSTED SO THAT NOSE OF SAW IS TIPPED DOWN SLIGHTLY FOR BETTER OPERATOR CONTROL. TO ADJUST, LOOSEN TWO (2) SCREWS, ITEMS 16, AND ADJUST ACCORDINGLY.

ADJUSTMENT "V" (VERTICAL) SHIFTS WEIGHT OF SAW FROM RIGHT TO LEFT, AFFECTING BLADE PATH AND STRAIGHTNESS OF CUT. NO ADJUSTMENT SHOULD BE REQUIRED AS MACHINES ARE ADJUSTED AT FACTORY FOR WEIGHT DISTRIBUTION FROM SIDE TO SIDE. IF THERE IS "SOFT-SIDING" OF CARCASS RESULTING FROM BLADE CUTTING TO LEFT OR RIGHT OF CENTERLINE, MAKE ADJUSTMENT AS FOLLOWS:

- **CUTTING EXCESSIVELY TO RIGHT** -- WITH A 3/8" HEX WRENCH, TURN SHAFT, ITEM 17, COUNTER-CLOCKWISE.
- **CUTTING EXCESSIVELY TO LEFT** -- WITH A 3/8" HEX WRENCH, TURN SHAFT, ITEM 17, CLOCKWISE.



**Figure 1 BM-V-**

## **TROUBLE SHOOTING HINTS:**

- BE SURE DRIVE WHEEL IS TURNING COUNTER-CLOCKWISE (CCW) AND BLADE IS INSTALLED WITH TEETH POINTED TOWARD DRIVE FRAME.
- BE SURE BLADE TEETH ARE SITTING ABOVE UNDERCUT ON BOTH WHEELS SO AS NOT TO AFFECT SET OF TEETH.
- CHECK GAP BETWEEN CARBIDE INSERTS WHICH MUST NOT BE TOO TIGHT OR TOO LOOSE. BLADE SHOULD SLIDE THROUGH WITHOUT PLAY. MAKE ADJUSTMENT IF NECESSARY.
- REPLACE SAW BLADE IN CASE BLADE IS DEFECTIVE.
- ADJUST SAW HANGER (ADJUSTMENT "V") IF SAW CUTS OFF CENTER TO RIGHT OR LEFT.
- ADJUST HANGER ("H" ADJUSTMENT) IF SAW NOSE RISES TOO EASILY AND ADDITIONAL WEIGHT MUST BE SHIFTED FORWARD.
- BE SURE SAW IS NOT DROPPING DOWN TOO QUICKLY. ADJUST BALANCER.
- BLADE OVER OR UNDER TORQUED. CHECK TORQUE WRENCH CALIBRATION.

### **BAD SPLIT**

### **UNEVEN SPLIT**

### **CUTS TO LEFT OR RIGHT**

- 
- CHECK IF BLADE IS BREAKING AT WELD. BLADE MAY BE DEFECTIVE.
  - WHEELS SLIPPING IN BLADE (EVIDENT BY VERY SHINY BLADE SURFACE). CHECK FOR INCORRECT TORQUE SETTING. CHECK TORQUE WRENCH CALIBRATION.
  - OPERATOR PUSHING SAW THROUGH BEEF EXCESSIVELY.
  - BLADE OVER OR UNDER TORQUED. CHECK TORQUE WRENCH CALIBRATION.
  - CHECK FOR PROPER GAP (.025"-.028", .64-.71mm) BETWEEN CARBIDE INSERTS.

### **PREMATURE BLADE CRACKING OR BREAKING**

- 
- CHECK FOR BONE DUST BUILD-UP AT GUIDES. CLEAN OUT AND INCREASE WATER FLOW IF NECESSARY.
  - CHECK IF BLADE IS SLIPPING ON WHEELS. LOOK FOR CAUSE AND CORRECT.
  - CHECK FOR PROPER GAP (.025"-.028", .64-.71mm) BETWEEN CARBIDE INSERTS. GAP MAY BE TOO TIGHT, CAUSING INSERTS TO MACHINE SIDES OF BLADE.
  - CHECK FOR CHIPPED OR CRACKED CARBIDE INSERTS AT BLADE GUARD ASSEMBLIES. ROTATE OR REPLACE IF NECESSARY.
  - WITH BLADE REMOVED, CHECK TAKE-UP WHEEL TO BE SURE IT SPINS FREELY.

### **BLACK APPEARS ON BACKBONE**

- 
- CHECK WHEELS FOR PLAY, LOOSENESS OR LOOSE SCREWS OR NUTS. CHECK TAKE-UP WHEEL BRACKET, TIGHTEN AND CORRECT PLAY.
  - CHECK WHEEL BEARINGS AND REPLACE IF DEFECTIVE.

### **BLADE SLIPS OFF WHEELS**

- CHECK WHEELS FOR ROUNDNESS AND WEAR. BE SURE WHEEL FACES ARE NOT TAPERED OR HAVE FLAT SPOTS DUE TO WEAR. REPLACE IF DEFECTIVE.
- CHECK TAKE-UP WHEEL FOR PROPER TORQUE SETTING.
- LOOK FOR ANY BLADE OBSTRUCTIONS.

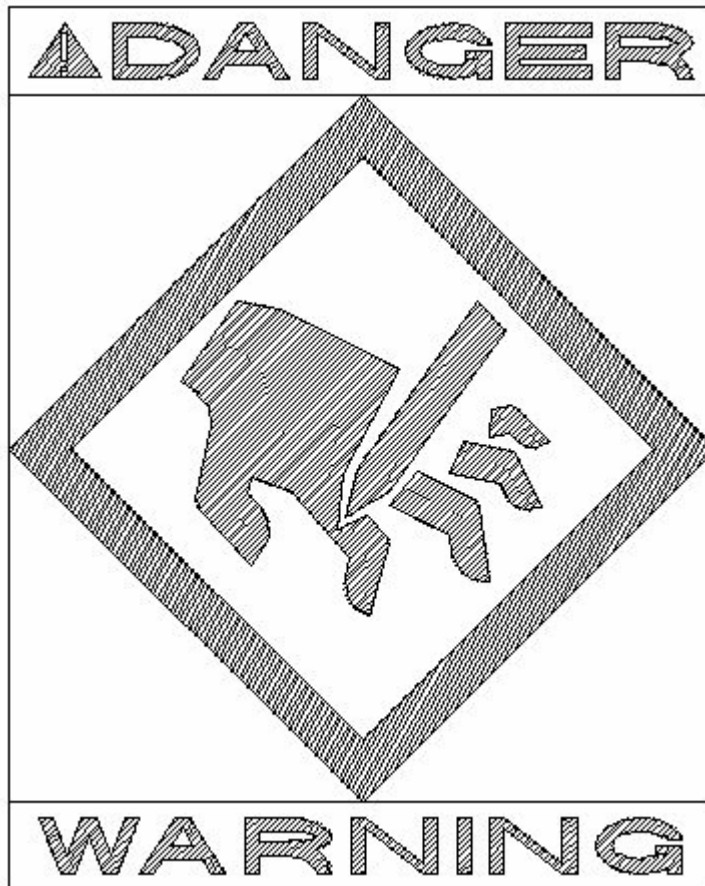
- CHANGE SAW BLADE. BLADE MAY BE DEFECTIVE.

**MOTOR PULLS EXCESSIVE  
AMPERAGE (WITHOUT LOAD)  
OR  
BLADE IS TOO LOOSE WHILE  
TORQUE WRENCH IS  
PROPERLY CALIBRATED**

- REMOVE BLADE FROM MACHINE. BACK OFF SCREW, ITEM 6, WITH TORQUE WRENCH. GRAB TAKE-UP WHEEL WITH BOTH HANDS AND SLIDE BACK AND FORTH. IT SHOULD SLIDE FREELY. IF IT BINDS OR TAKES EXCESSIVE EFFORT, DISASSEMBLE COMPLETELY. CHECK TO SEE IF GIBS LOCATED ON EACH SIDE OF SLIDE ARE TOO CLOSE AND TIGHT AGAINST SLIDE. LOOSEN SCREWS THAT HOLD GIB IN PLACE. SPREAD GIBS SLIGHTLY OUT AND RETIGHTEN SCREWS. SLIDE SHOULD MOVE BACK AND FORTH FREELY, BUT WITHOUT UP AND DOWN PLAY. REASSEMBLE AND TEST MACHINE. LUBRICATE SURFACES BETWEEN SLIDE AND GIB.

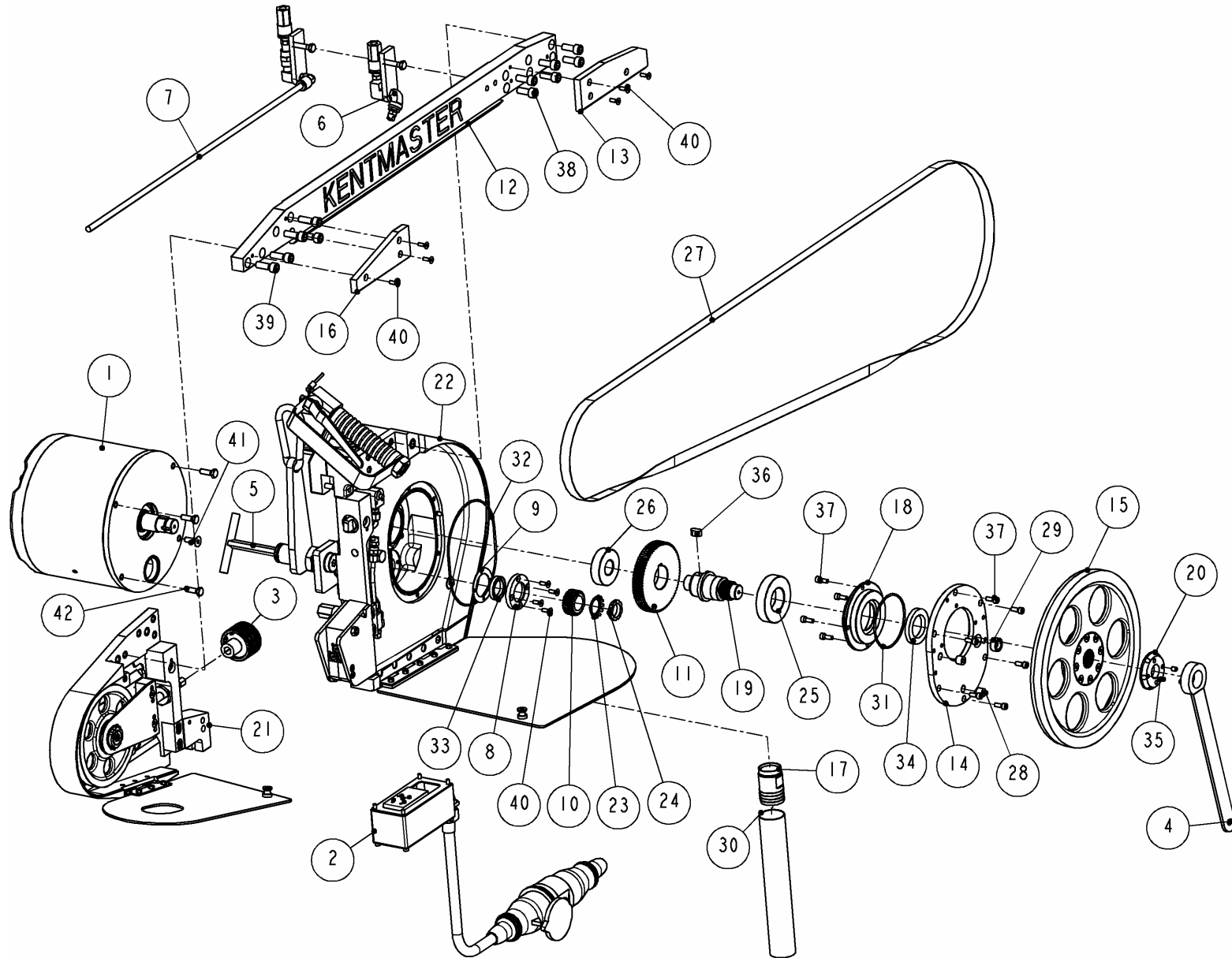
## **SERVICE**

1. KEEP GOOD RECORDS OF ALL SERVICE ACTIVITY AND INCLUDE TOOL IN PREVENTIVE MAINTENANCE PROGRAM.
2. USE ONLY GENUINE KENTMASTER REPLACEMENT PARTS TO ASSURE PROPER PERFORMANCE OF TOOL.
3. CONTACT THE KENTMASTER SUPPLIER NEAREST YOU FOR PARTS AND CUSTOMER SERVICE INFORMATION.



## **PARTS BOOK**

### **MODELS MAIN ASSEMBLIES**



**Figure 2 MODELS BM-V- WITH AIR**

KENTMASTER MFG. CO., INC. 1801 SOUTH MOUNTAIN AVE., MONROVIA, CALIFORNIA 91016 UNITED STATES OF AMERICA

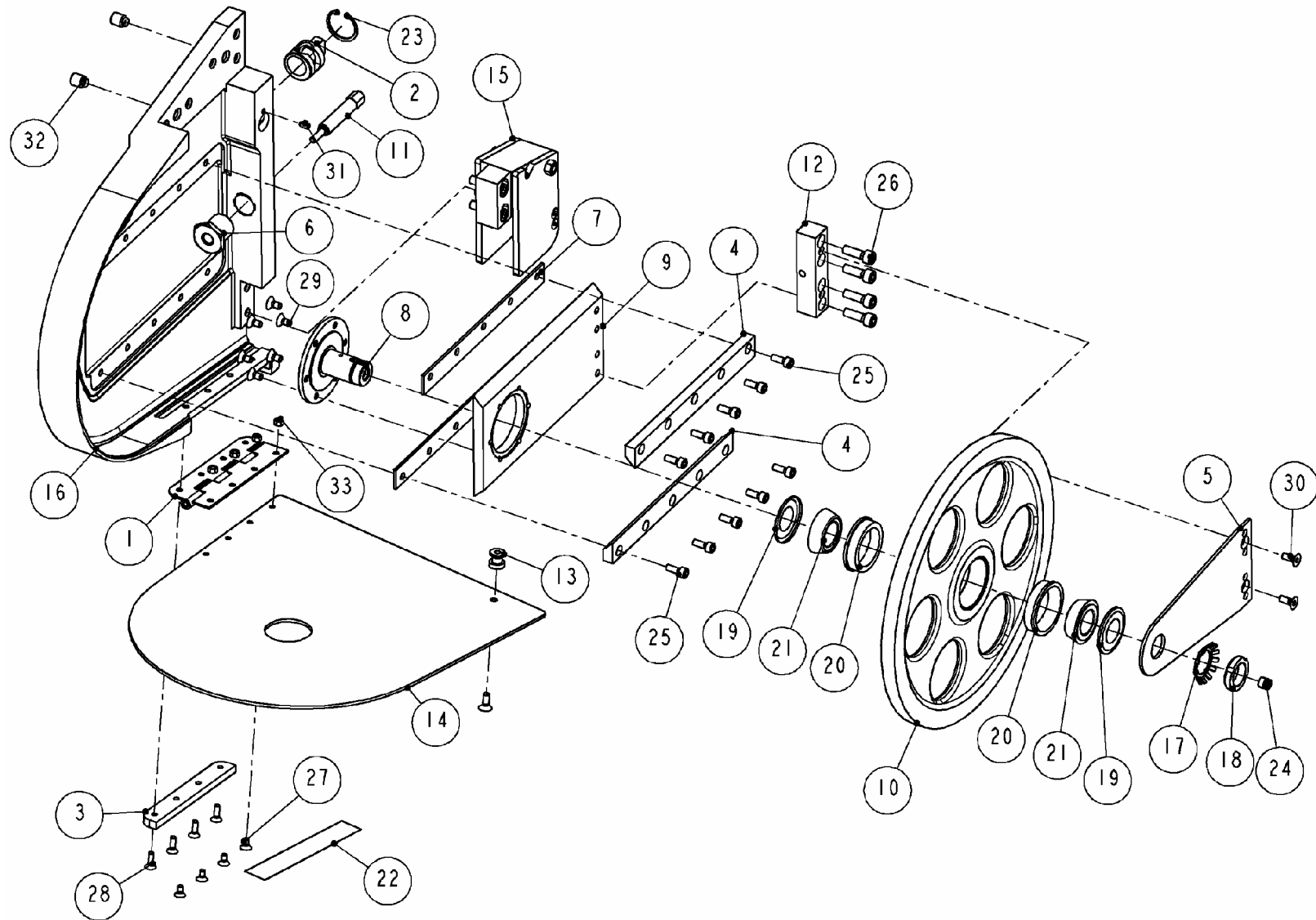
☎ TELEPHONE: (626) 359-8888 FAX: (626) 303-5151

| BENDMASTER BM-V-___ w/AIR |                |                                       | 1731000 | 1708300 | 1708200 | 1708250 |
|---------------------------|----------------|---------------------------------------|---------|---------|---------|---------|
| ITEM                      | PART #         | DESCRIPTION                           | BMV-SDB | BM-V-SD | BM-V-S  | BM-V-SB |
|                           |                |                                       | QTY     | QTY     | QTY     | QTY     |
| 1                         | <b>OPTIONS</b> | 2HP MOTOR ASSEMBLY                    | 1       | 1       | -       | -       |
|                           | <b>OPTIONS</b> | 3HP MOTOR ASSEMBLY                    | 1       | 1       | 1       | 1       |
|                           | <b>OPTIONS</b> | 5HP MOTOR ASSEMBLY                    | -       | -       | 1       | 1       |
| 2                         | 1720050        | POWER SUPPLY, 42V, ATD, AIR           | 1       | 1       | 1       | 1       |
|                           | 1720010        | POWER SUPPLY, 42V, NO ATD, AIR        | 1       | 1       | 1       | 1       |
|                           | 1720040        | POWER SUPPLY, NON 42V, ATD, AIR       | 1       | 1       | 1       | 1       |
|                           | 1720030        | POWER SUPPLY, NON 42V, NO ATD, AIR    | 1       | 1       | 1       | 1       |
|                           | 1720007        | POWER SUPPLY, 1 PHASE 115/230V, AIR   | 1       | 1       | -       | -       |
| 3                         | 1700900        | TORQUE WRENCH / <b>TOOL</b>           | 1       | 1       | 1       | 1       |
| 4                         | 4501610        | WRENCH / <b>TOOL</b>                  | 1       | 1       | 1       | 1       |
| 5                         | 1709790        | WRENCH, ADJUSTMENT / <b>TOOL</b>      | 1       | 1       | 1       | 1       |
| 6                         | 1710897        | EXTERNAL SPRAY ASSEMBLY               | 1       | 1       | 1       | 1       |
| 7                         | 1709890        | SPRAY TUBE ASSEMBLY - <b>OPTIONAL</b> | 1       | 1       | 1       | -       |
|                           | 1709910        | SPRAY TUBE ASSEMBLY - <b>OPTIONAL</b> | -       | -       | -       | 1       |
| 8                         | 1704130        | CAP                                   | 1       | 1       | 1       | 1       |
| 9                         | 1704220        | GASKET                                | 1       | 1       | 1       | 1       |
| 10                        | 1705590        | GEAR, DRIVE /w 2HP MOTOR 50/60 Hz     | 1       | 1       | -       | -       |
|                           | 1704150        | GEAR, DRIVE /w 3HP/5HP MOTOR 60Hz     | 1       | 1       | 1       | 1       |
|                           | 1704430        | GEAR, DRIVE /w 3HP/5HP MOTOR 50Hz     | 1       | 1       | 1       | 1       |
| 11                        | 1705850        | GEAR, DRIVEN /w 2HP MOTOR 50/60 Hz    | 1       | 1       | -       | -       |
|                           | 1707340        | GEAR, DRIVEN /w 3HP/5HP MOTOR 60Hz    | 1       | 1       | 1       | 1       |
|                           | 1707350        | GEAR, DRIVEN /w 3HP/5HP MOTOR 50Hz    | 1       | 1       | 1       | 1       |
| 12                        | 1708420        | BEAM                                  | 1       | 1       | 1       | -       |
|                           | 1708820        | BEAM                                  | -       | -       | -       | 1       |
| 13                        | 1708430        | COVER, BEAM -DRIVE SIDE               | 1       | 1       | 1       | -       |
|                           | 1709600        | COVER, BEAM - DRIVE SIDE - BM-V-SB    | -       | -       | -       | 1       |
| 14                        | 1708460        | COVER, GEAR                           | 1       | 1       | 1       | 1       |
| 15                        | 1708500        | DRIVE WHEEL ASSEMBLY                  | 1       | 1       | 1       | -       |
|                           | 1708790        | DRIVE WHEEL ASSEMBLY                  | -       | -       | -       | 1       |
| 16                        | 1708610        | COVER, BEAM – TAKE-UP SIDE            | 1       | 1       | 1       | 1       |
| 17                        | 1708840        | FITTING FOR DISCHARGE HOSE            | 1       | 1       | 1       | 1       |
| 18                        | 1709620        | FLANGE, FRONT                         | 1       | 1       | 1       | 1       |
| 19                        | 1709630        | SHAFT - DRIVE                         | 1       | 1       | 1       | 1       |
| 20                        | 1710070        | NUT, DRIVE WHEEL                      | 1       | 1       | 1       | 1       |
| 21                        | 1730011        | TAKE-UP SIDE ASSEMBLY - BM-V-SDB      | 1       | -       | -       | -       |
|                           | 1709197        | TAKE-UP SIDE ASSEMBLY - BM-V-SD       | -       | 1       | -       | -       |
|                           | 1709194        | TAKE-UP SIDE ASSEMBLY - BM-V-S        | -       | -       | 1       | -       |
|                           | 1709505        | TAKE-UP SIDE ASSEMBLY - BM-V-SB       | -       | -       | -       | 1       |
| 22                        | 1731010        | DRIVE SIDE ASSEMBLY - BM-V-SDB        | 1       | -       | -       | -       |
|                           | 1709198        | DRIVE SIDE ASSEMBLY - BM-V-SD         | -       | 1       | -       | -       |
|                           | 1708241        | DRIVE SIDE ASSEMBLY - BM-V-S          | -       | -       | 1       | -       |
|                           | 1708807        | DRIVE SIDE ASSEMBLY - BM-V-SB         | -       | -       | -       | 1       |
| 23                        | 3000090        | LOCKWASHER                            | 1       | 1       | 1       | 1       |
| 24                        | 3001090        | LOCKNUT                               | 1       | 1       | 1       | 1       |
| 25                        | 3200080        | BEARING                               | 1       | 1       | 1       | 1       |

|                                  |               |                    |                |                |                |                |
|----------------------------------|---------------|--------------------|----------------|----------------|----------------|----------------|
| 26                               | 3316050       | BEARING            | 1              | 1              | 1              | 1              |
| 27                               | 4111000       | BLADE - BM-V-SDB   | 1              | -              | -              | -              |
|                                  | 4111020       | BLADE - BM-V-SD    | -              | 1              | -              | -              |
|                                  | 4111030       | BLADE - BM-V-S     | -              | -              | 1              | -              |
|                                  | 4111100       | BLADE - BM-V-SB    | -              | -              | -              | 1              |
| 28                               | 7000020       | PLUG               | 2              | 2              | 2              | 2              |
| 29                               | 7240710       | WINDOW             | 1              | 1              | 1              | 1              |
| 30                               | 7300200       | DISCHARGE HOSE     | 1              | 1              | 1              | 1              |
| 31                               | 7681530       | O-RING             | 1              | 1              | 1              | 1              |
| 32                               | 7681650       | O-RING             | 1              | 1              | 1              | 1              |
| 33                               | 7798170       | SEAL               | 1              | 1              | 1              | 1              |
| 34                               | 7798220       | SEAL               | 1              | 1              | 1              | 1              |
| 35                               | 8311030       | SET SCREW          | 2              | 2              | 2              | 2              |
| 36                               | 8607060       | KEY                | 1              | 1              | 1              | 1              |
| 37                               | 9211050       | SCREW              | 10             | 10             | 10             | 10             |
| 38                               | 9215080       | SCREW              | 6              | 6              | 6              | 6              |
| 39                               | 9215100       | SCREW              | 5              | 5              | 5              | 5              |
| 40                               | 9239050       | SCREW              | 10             | 10             | 10             | 10             |
| 41                               | 9243080       | SCREW              | 1              | 1              | 1              | 1              |
| 42                               | 9413070       | SCREW              | 3              | 3              | 3              | 3              |
| <b>ITEM</b>                      | <b>PART #</b> | <b>DESCRIPTION</b> | <b>QTY</b>     | <b>QTY</b>     | <b>QTY</b>     | <b>QTY</b>     |
| <b>BENDMASTER BM-V-___ w/AIR</b> |               |                    | <b>1731000</b> | <b>1708300</b> | <b>1708200</b> | <b>1708250</b> |
|                                  |               |                    | <b>BMV-SDB</b> | <b>BM-V-SD</b> | <b>BM-V-S</b>  | <b>BM-V-SB</b> |

**Figure 3 BOM FOR MODELS BM-V-\_\_\_ WITH AIR**

**TAKE-UP SIDE ASSEMBLY**



**Figure 4 TAKE-UP SIDE ASSEMBLY**

**KENTMASTER MFG. CO., INC.** 1801 SOUTH MOUNTAIN AVE., MONROVIA, CALIFORNIA 91016 UNITED STATES OF AMERICA

☎ TELEPHONE: (626) 359-8888 FAX: (626) 303-5151

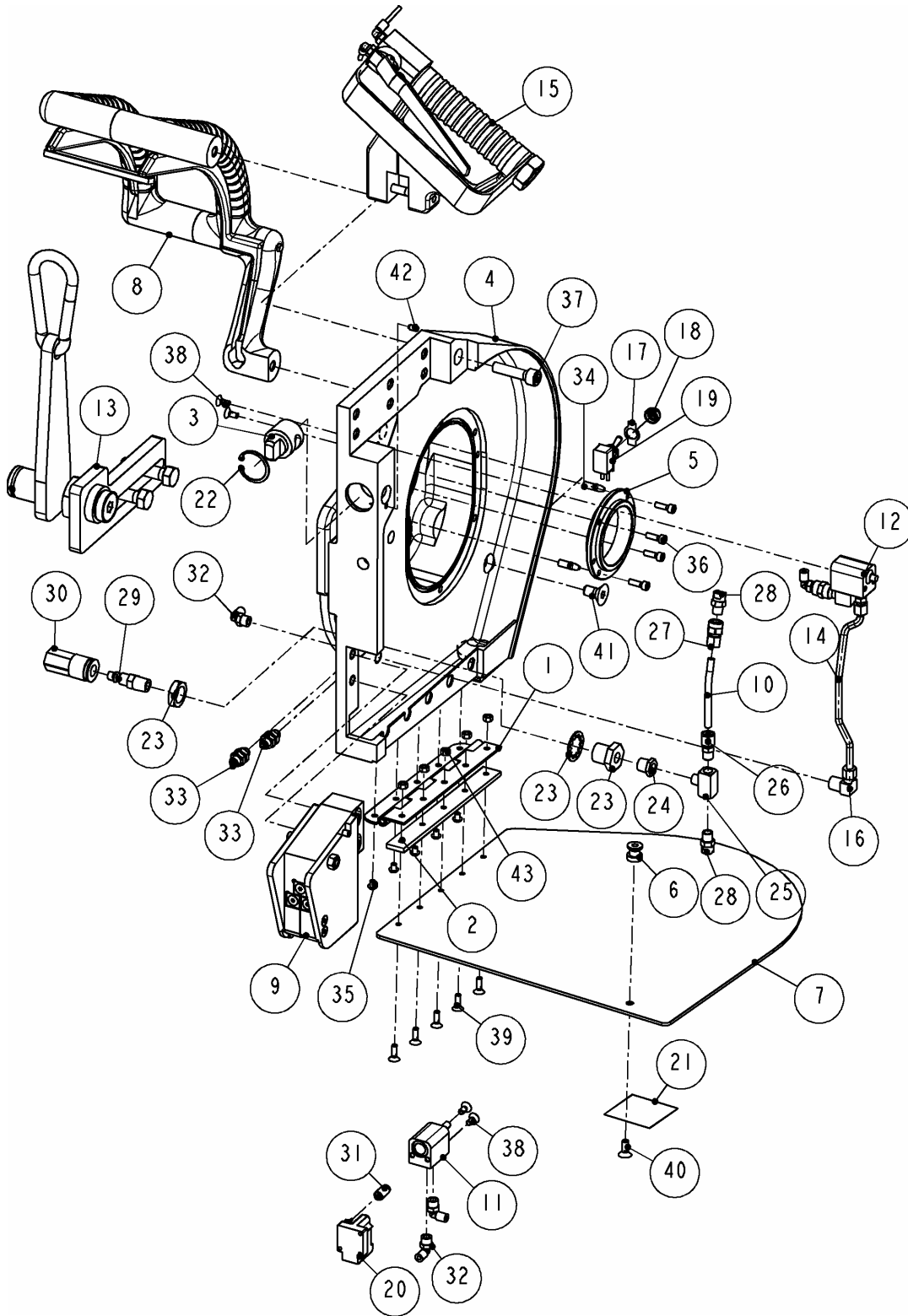
| ITEM | PART #  | TAKE-UP SIDE ASSEMBLY    | 1730011                  | 1709197                 | 1709194                | 1709505                 |
|------|---------|--------------------------|--------------------------|-------------------------|------------------------|-------------------------|
|      |         | DESCRIPTION              | QTY<br>MODEL<br>BM-V-SDB | QTY<br>MODEL<br>BM-V-SD | QTY<br>MODEL<br>BM-V-S | QTY<br>MODEL<br>BM-V-SB |
| 1    | 1704560 | HINGE ASSEMBLY           | -                        | -                       | 1                      | 1                       |
|      | 1709590 | HINGE ASSEMBLY           | 1                        | 1                       | -                      | -                       |
| 2    | 1704670 | KNOB                     | 1                        | 1                       | 1                      | 1                       |
| 3    | 1704710 | PLATE                    | -                        | -                       | 1                      | 1                       |
|      | 1709570 | PLATE                    | 1                        | 1                       | -                      | -                       |
| 4    | 1704780 | GIB                      | -                        | -                       | 2                      | 2                       |
|      | 1709550 | GIB                      | 2                        | 2                       | -                      | -                       |
| 5    | 1704790 | HOLDER, SHAFT            | -                        | -                       | 1                      | 1                       |
|      | 1706360 | HOLDER, SHAFT            | 1                        | 1                       | -                      | -                       |
| 6    | 1704800 | INSERT, ADJUSTABLE SCREW | 1                        | 1                       | 1                      | 1                       |
| 7    | 1704810 | SPACER                   | -                        | -                       | 2                      | 2                       |
|      | 1709560 | SPACER                   | 2                        | 2                       | -                      | -                       |
| 8    | 1708470 | SHAFT                    | 1                        | 1                       | 1                      | 1                       |
| 9    | 1708490 | SLIDE                    | -                        | -                       | 1                      | 1                       |
|      | 1708930 | SLIDE                    | 1                        | 1                       | -                      | -                       |
| 10   | 1708530 | WHEEL, TAKE-UP           | -                        | -                       | 1                      | 1                       |
|      | 1708710 | WHEEL, TAKE-UP           | -                        | 1                       | -                      | -                       |
|      | 1730220 | WHEEL, TAKE-UP           | 1                        | -                       | -                      | -                       |
| 11   | 1708560 | SCREW, ADJUSTABLE        | -                        | -                       | 1                      | 1                       |
|      | 1709530 | SCREW, ADJUSTABLE        | 1                        | 1                       | -                      | -                       |
| 12   | 1708570 | BLOCK, SLIDE             | 1                        | 1                       | 1                      | 1                       |
| 13   | 1708590 | CATCH                    | 1                        | 1                       | 1                      | 1                       |
| 14   | 1708600 | COVER                    | -                        | -                       | 1                      | 1                       |
|      | 1708900 | COVER                    | -                        | 1                       | -                      | -                       |
|      | 1730230 | COVER                    | 1                        | -                       | -                      | -                       |
| 15   | 1709090 | BLADE GUIDE ASSEMBLY     | -                        | -                       | 1                      | 1                       |
|      | 1709340 | BLADE GUIDE ASSEMBLY     | 1                        | 1                       | -                      | -                       |
| 16   | 1709500 | FRAME, TAKE-UP SIDE      | -                        | -                       | -                      | 1                       |
|      | 1708410 | FRAME, TAKE-UP SIDE      | -                        | -                       | 1                      | -                       |
|      | 1708850 | FRAME, TAKE-UP SIDE      | -                        | 1                       | -                      | -                       |
|      | 1730210 | FRAME, TAKE-UP SIDE      | 1                        | -                       | -                      | -                       |
| 17   | 3000080 | LOCKWASHER               | 1                        | 1                       | 1                      | 1                       |
| 18   | 3001500 | LOCKNUT                  | 1                        | 1                       | 1                      | 1                       |
| 19   | 3005280 | NILOS RING               | 2                        | 2                       | 2                      | 2                       |
| 20   | 3650590 | BEARING CUP              | 2                        | 2                       | 2                      | 2                       |
| 21   | 3650960 | TAPER BEARING CONE       | 2                        | 2                       | 2                      | 2                       |
| 22   | 4505020 | LABEL, DANGER/WARNING    | 1                        | 1                       | 1                      | 1                       |
| 23   | 5001250 | RETAINING RING           | 1                        | 1                       | 1                      | 1                       |
| 24   | 7018150 | FITTING - LUBE           | 1                        | 1                       | 1                      | 1                       |
| 25   | 9211050 | SCREW                    | 6                        | 6                       | 10                     | 10                      |
| 26   | 9213080 | SCREW                    | 4                        | 4                       | 4                      | 4                       |
| 27   | 9239030 | SCREW                    | 3                        | 3                       | 4                      | 4                       |
| 28   | 9239050 | SCREW                    | 3                        | 3                       | 4                      | 4                       |
| 29   | 9241030 | SCREW                    | 6                        | 6                       | 6                      | 6                       |
| 30   | 9241050 | SCREW                    | 3                        | 3                       | 3                      | 3                       |
| 31   | 9333000 | SET SCREW                | 1                        | 1                       | 1                      | 1                       |
| 32   | 9333070 | SET SCREW                | 2                        | 2                       | 2                      | 2                       |
| 33   | 9500090 | NUT                      | 3                        | 3                       | 4                      | 4                       |

**TAKE-UP WHEEL ADJUSTMENT**

TAKE-UP WHEEL, ITEM 10, MUST TURN FREELY BUT WITHOUT EXCESSIVE PLAY OR LOOSENESS. ELIMINATE EXCESSIVE PLAY BY TIGHTENING NUT, ITEM 18, AT CENTAR OF TAKE-UP WHEEL.

**Figure 5 TAKE-UP SIDE ASSEMBLY BOM**

**DRIVE SIDE ASSEMBLY - AIR**



**Figure 6 DRIVE SIDE ASSEMBLY - AIR**

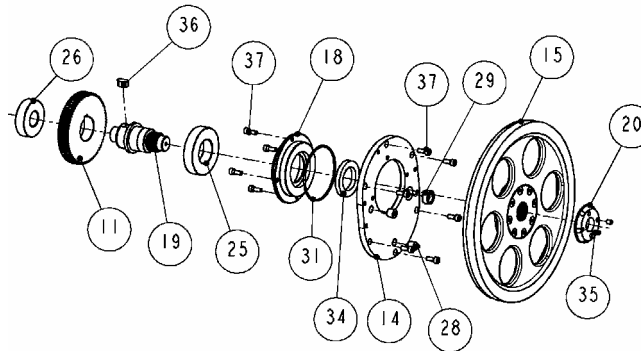
| DRIVE SIDE ASSEMBLY, AIR |         |                         | 1731010  | 1709198 | 1708241 | 1708807 |
|--------------------------|---------|-------------------------|----------|---------|---------|---------|
| ITEM                     | PART #  | DESCRIPTION             | BM-V-SDB | BM-V-SD | BM-V-S  | BM-V-SB |
|                          |         |                         | QTY      | QTY     | QTY     | QTY     |
| 1                        | 1704650 | HINGE ASSEMBLY          | 1        | 1       | 1       | -       |
|                          | 1705540 | HINGE ASSEMBLY          | -        | -       | -       | 1       |
| 2                        | 1704660 | SPACER, HINGE           | 1        | 1       | 1       | -       |
|                          | 1705560 | SPACER, HINGE           | -        | -       | -       | 1       |
| 3                        | 1704670 | KNOB                    | 1        | 1       | 1       | 1       |
| 4                        | 1709371 | FRAME, DRIVE SIDE       | 1        | 1       | -       | -       |
|                          | 1708401 | FRAME, DRIVE SIDE       | -        | -       | 1       | -       |
|                          | 1708801 | FRAME, DRIVE SIDE       | -        | -       | -       | 1       |
| 5                        | 1708550 | FLANGE, REAR            | 1        | 1       | 1       | 1       |
| 6                        | 1708590 | CATCH                   | 1        | 1       | 1       | 1       |
| 7                        | 1708690 | COVER, DRIVE SIDE       | 1        | 1       | 1       | -       |
|                          | 1708780 | COVER, DRIVE SIDE       | -        | -       | -       | 1       |
| 8                        | 1708806 | REAR HANDLE ASSEMBLY    | 1        | 1       | 1       | 1       |
| 9                        | 1709101 | BLADE GUIDE ASSEMBLY    | 1        | -       | -       | -       |
|                          | 1709100 | BLADE GUIDE ASSEMBLY    | -        | 1       | 1       | 1       |
| 10                       | 1709661 | TUBE                    | 1        | 1       | 1       | 1       |
| 11                       | 1709680 | AIR SWITCH ASSEMBLY     | 1        | 1       | 1       | 1       |
| 12                       | 1709690 | AIR SWITCH ASSEMBLY     | 1        | 1       | 1       | 1       |
| 13                       | 1709773 | HANGER ASSEMBLY - SHORT | 1        | 1       | -       | -       |
|                          | 1709774 | HANGER ASSEMBLY - LONG  | -        | -       | 1       | 1       |
| 14                       | 1710120 | TUBE                    | 1        | 1       | -       | -       |
|                          | 1710121 | TUBE                    | -        | -       | 1       | 1       |
| 15                       | 1710140 | AIR HANDLE ASSEMBLY     | 1        | 1       | 1       | 1       |
| 16                       | 1710160 | ELBOW                   | 1        | 1       | 1       | 1       |
| 17                       | 2000130 | ON-OFF PLATE            | 1        | 1       | 1       | 1       |
| 18                       | 2000140 | BOOT, TOGGLE SWITCH     | 1        | 1       | 1       | 1       |
| 19                       | 2000150 | ON/OFF SWITCH           | 1        | 1       | 1       | 1       |
| 20                       | 2009050 | SWITCH - AIR / ELECTRIC | 1        | 1       | 1       | 1       |
| 21                       | 4505030 | LABEL, ELECTRIC WARNING | 1        | 1       | 1       | 1       |
| 22                       | 5001250 | RETAINING RING          | 1        | 1       | 1       | 1       |
| 23                       | 7001270 | BULKHEAD COUPLING       | 1        | 1       | 1       | 1       |
| 24                       | 7003650 | PIPE BUSHING            | 1        | 1       | 1       | 1       |
| 25                       | 7004400 | TEE                     | 1        | 1       | 1       | 1       |
| 26                       | 7011230 | CONNECTOR               | 1        | 1       | 1       | -       |
| 27                       | 7011530 | CONNECTOR               | 1        | 1       | 1       | -       |
| 28                       | 7011650 | SPRAY NOZLE             | 2        | 2       | 2       | 2       |
| 29                       | 7034070 | MALE PLUG               | 1        | 1       | 1       | 1       |
| 30                       | 7034090 | SOCKET                  | 1        | 1       | 1       | 1       |
| 31                       | 7036220 | CONNECTOR               | 1        | 1       | 1       | 1       |
| 32                       | 7036510 | ELBOW                   | 3        | 3       | 3       | 2       |
| 33                       | 7038660 | UNION                   | 2        | 2       | 2       | 2       |
| 34                       | 8622500 | DOWEL PIN               | 2        | 2       | 2       | 2       |
| 35                       | 9050020 | SCREW                   | 5        | 5       | 5       | 5       |
| 36                       | 9209050 | SCREW                   | 4        | 4       | 4       | 4       |
| 37                       | 9215120 | SCREW                   | 1        | 1       | 1       | -       |
| 38                       | 9239040 | SCREW                   | 4        | 4       | 4       | 4       |

| ITEM                            | PART #  | DESCRIPTION | QTY             | QTY            | QTY            | QTY            |
|---------------------------------|---------|-------------|-----------------|----------------|----------------|----------------|
| 39                              | 9239050 | SCREW       | 5               | 5              | 5              | 5              |
| 40                              | 9241050 | SCREW       | 1               | 1              | 1              | 1              |
| 41                              | 9245060 | SCREW       | 1               | 1              | 1              | 2              |
| 42                              | 9333000 | SET SCREW   | 1               | 1              | 1              | 1              |
| 43                              | 9500090 | NUT         | 5               | 5              | 5              | 5              |
| <b>DRIVE SIDE ASSEMBLY, AIR</b> |         |             | <b>1731010</b>  | <b>1709198</b> | <b>1708241</b> | <b>1708807</b> |
|                                 |         |             | <b>BM-V-SDB</b> | <b>BM-V-SD</b> | <b>BM-V-S</b>  | <b>BM-V-SB</b> |

**Figure 7 BOM FOR DRIVE SIDE ASSEMBLY WITH AIR**

**TRANSMISSION**

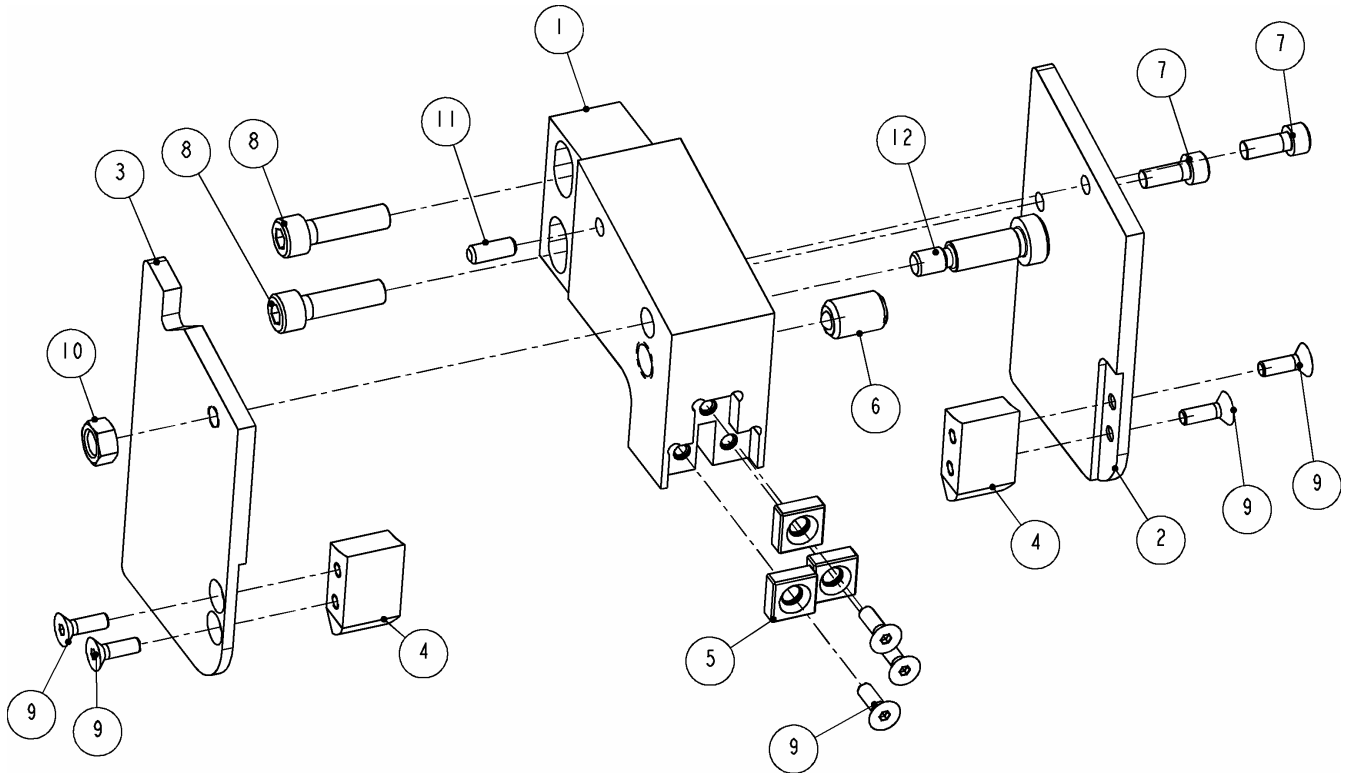
**REFERENCE:** MODEL BM-V-\_\_\_  
FIGURE 2



**Figure 8 TRANSMISSION OVERVIEW**

TRANSMISSION AND SPEED REDUCTION GEARS ARE LOCATED BEHIND DRIVE WHEEL AND CAN BE SERVICED BY OPENING DRIVE WHEEL COVER. A ROUND GLASS SIGHT GAGE IS LOCATED BEHIND DRIVE WHEEL AND CAN BE VIEWED WITHOUT WHEEL REMOVAL. A PLUG IS LOCATED BELOW THE SIGHT GAGE FOR DRAINING AND ANOTHER ABOVE FOR FILLING WITH OIL. PERIODICALLY CHECK OIL LEVEL AND ADD OIL IF LEVEL BELOW SIGHT GAGE WITH SAW IN HORIZONTAL POSITION. IF OIL LOOKS CONTAMINATED WITH WATER, GRITTY OR BROKEN DOWN, DRAIN AND REFILL TO ABOVE SIGHT GAGE WITH HIGH QUALITY GEAR LUBRICANT. WE RECOMMEND MOBILUBE HD 80W-90 SAE 80W-90 GEAR LUBRICANT, MULTI-PURPOSE. TRANSMISSION SHOULD BE FLUSHED OUT AND REFILLED AFTER EVERY 200 HOURS OF OPERATION, AND WHEN OPENED UP FOR MAINTENANCE. THE GEAR LUBRICANT USED SHOULD ALSO BE USED FOR FLUSHING OUT TRANSMISSION.

**BLADE GUIDE ASSEMBLY, TAKE-UP SIDE**



| 1709090: BLADE GUIDE ASSEMBLY, FRONT |         |               |     |
|--------------------------------------|---------|---------------|-----|
| ITEM                                 | PART #  | DESCRIPTION   | QTY |
| 1                                    | 1708630 | GUIDE HOLDER  | 1   |
| 2                                    | 1708640 | REAR GUARD    | 1   |
| 3                                    | 1708650 | FRONT GUARD   | 1   |
| 4                                    | 1709110 | GUIDE         | 2   |
| 5                                    | 8865050 | CARBID INSERT | 3   |
| 6                                    | 8895100 | BALL PLUNGER  | 1   |
| 7                                    | 9211050 | SCREW         | 2   |
| 8                                    | 9213100 | SCREW         | 2   |
| 9                                    | 9239050 | SCREW         | 7   |
| 10                                   | 9501430 | NUT           | 1   |
| 11                                   | 9620450 | PIN           | 1   |
| 12                                   | 9870340 | SCREW         | 1   |

**Figure 9 BLADE GUIDE ASSEMBLY, FRONT (BM-V-S & SB)**

**BLADE GUARD ADJUSTMENTS**

BLADE GUARD CONSISTS OF TWO (2) CARBIDE INSERTS, ITEM 5 FIGURE 9, THROUGH WHICH THE BLADE PASSES, AND A BACK-UP INSERT LOCATED JUST ABOVE THE BLADE. THE INSERTS SHOULD BE CLEANED DAILY AND INSPECTED PERIODICALLY FOR WEAR AND PROPER GAP WIDTH. THE INSERTS MAY BE ROTATED UNTIL ALL FOUR (4) SIDES ARE WORN, AND THEN TURNED OVER FOR AN ADDITIONAL FOUR (4) SIDES. THE BACK-UP INSERT SHOULD BE ROTATED WHEN A GROOVE IS WORN INTO IT OR WEAR IS APPARENT.

**GAP ADJUSTMENT:**

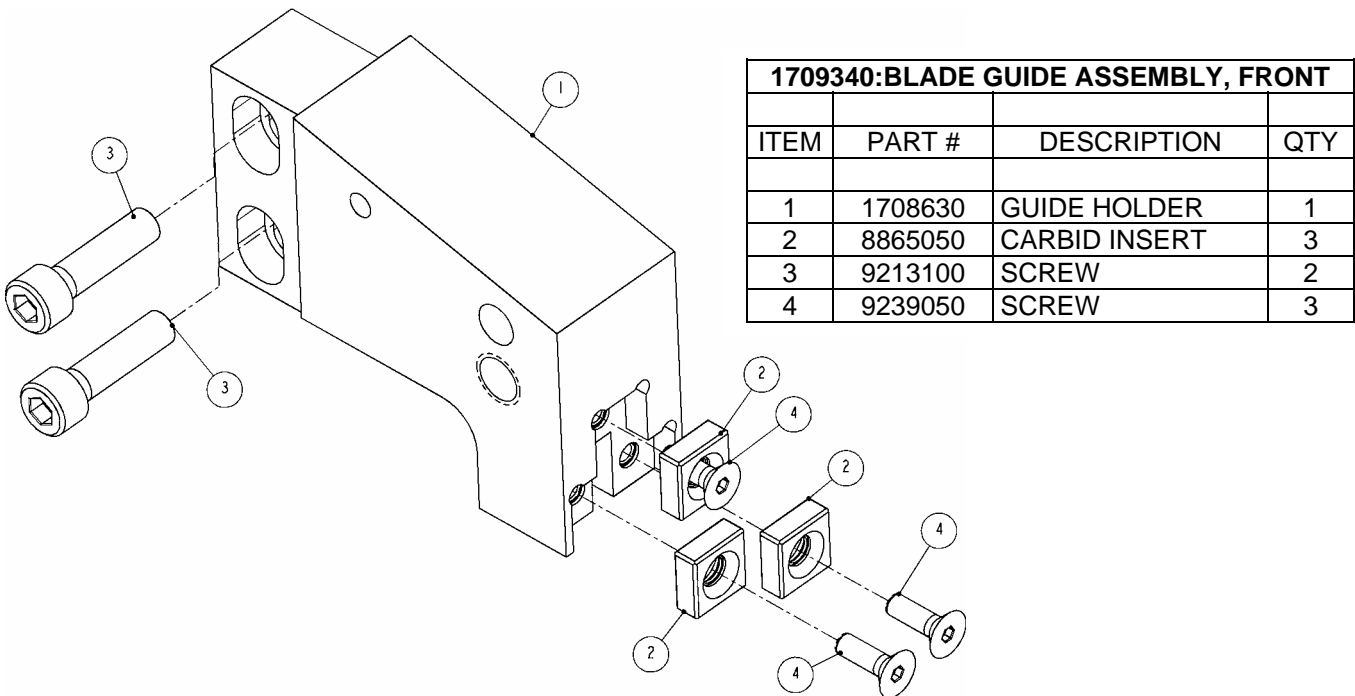
1. REMOVE FOUR (4) SCREWS, ITEM 9, FIGURE 9.
2. CLEAN, LUBRICATE AND ROTATE OR REPLACE INSERTS.

THERE ARE TWO (2) FIBER GUIDES, ITEM 4, LOCATED UNDER INSERTS. THEY HELP KEEP BLADE FROM BEING PULLED OUT OF GAP. REPLACE GUIDES IF EXCESSIVELY WORN.

WITH SAW IN FREE RUNNING CONDITION, CHECK BLADE'S VERTICAL LOCATION BETWEEN INSERTS. PROPER LOCATION IS TOP OF BLADE JUST TOUCHING BACK-UP INSERT.

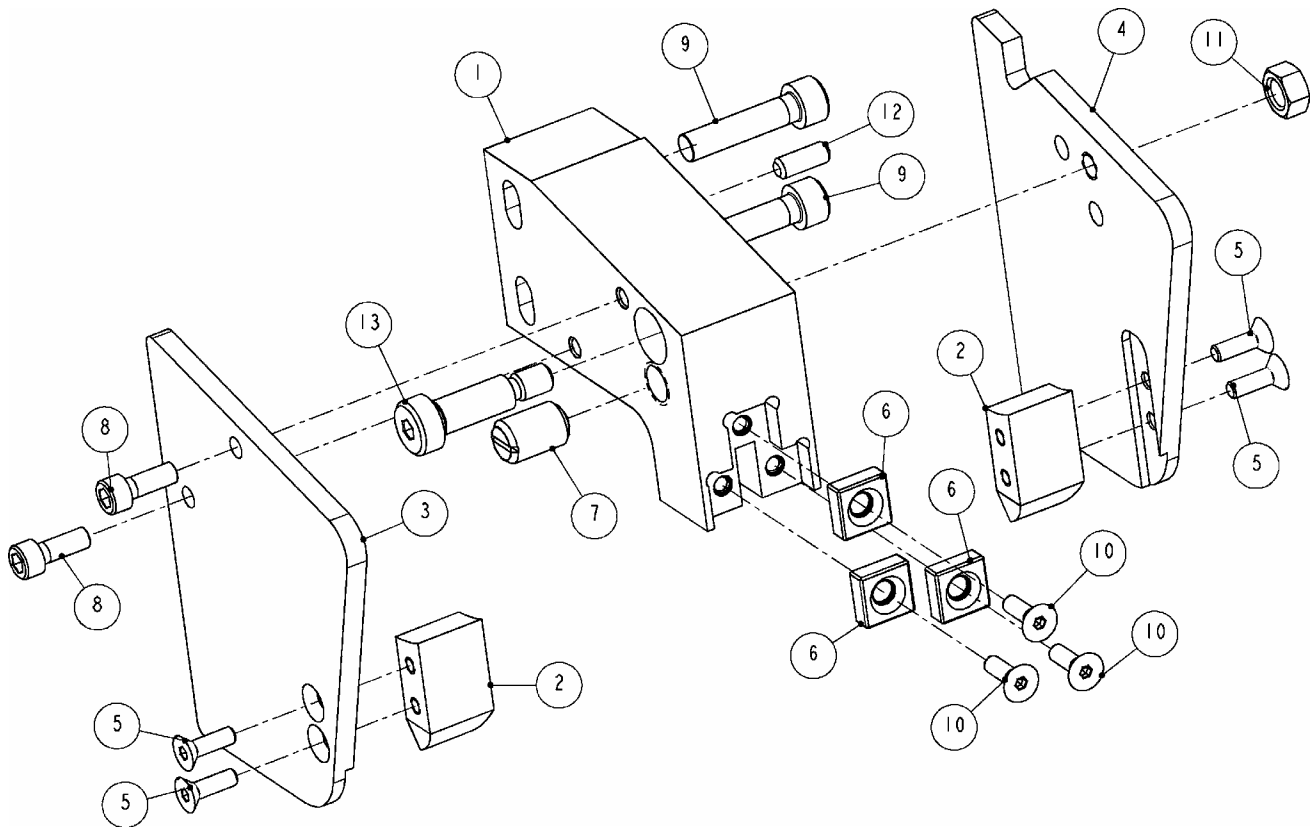
**VERTICAL ADJUSTMENT:**

1. LOOSEN TWO (2) SCREWS, ITEM 8.
2. SLIDE BLADE GUARD UP OR DOWN AS NEEDED.
3. RETIGHTEN SCREWS.



**Figure 10 BLADE GUIDE ASSEMBLY, FRONT (BM-V-SDB & BM-V-SD)**

**BLADE GUIDE ASSEMBLY, DRIVE SIDE**

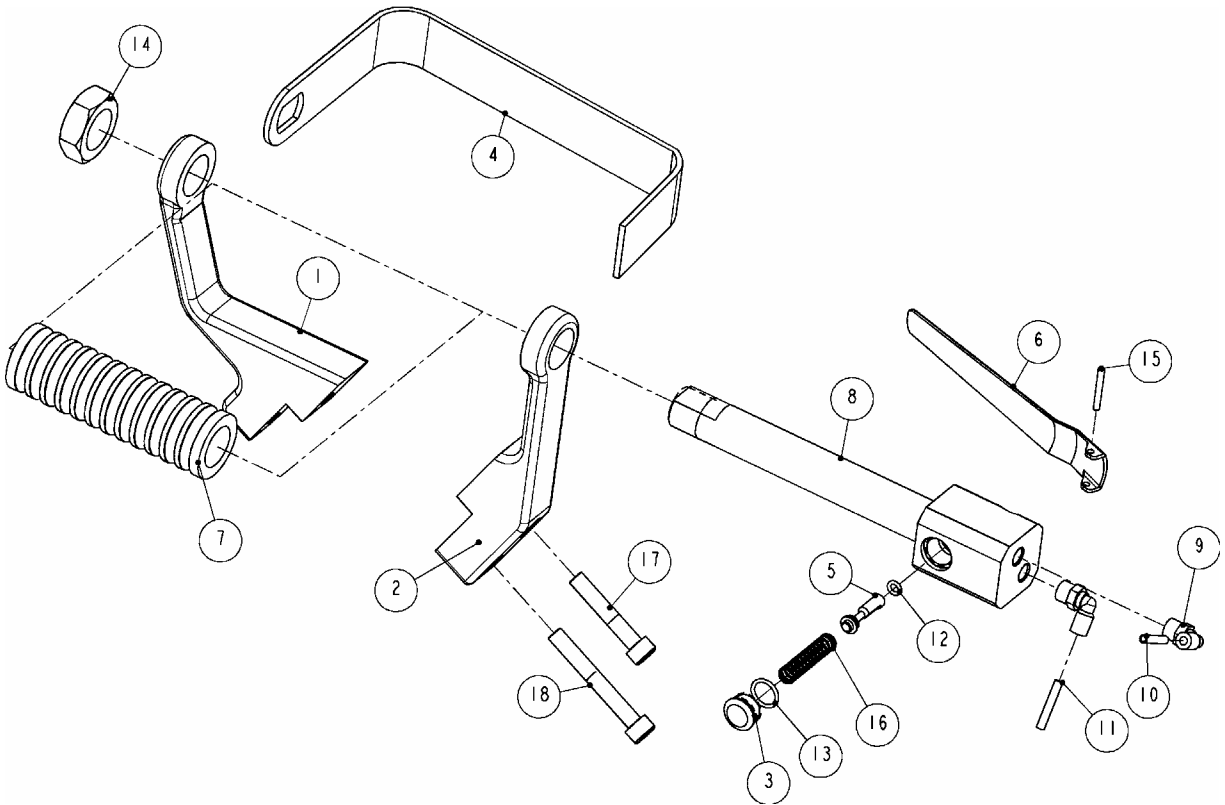


| 1709100 (BM-V-SB, S, SD): BLADE GUIDE ASSEMBLY, REAR<br>1709101 (BM-V-SB, S, SD): BLADE GUIDE ASSEMBLY, REAR |         |   |     |
|--|---------|---|-----|
| ITEM   | PART #  | DESCRIPTION                                 | QTY |
| 1  | 1708660 | GUIDE HOLDER / FOR 1709100 (BM-V-SB, S, SD) | 1   |
|  | 1708661 | GUIDE HOLDER / FOR 1709101 (BM-V-SDB)       | 1   |
| 2  | 1709110 | GUIDE                                       | 2   |
| 3  | 1709750 | REAR GUARD                                  | 1   |
| 4  | 1709760 | FRONT GUARD                                 | 1   |
| 5  | 8239050 | SCREW                                       | 4   |
| 6  | 8865050 | CARBID INSERT                               | 3   |
| 7  | 8895100 | BALL PLUNGER                                | 1   |
| 8  | 9211050 | SCREW                                       | 2   |
| 9  | 9213110 | SCREW                                       | 2   |
| 10   | 9239050 | SCREW                                       | 3   |
| 11   | 9501430 | NUT   | 1   |
| 12   | 9620450 | PIN   | 1   |
| 13   | 9870340 | SCREW                                       | 1   |

REFER TO “BLADE GUIDE ASSEMBLY, TAKE-UP SIDE” (FIGURE 9) FOR ADJUSTMENT INSTRUCTIONS.

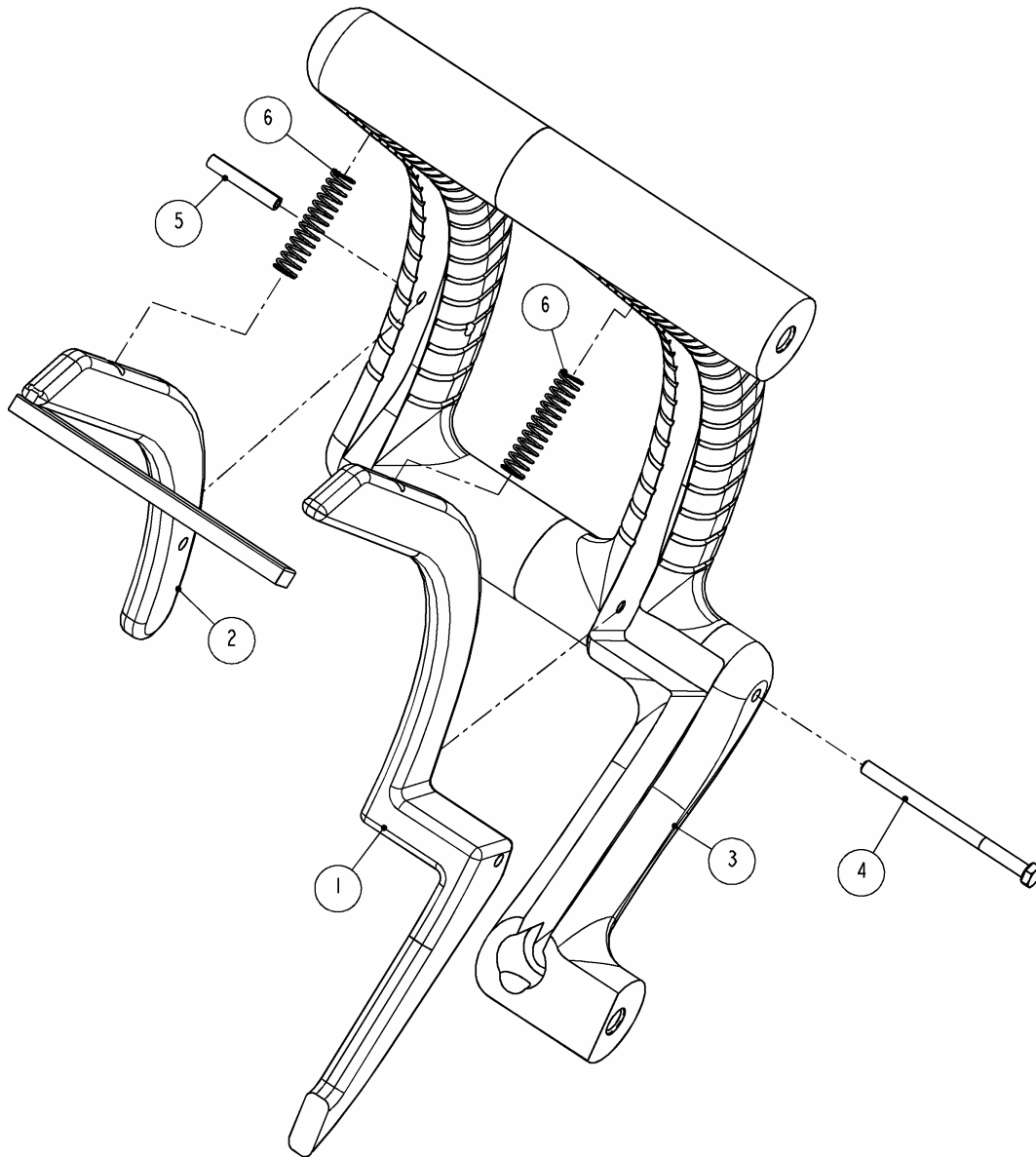
**Figure 11 BLADE GUIDE ASSEMBLY, DRIVE SIDE (BM-V-S, SB, SD, SDB)**

**HANDLES**



| <b>1710140: TOP HANDLE ASSEMBLY - AIR</b> |         |                     |     |
|---|---------|---------------------|-----|
| ITEM                                      | PART #  | DESCRIPTION         | QTY |
| 1   | 1709700 | HANDLE, LEFT HALVE  | 1   |
| 2   | 1709710 | HANDLE, RIGHT HALVE | 1   |
| 3   | 6300770 | VALVE PLUG          | 1   |
| 4   | 6541690 | GUARD               | 1   |
| 5   | 6600360 | VALVE STEM          | 1   |
| 6   | 6600500 | LEVER               | 1   |
| 7   | 6620350 | SLEEVE              | 1   |
| 8   | 6620400 | AIR HANDLE          | 1   |
| 9   | 7036510 | ELBOW               | 2   |
| 10  | 7300710 | RED AIR TUBE        | 1   |
| 11  | 7300720 | GREEN AIR TUBE      | 1   |
| 12  | 7680080 | O-RING              | 1   |
| 13  | 7680140 | O-RING              | 1   |
| 14  | 8500580 | NUT                 | 1   |
| 15  | 8620080 | PIN                 | 1   |
| 16  | 8890010 | SPRING              | 1   |
| 17  | 9213140 | SCREW               | 1   |
| 18  | 9213190 | SCREW               | 1   |

**Figure 12 TOP HANDLE ASSEMBLY - AIR**

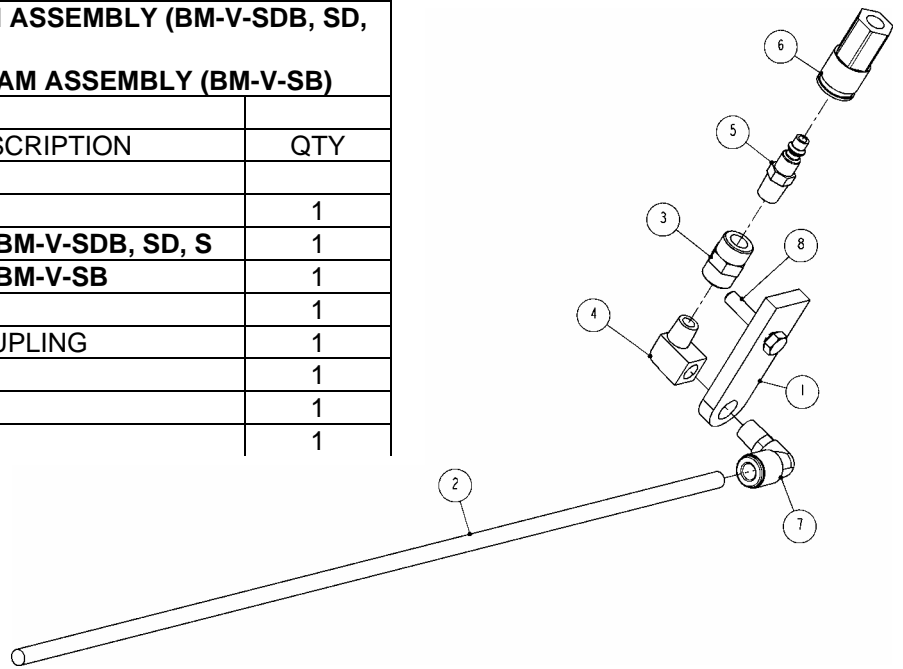


| 1708806: REAR HANDLE ASSEMBLY, AIR |         |                      |     |
|------------------------------------|---------|----------------------|-----|
| ITEM                               | PART #  | DESCRIPTION          | QTY |
| 1                                  | 1710130 | HANDLE TRIGGER       | 1   |
| 2                                  | 1709640 | REAR HANDLE, TRIGGER | 1   |
| 3                                  | 1710010 | REAR HANDLA FRAME    | 1   |
| 4                                  | 8409240 | SCREW                | 1   |
| 5                                  | 8613180 | ROLL PIN             | 1   |
| 6                                  | 8890010 | SPRING               | 2   |

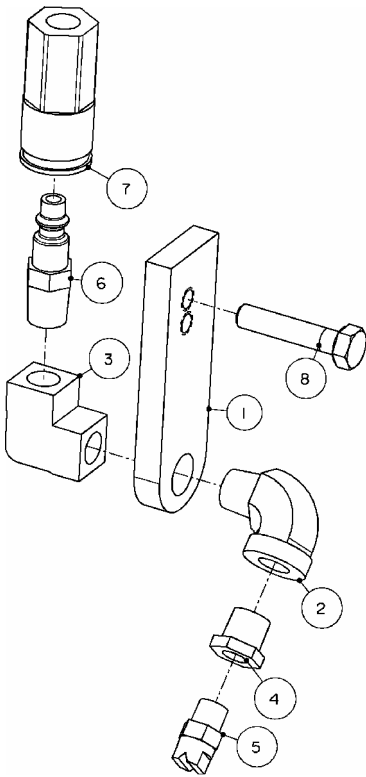
**Figure 13 REAR HANDLE ASSEMBLY**

**SPRAY OPTIONS**

| <b>1709890: SPRAY TUBE UNDER BEAM ASSEMBLY (BM-V-SDB, SD, S)</b> |         |                                  |     |
|--|---------|----------------------------------|-----|
| <b>1709910: SPRAY TUBE UNDER BEAM ASSEMBLY (BM-V-SB)</b>         |         |                                  |     |
| ITEM   | PART #  | DESCRIPTION                      | QTY |
| 1  | 1709870 | BRACKET                          | 1   |
| 2  | 1709880 | TUBE, <b>FOR BM-V-SDB, SD, S</b> | 1   |
|  | 1709900 | TUBE, <b>FOR BM-V-SB</b>         | 1   |
| 3  | 7001110 | COUPLING                         | 1   |
| 4  | 7003110 | ELBOW COUPLING                   | 1   |
| 5  | 7034070 | MALE PLUG                        | 1   |
| 6  | 7034090 | SOCKET                           | 1   |
| 7  | 7036560 | ELBOW                            | 1   |



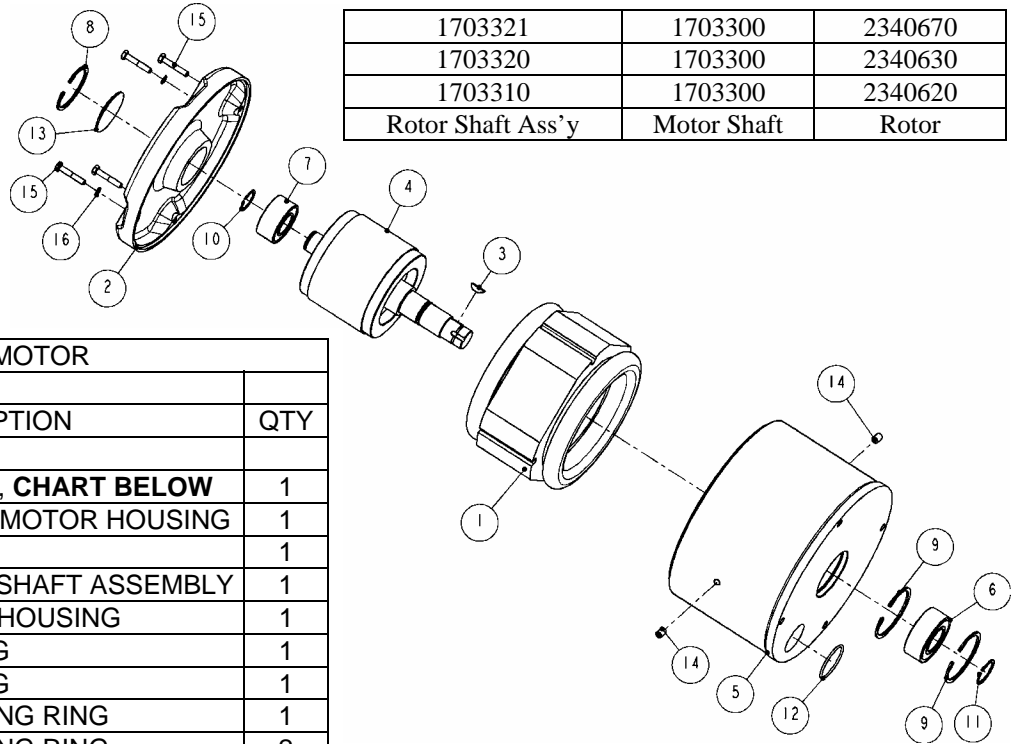
**Figure 14 SPRAY TUBE UNDER BEAM ASSEMBLY**



| <b>1710897: EXTERNAL SPRAY NOZZLE</b> |         |              |     |
|---------------------------------------|---------|--------------|-----|
| ITEM                                  | PART #  | DESCRIPTION  | QTY |
| 1                                     | 1709870 | BRACKET      | 1   |
| 2                                     | 7000410 | ELBOW        | 1   |
| 3                                     | 7003010 | ELBOW        | 1   |
| 4                                     | 7003650 | PIPE BUSHING | 1   |
| 5                                     | 7011650 | SPRAY NOZZLE | 1   |
| 6                                     | 7034070 | MALE PLUG    | 1   |
| 7                                     | 7034090 | SOCKET       | 1   |
| 8                                     | 8413120 | SCREW        | 1   |

**Figure 15 1710897; EXTERNAL SPRAY NOZZLE**

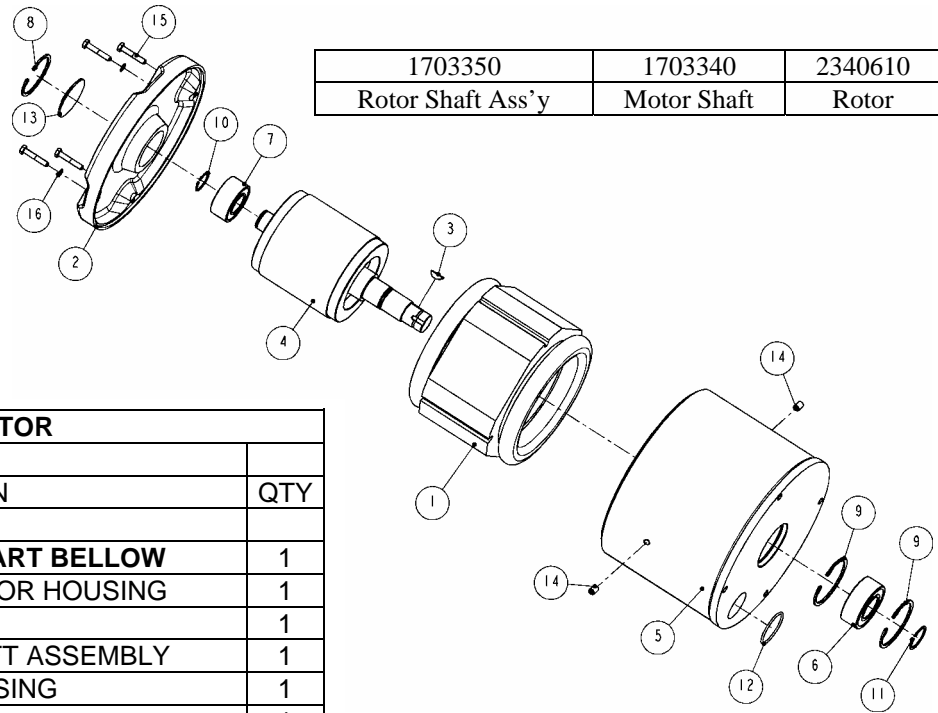
**MOTOR ASSEMBLY**



| BM-V: 2HP MOTOR |                |                             |     |
|-----------------|----------------|-----------------------------|-----|
| ITEM            | PART #         | DESCRIPTION                 | QTY |
| 1               | <b>OPTIONS</b> | <b>STATOR, CHART BELOW</b>  | 1   |
| 2               | 1501800        | COVER, MOTOR HOUSING        | 1   |
| 3               | 1705620        | KEY                         | 1   |
| 4               | <b>OPTIONS</b> | <b>ROTOR-SHAFT ASSEMBLY</b> | 1   |
| 5               | 1703330        | MOTOR HOUSING               | 1   |
| 6               | 3522060        | BEARING                     | 1   |
| 7               | 3524050        | BEARING                     | 1   |
| 8               | 5002120        | RETAINING RING              | 1   |
| 9               | 5002440        | RETAINING RING              | 2   |
| 10              | 5100980        | RETAINING RING              | 1   |
| 11              | 5101180        | RETAINING RING              | 1   |
| 12              | 7681300        | O-RING                      | 1   |
| 13              | 7902170        | EXPANSION PLUG              | 1   |
| 14              | 9313040        | SET SCREW                   | 2   |
| 15              | 9411100        | SCREW                       | 4   |
| 16              | 9507100        | WASHER                      | 4   |

|   |                    |               |              |
|---|--------------------|---------------|--------------|
| MOTOR ASS'Y 230V, 2HP, 1PH, 50HZ, 12.2AMPS          | 1703470-230-150    | 2340270       | 1703321      |
| MOTOR ASS'Y 115V, 2HP, 1PH, 50HZ, 24.4AMPS          | 1703470-115-150    | 2340270       | 1703321      |
| MOTOR ASS'Y 230V, 2HP, 1PH, 60HZ, 11.7AMPS          | 1703460-230-160    | 2340260       | 1703320      |
| MOTOR ASS'Y 115V, 2HP, 1PH, 60HZ, 23.4AMPS          | 1703460-115-160    | 2340260       | 1703320      |
| MOTOR ASS'Y 42V, 2HP, 3PH, 50HZ, 36.0 AMPS          | 1703400            | 2340200       | 1703310      |
| MOTOR ASS'Y 380V, 2HP, 3PH, 50HZ, 3.7 AMPS          | 1703420-380-350    | 2340220       | 1703310      |
| MOTOR ASS'Y 220V, 2HP, 3PH, 50HZ, 6.4 AMPS          | 1703420-220-350    | 2340220       | 1703310      |
| MOTOR ASS'Y 416V, 2HP, 3PH, 50HZ, 3.3 AMPS          | 1703430-416-350    | 2340230       | 1703310      |
| MOTOR ASS'Y 208V, 2HP, 3PH, 50HZ, 6.6 AMPS          | 1703430-208-350    | 2340230       | 1703310      |
| MOTOR ASS'Y 230V, 2HP, 3PH, 50HZ, 6.6 AMPS          | 1703410-230-350    | 2340210       | 1703310      |
| MOTOR ASS'Y 115V, 2HP, 3PH, 50HZ, 13.2 AMPS         | 1703410-115-350    | 2340210       | 1703310      |
| MOTOR ASS'Y 550V, 2HP, 3PH, 60HZ, 2.5AMPS           | 1703450            | 2340250       | 1703310      |
| MOTOR ASS'Y 380V, 2HP, 3PH, 60HZ, 3.9 AMPS          | 1703440-380-360    | 2340240       | 1703310      |
| MOTOR ASS'Y 220V, 2HP, 3PH, 60HZ, 6.8 AMPS          | 1703440-220-360    | 2340240       | 1703310      |
| MOTOR ASS'Y 460V, 2HP, 3PH, 60HZ, 3.3 AMPS          | 1703430-460-360    | 2340230       | 1703310      |
| MOTOR ASS'Y 230V, 2HP, 3PH, 60HZ, 6.6 AMPS          | 1703430-230-360    | 2340230       | 1703310      |
| <b>MOTOR OPTION DESCRIPTION</b>                     | <b>MOTOR ASS'Y</b> | <b>STATOR</b> | <b>ROTOR</b> |
| <b>BM-V: 2HP MOTOR ASSEMBLY OPTIONS with STATOR</b> |                    |               |              |

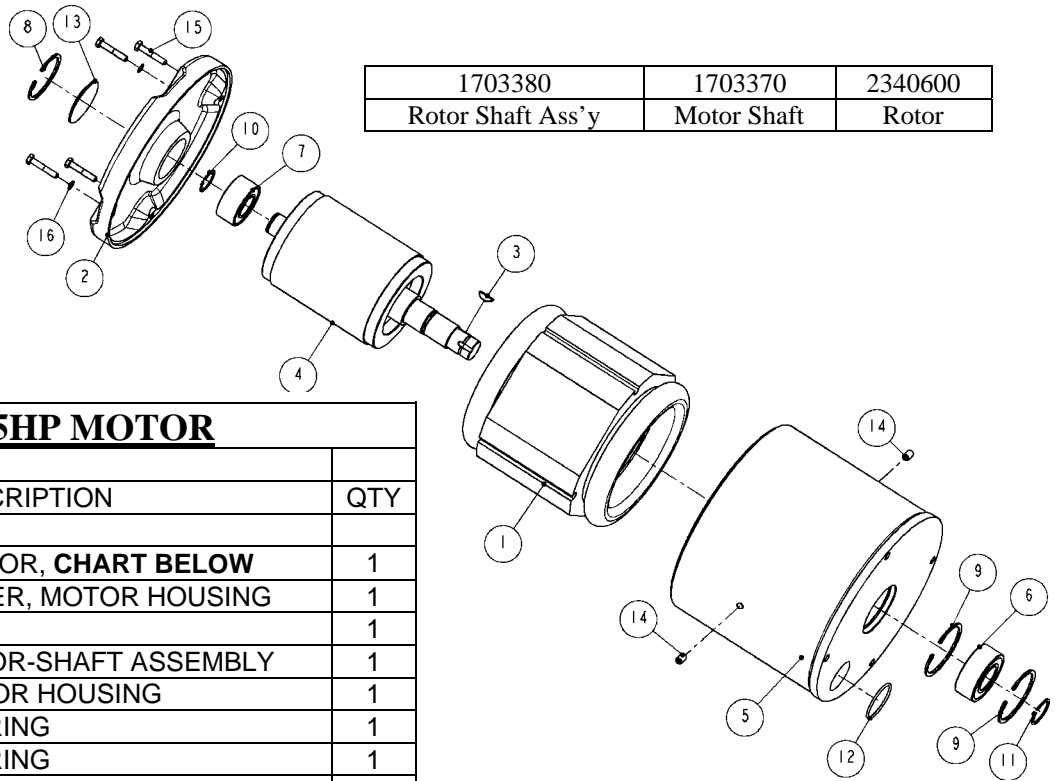
**Figure 16 2HP MOTOR OPTIONS**



| BM-V: 3HP MOTOR |                |                             |     |
|-----------------|----------------|-----------------------------|-----|
| ITEM            | PART #         | DESCRIPTION                 | QTY |
| 1               | <b>OPTIONS</b> | <b>STATOR, CHART BELLOW</b> | 1   |
| 2               | 1501800        | COVER, MOTOR HOUSING        | 1   |
| 3               | 1705620        | KEY                         | 1   |
| 4               | 1703350        | ROTOR-SHAFT ASSEMBLY        | 1   |
| 5               | 1703360        | MOTOR HOUSING               | 1   |
| 6               | 3522060        | BEARING                     | 1   |
| 7               | 3524050        | BEARING                     | 1   |
| 8               | 5002120        | RETAINING RING              | 1   |
| 9               | 5002440        | RETAINING RING              | 2   |
| 10              | 5100980        | RETAINING RING              | 1   |
| 11              | 5101180        | RETAINING RING              | 1   |
| 12              | 7681300        | O-RING                      | 1   |
| 13              | 7902170        | EXPANSION PLUG              | 1   |
| 14              | 9313040        | SET SCREW                   | 2   |
| 15              | 9411100        | SCREW                       | 4   |
| 16              | 9507100        | WASHER                      | 4   |

|   |                    |               |              |
|---|--------------------|---------------|--------------|
| MOTOR ASS'Y 42V, 3HP, 3PH, 50HZ, 47.0 AMPS          | 1703500            | 2340100       | 1703350      |
| MOTOR ASS'Y 380V, 3HP, 3PH, 50HZ, 5.1 AMPS          | 1703520-380-350    | 2340120       | 1703350      |
| MOTOR ASS'Y 220V, 3HP, 3PH, 50HZ, 8.8 AMPS          | 1703520-220-350    | 2340120       | 1703350      |
| MOTOR ASS'Y 416V, 3HP, 3PH, 50HZ, 4.3 AMPS          | 1703530-416-350    | 2340130       | 1703350      |
| MOTOR ASS'Y 208V, 3HP, 3PH, 50HZ, 8.6 AMPS          | 1703530-208-350    | 2340130       | 1703350      |
| MOTOR ASS'Y 230V, 3HP, 3PH, 50HZ, 8.8 AMPS          | 1703510-230-350    | 2340110       | 1703350      |
| MOTOR ASS'Y 115V, 3HP, 3PH, 50HZ, 17.6 AMPS         | 1703510-115-350    | 2340110       | 1703350      |
| MOTOR ASS'Y 550V, 3HP, 3PH, 60HZ, 3.8AMPS           | 1703550            | 2340150       | 1703350      |
| MOTOR ASS'Y 380V, 3HP, 3PH, 60HZ, 5.0 AMPS          | 1703540-380-360    | 2340140       | 1703350      |
| MOTOR ASS'Y 220V, 3HP, 3PH, 60HZ, 8.6 AMPS          | 1703540-220-360    | 2340140       | 1703350      |
| MOTOR ASS'Y 460V, 3HP, 3PH, 60HZ, 4.1 AMPS          | 1703530-460-360    | 2340130       | 1703350      |
| MOTOR ASS'Y 230V, 3HP, 3PH, 60HZ, 8.2 AMPS          | 1703530-230-360    | 2340130       | 1703350      |
| <b>MOTOR OPTION DESCRIPTION</b>                     | <b>MOTOR ASS'Y</b> | <b>STATOR</b> | <b>ROTOR</b> |
| <b>BM-V: 3HP MOTOR ASSEMBLY OPTIONS with STATOR</b> |                    |               |              |

**Figure 17 3HP MOTOR OPTIONS**

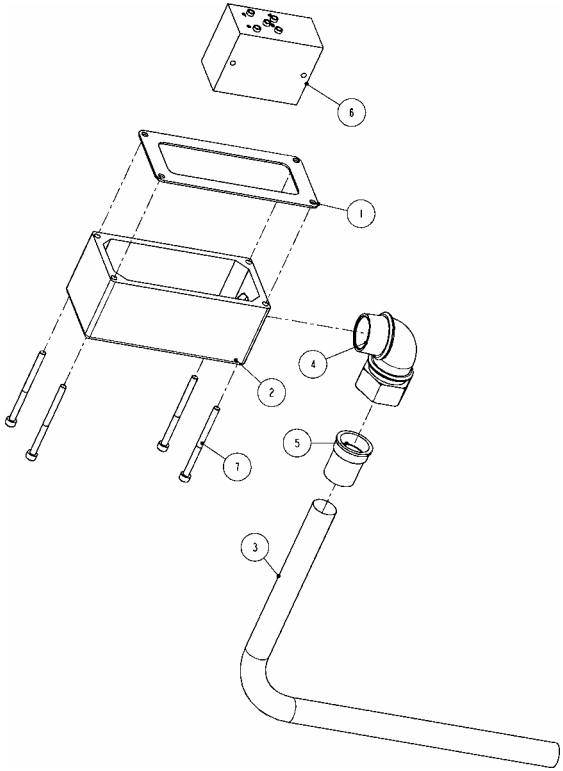


| <b>BM-V: 5HP MOTOR</b> |                |                            |     |
|------------------------|----------------|----------------------------|-----|
| ITEM                   | PART #         | DESCRIPTION                | QTY |
| 1                      | <b>OPTIONS</b> | <b>STATOR, CHART BELOW</b> | 1   |
| 2                      | 1501800        | COVER, MOTOR HOUSING       | 1   |
| 3                      | 1705620        | KEY                        | 1   |
| 4                      | 1703380        | ROTOR-SHAFT ASSEMBLY       | 1   |
| 5                      | 1703390        | MOTOR HOUSING              | 1   |
| 6                      | 3522060        | BEARING                    | 1   |
| 7                      | 3524050        | BEARING                    | 1   |
| 8                      | 5002120        | RETAINING RING             | 1   |
| 9                      | 5002440        | RETAINING RING             | 2   |
| 10                     | 5100980        | RETAINING RING             | 1   |
| 11                     | 5101180        | RETAINING RING             | 1   |
| 12                     | 7681300        | O-RING                     | 1   |
| 13                     | 7902170        | EXPANSION PLUG             | 1   |
| 14                     | 9313040        | SET SCREW                  | 2   |
| 15                     | 9411100        | SCREW                      | 4   |
| 16                     | 9507100        | WASHER                     | 4   |

|   |                    |               |              |
|---|--------------------|---------------|--------------|
| MOTOR ASS'Y 550V, 5HP, 3PH, 60HZ, 5.6 AMPS          | 1703650            | 2340050       | 1703380      |
| MOTOR ASS'Y 380V, 5HP, 3PH, 60HZ, 7.8AMPS           | 1703640-380-360    | 2340040       | 1703380      |
| MOTOR ASS'Y 220V, 5HP, 3PH, 60HZ, 14.7AMPS          | 1703640-220-360    | 2340040       | 1703380      |
| MOTOR ASS'Y 380V, 5HP, 3PH, 50HZ, 7.7 AMPS          | 1703620-380-350    | 2340020       | 1703380      |
| MOTOR ASS'Y 220V, 5HP, 3PH, 50HZ, 13.4 AMPS         | 1703620-220-350    | 2340020       | 1703380      |
| MOTOR ASS'Y 42V, 5HP, 3PH, 50HZ, 73.0 AMPS          | 1703600            | 2340000       | 1703380      |
| MOTOR ASS'Y 460V, 5HP, 3PH, 60HZ, 6.5 AMPS          | 1703630-460-360    | 2340030       | 1703380      |
| MOTOR ASS'Y 230V, 5HP, 3PH, 60HZ, 13.0 AMPS         | 1703630-230-360    | 2340030       | 1703380      |
| MOTOR ASS'Y 230V, 5HP, 3PH, 50HZ, 13.6 AMPS         | 1703610-230-350    | 2340010       | 1703380      |
| MOTOR ASS'Y 115V, 5HP, 3PH, 50HZ, 27.2 AMPS         | 1703610-115-350    | 2340010       | 1703380      |
| <b>MOTOR OPTION DESCRIPTION</b>                     | <b>MOTOR ASS'Y</b> | <b>STATOR</b> | <b>ROTOR</b> |
| <b>BM-V: 5HP MOTOR ASSEMBLY OPTIONS with STATOR</b> |                    |               |              |

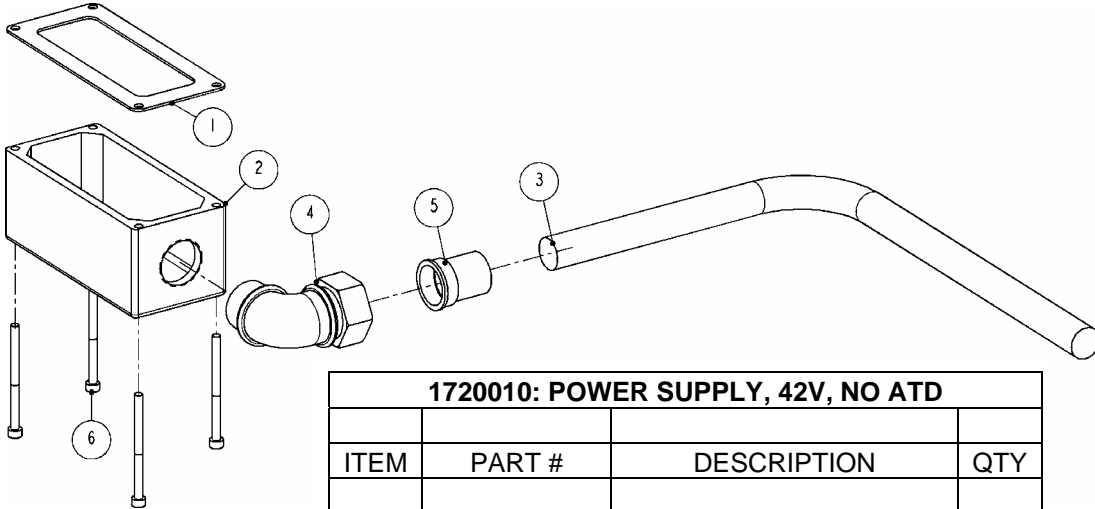
**Figure 18 5HP MOTOR OPTIONS**

**POWER SUPPLY OPTIONS**



| <b>1720050: POWER SUPPLY, 42V, ATD, AIR</b> |         |                           |     |
|---|---------|---------------------------|-----|
| ITEM  | PART #  | DESCRIPTION               | QTY |
| 1   | 1708730 | GASKET                    | 1   |
| 2   | 1709480 | COVER, WIRE BOX, 42V, ATD | 1   |
| 3   | 2007030 | POWER CORD                | 1   |
| 4   | 2008200 | CABLE CONNECTOR           | 1   |
| 5   | 2008210 | CORD GRIP                 | 1   |
| 6   | 7804310 | AIR LOGIC MODULE          | 1   |
| 7   | 9209240 | SCREW                     | 4   |

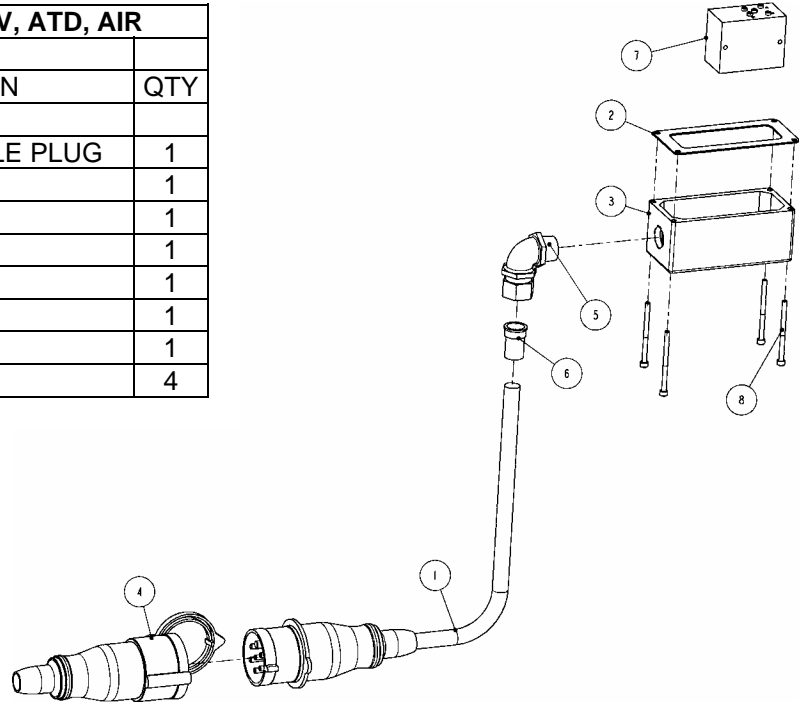
**Figure 19 POWER SUPPLY, 42V, with ANTI-TIEDOWN, AIR**



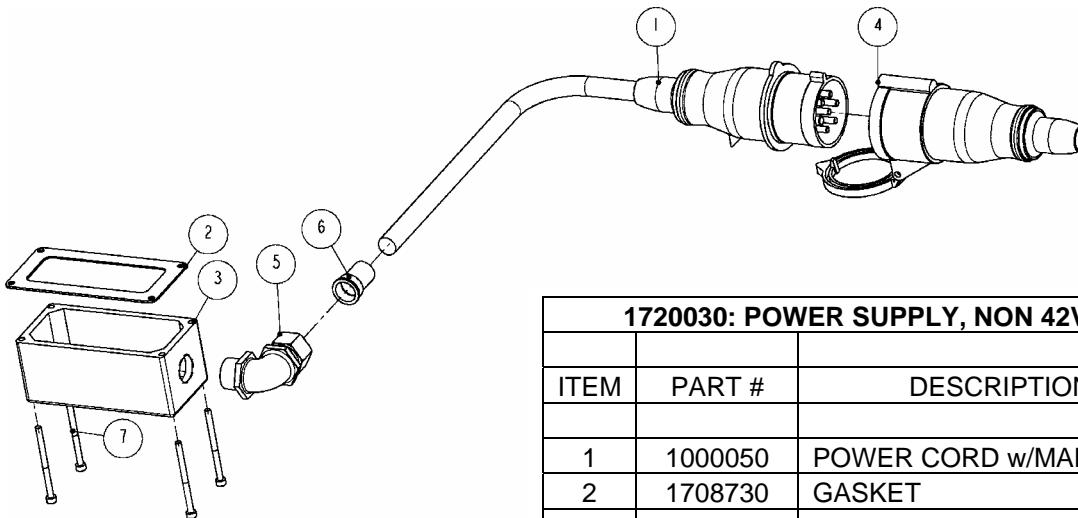
| <b>1720010: POWER SUPPLY, 42V, NO ATD</b> |         |                 |     |
|---|---------|-----------------|-----|
| ITEM                                      | PART #  | DESCRIPTION     | QTY |
| 1   | 1708730 | GASKET          | 1   |
| 2   | 1709480 | COVER, WIRE BOX | 1   |
| 3   | 2007030 | POWER CORD      | 1   |
| 4   | 2008200 | CABLE CONNECTOR | 1   |
| 5   | 2008210 | CORD GRIP       | 1   |
| 6   | 9209240 | SCREW           | 4   |

**Figure 20 POWER SUPPLY, 42V, without ANTI-TIEDOWN**

| 1720040: POWER SUPPLY, NON 42V, ATD, AIR |         |                        |     |
|--|---------|------------------------|-----|
| ITEM                                     | PART #  | DESCRIPTION            | QTY |
| 1  | 1000050 | POWER CORD w/MALE PLUG | 1   |
| 2  | 1708730 | GASKET                 | 1   |
| 3  | 1709460 | COVER, WIRE BOX        | 1   |
| 4  | 2001620 | SOCKET, FEMALE         | 1   |
| 5  | 2008180 | CABLE CONNECTOR        | 1   |
| 6  | 2008220 | CORD GRIP              | 1   |
| 7  | 7804310 | AIR LOGIC MODULE       | 1   |
| 8  | 9209240 | SCREW                  | 4   |



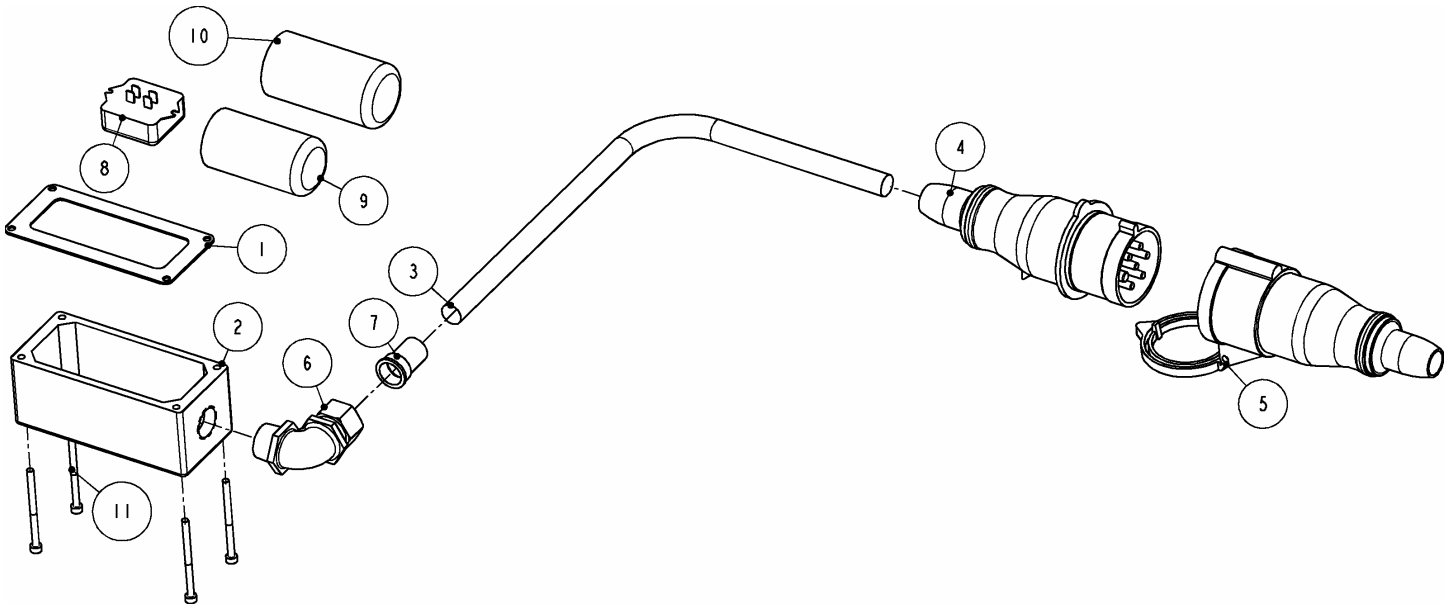
**Figure 21 POWER SUPPLY, NON 42V, with ANTI-TIEDOWN, AIR**



| 1720030: POWER SUPPLY, NON 42V, NO ATD |         |                        |     |
|--|---------|------------------------|-----|
| ITEM                                   | PART #  | DESCRIPTION            | QTY |
| 1                                      | 1000050 | POWER CORD w/MALE PLUG | 1   |
| 2                                      | 1708730 | GASKET                 | 1   |
| 3                                      | 1709460 | COVER, WIRE BOX        | 1   |
| 4                                      | 2001620 | SOCKET, FEMALE         | 1   |
| 5                                      | 2008180 | CABLE CONNECTOR        | 1   |
| 6                                      | 2008220 | CORD GRIP              | 1   |
| 7                                      | 9209240 | SCREW                  | 4   |

POWER CORD 1000050: POWER CORD 20FT LONG (2001240) + MALE PLUG (2001610)

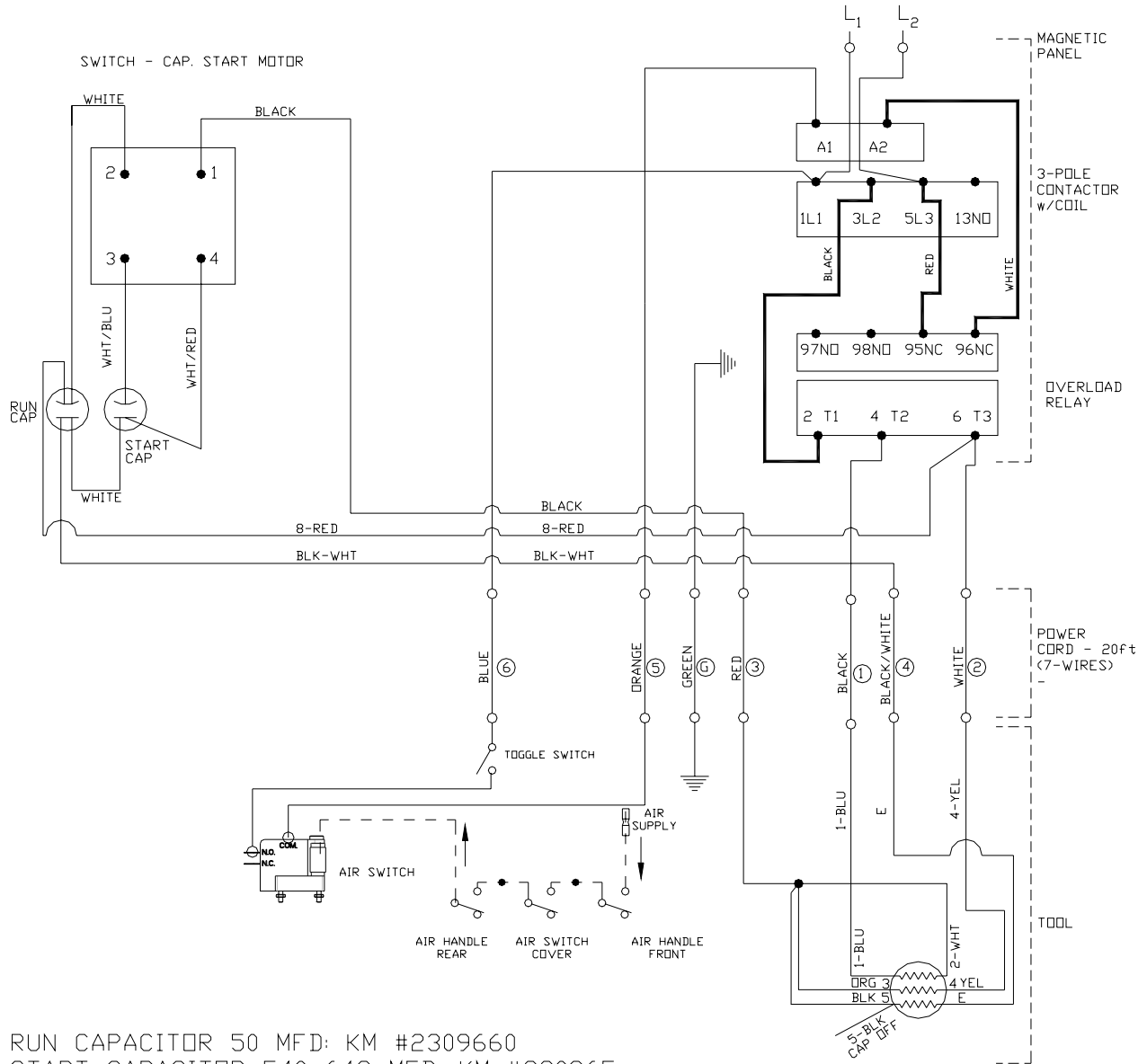
**Figure 22 POWER SUPPLY, NON 42V, without ANTI-TIEDOWN**



| 1720007: POWER SUPPLY, SINGLE PHASE 115 / 230V |         |                               |     |
|--|---------|-------------------------------|-----|
| ITEM   | PART #  | DESCRIPTION                   | QTY |
| 1  | 1708730 | GASKET                        | 1   |
| 2  | 1709460 | COVER, WIRE BOX               | 1   |
| 3  | 2001080 | POWER CORD                    | 1   |
| 4  | 2001610 | PLUG, MALE                    | 1   |
| 5  | 2001620 | SOCKET, FEMALE                | 1   |
| 6  | 2008180 | CABLE CONNECTOR               | 1   |
| 7  | 2008220 | CORD GRIP                     | 1   |
| 8  | 2309040 | CAPACITOR START MOTOR         | 1   |
| 9  | 2309650 | START CAPACITOR – 540-648 MFD | 1   |
| 10   | 2309660 | RUN CAPACITOR – 50MFD         | 1   |
| 11   | 9209240 | SCREW                         | 4   |

**Figure 23 POWER SUPPLY, SINGLE PHASE, 115V**

**WIRING DIAGRAMS**



RUN CAPACITOR 50 MFD: KM #2309660  
 START CAPACITOR 540-648 MFD: KM #230965  
 SWITCH: KM #2309040 (477105012U01)

| SINGLE PHASE – 230V |                                 |                  |                |
|---------------------|---------------------------------|------------------|----------------|
| CONTROL VOLTAGE     | MOTOR OPTION                    | 3-POLE CONTACTOR | OVERLOAD RELAY |
| 220V                | MOTOR 220V, 60HZ, 11.7AMPS, 2HP | 2020033          | 2309170        |
| 220V                | MOTOR 220V, 50HZ, 12.2AMPS, 2HP | 2020033          | 2309170        |

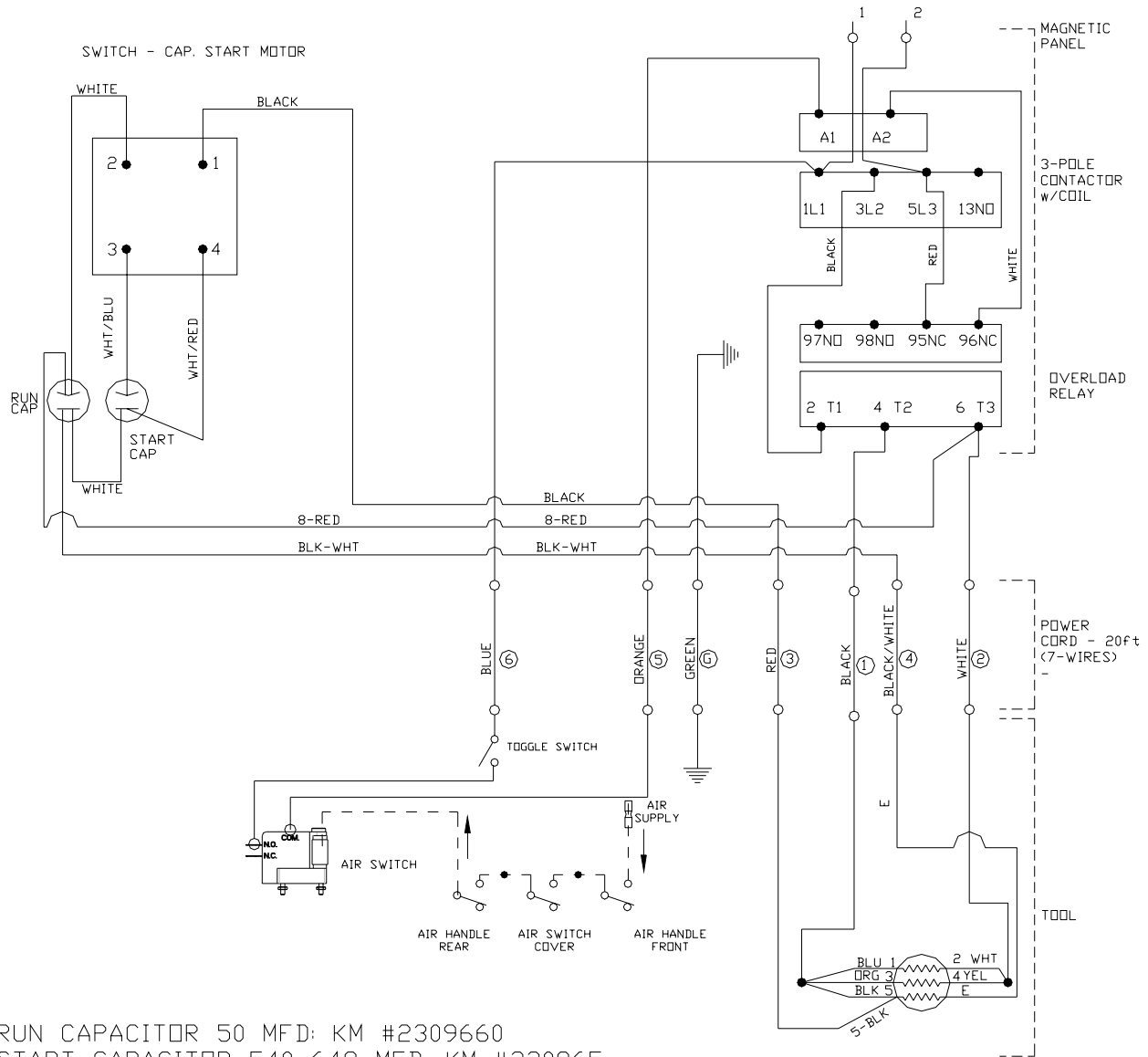
**NOTES:**

- DO NOT ATTEMPT OR MAKE REPAIRS ON THE MACHINE WHILE POWER IS ON.
- ALL ELECTRICAL WORK MUST BE PERFORMED BY A QUALIFIED ELECTRICIAN.
- THE CAPACITOR AND THE SWITCH – CAP. START MOTOR ARE MOUNTED INSIDE THE MAGNETIC PANEL BOX.
- THE ELECTRICAL DIAGRAM SHOWS THE MACHINE IN THE “OFF” POSITION.
- THE GROUND WIRE (GREEN) OF THE POWER CABLE IS CONNECTED TO THE FRAME OF THE MACHINE.
- TO REVERSE DIRECTION, REVERSE MOTOR WIRES #5 AND #8.

**Figure 24 WIRING – SINGLE PHASE – 230V Air Operated without Anti-Tie Down**

KENTMASTER MFG. CO., INC. 1801 SOUTH MOUNTAIN AVE., MONROVIA, CALIFORNIA 91016 UNITED STATES OF AMERICA

① TELEPHONE: (626) 359-8888 FAX: (626) 303-5151



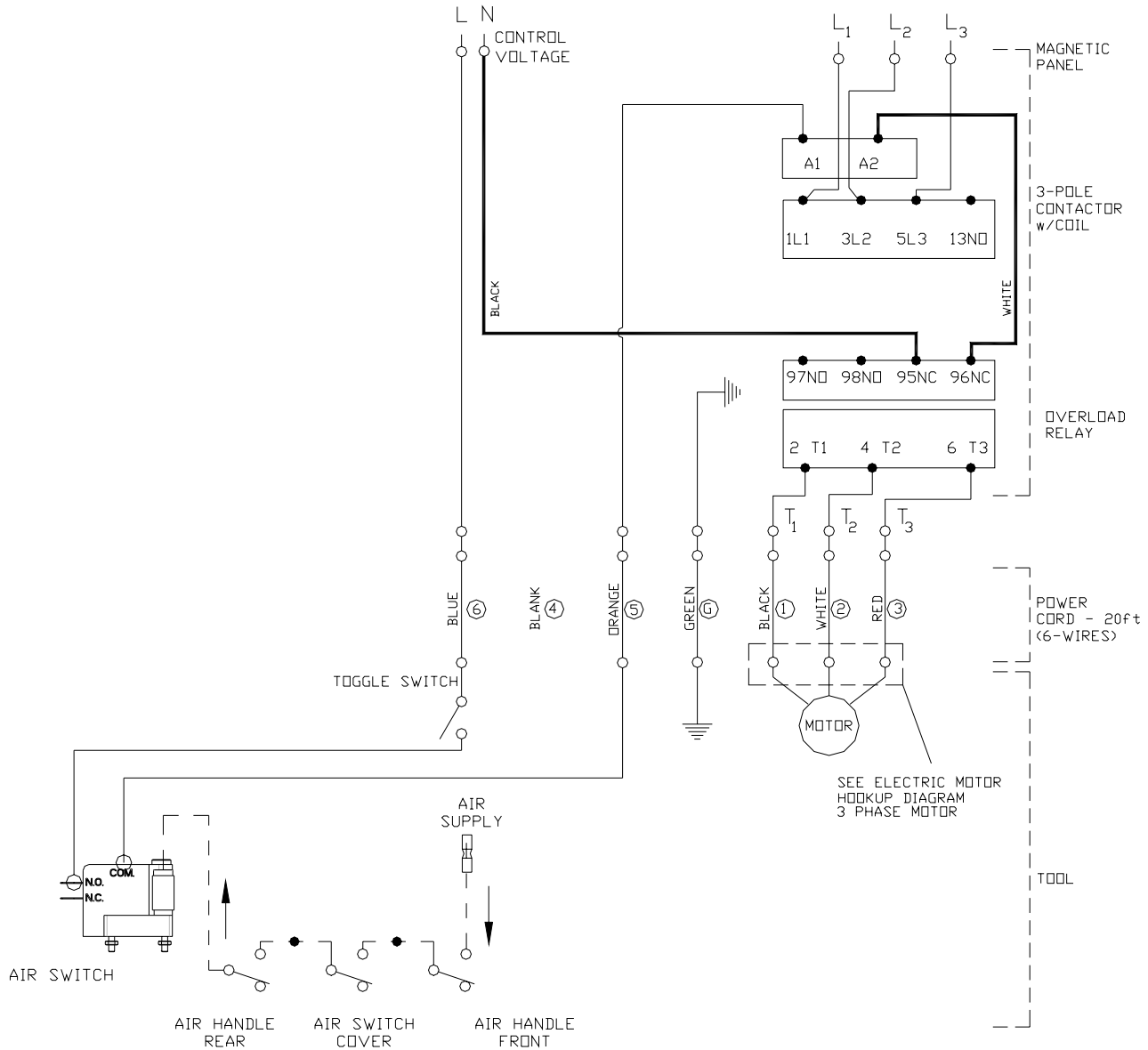
RUN CAPACITOR 50 MFD: KM #2309660  
 START CAPACITOR 540-648 MFD: KM #230965  
 SWITCH: KM #2309040 (477105012U01)

| SINGLE PHASE – 115V |                                 |                  |                |
|---------------------|---------------------------------|------------------|----------------|
| CONTROL VOLTAGE     | MOTOR OPTION                    | 3-POLE CONTACTOR | OVERLOAD RELAY |
| 115V                | MOTOR 115V, 60HZ, 23.4AMPS, 2HP | 2020038          | 2309200        |
| 115V                | MOTOR 115V, 50HZ, 24.4AMPS, 2HP | 2020038          | 2309200        |

NOTES:

- DO NOT ATTEMPT OR MAKE REPAIRS ON THE MACHINE WHILE POWER IS ON.
- ALL ELECTRICAL WORK MUST BE PERFORMED BY A QUALIFIED ELECTRICIAN.
- THE CAPACITOR AND THE SWITCH – CAP. START MOTOR ARE MOUNTED INSIDE THE MAGNETIC PANEL BOX.
- THE ELECTRICAL DIAGRAM SHOWS THE MACHINE IN THE “OFF” POSITION.
- THE GROUND WIRE (GREEN) OF THE POWER CABLE IS CONNECTED TO THE FRAME OF THE MACHINE.
- TO REVERSE DIRECTION, REVERSE MOTOR WIRES #5 AND #8.

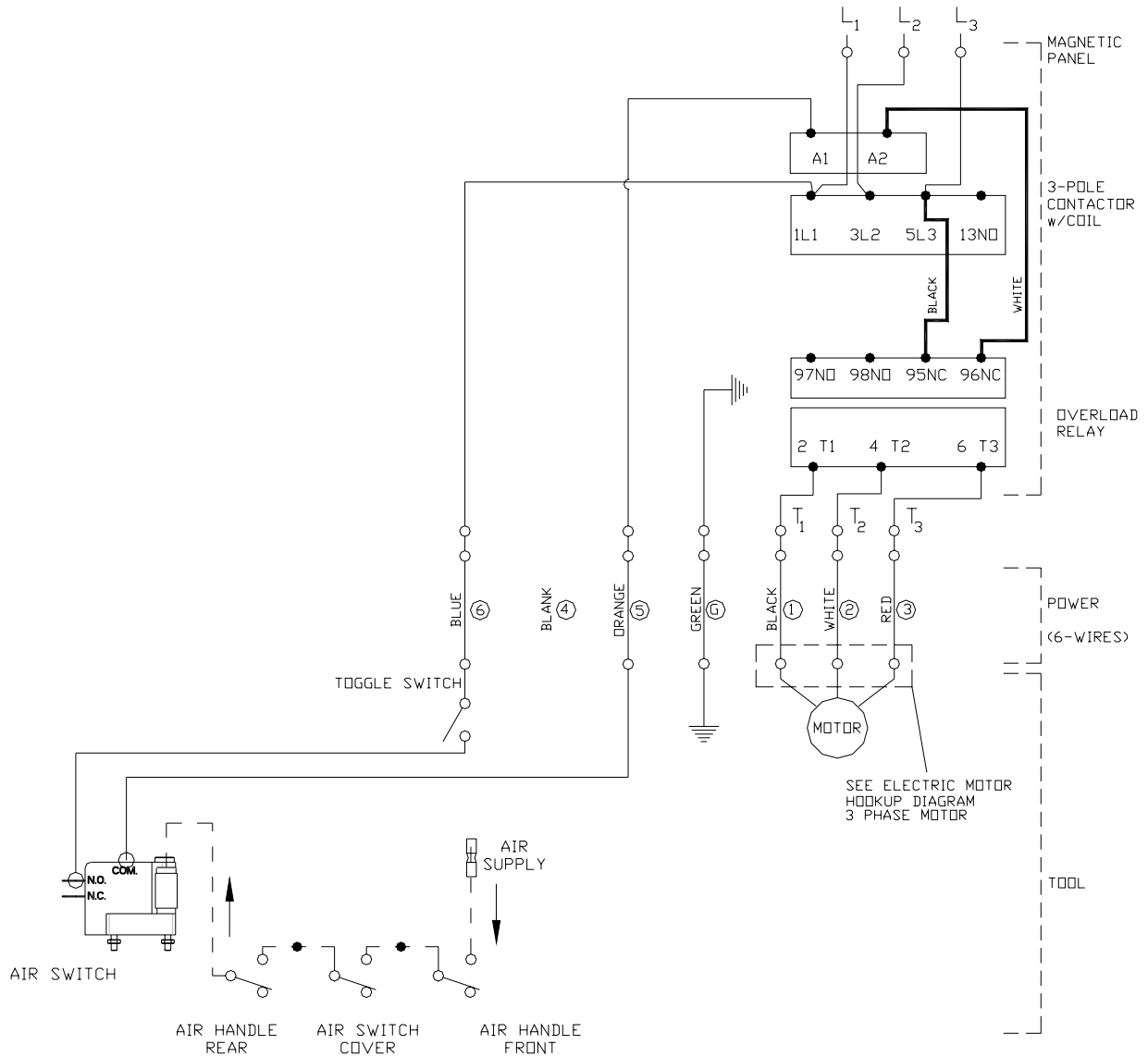
**Figure 25 WIRING – SINGLE PHASE – 115V Air Operated without Anti-Tie Down**



1. DO NOT ATTEMPT OR MAKE REPAIRS ON THE MACHINE WHILE POWER IS ON.
2. ALL ELECTRICAL WORK MUST BE PERFORMED BY A QUALIFIED ELECTRICIAN.
3. THE ELECTRICAL DIAGRAM SHOWS THE MACHINE IN THE "OFF" POSITION.

**To obtain the correct Kentmaster part number for 3-pole contactor and overload relay, please contact the Kentmaster representative.**

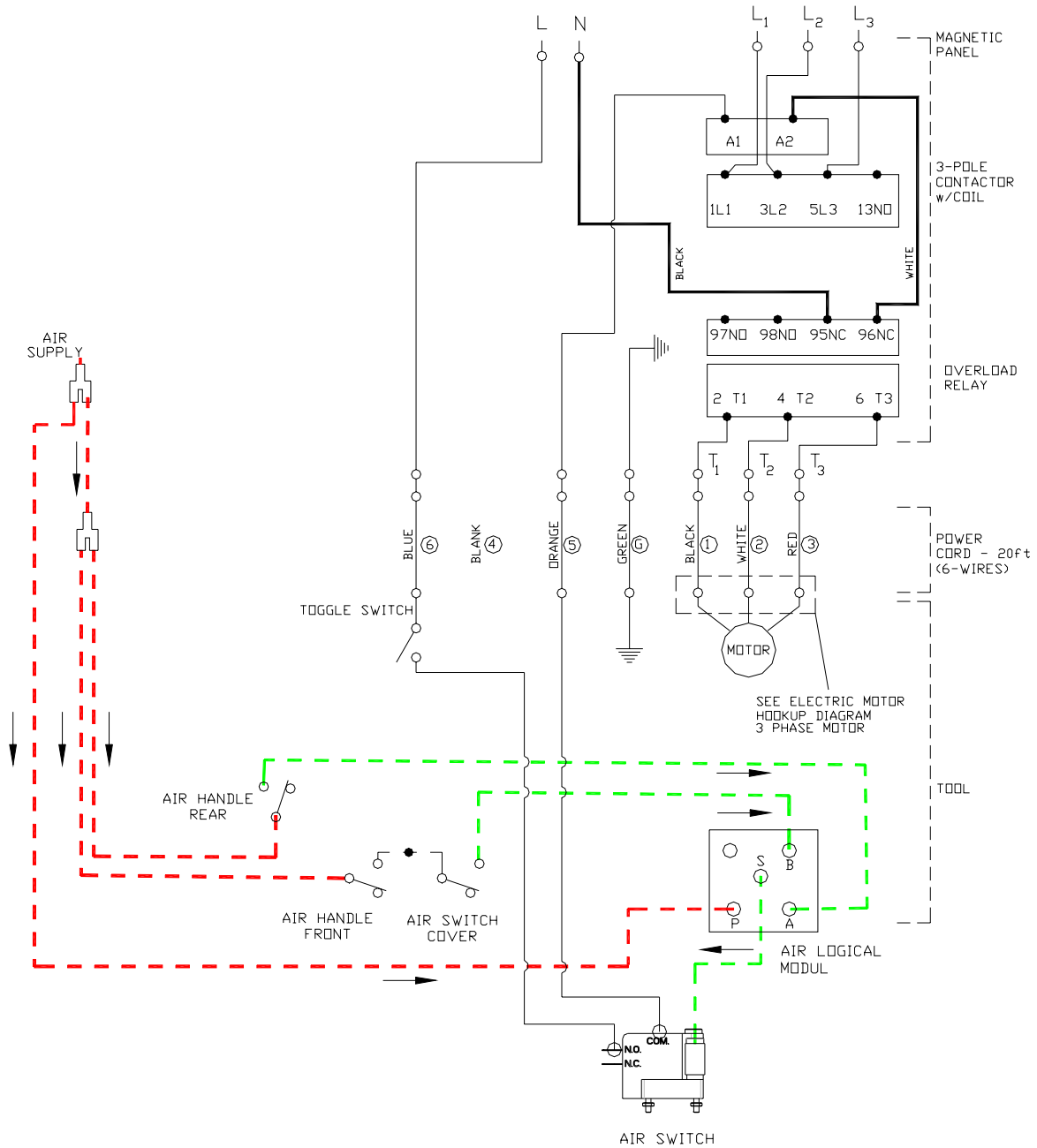
**Figure 26 WIRING – 3 PH – DIFFERENT CONTROL AND MOTOR VOLTAGE - Air Operated without Anti-Tie Down**



1. DO NOT ATTEMPT OR MAKE REPAIRS ON THE MACHINE WHILE POWER IS ON.
2. ALL ELECTRICAL WORK MUST BE PERFORMED BY A QUALIFIED ELECTRICIAN.
3. THE ELECTRICAL DIAGRAM SHOWS THE MACHINE IN THE "OFF" POSITION.

**To obtain the correct Kentmaster part number for 3-pole contactor and overload relay, please contact the Kentmaster representative.**

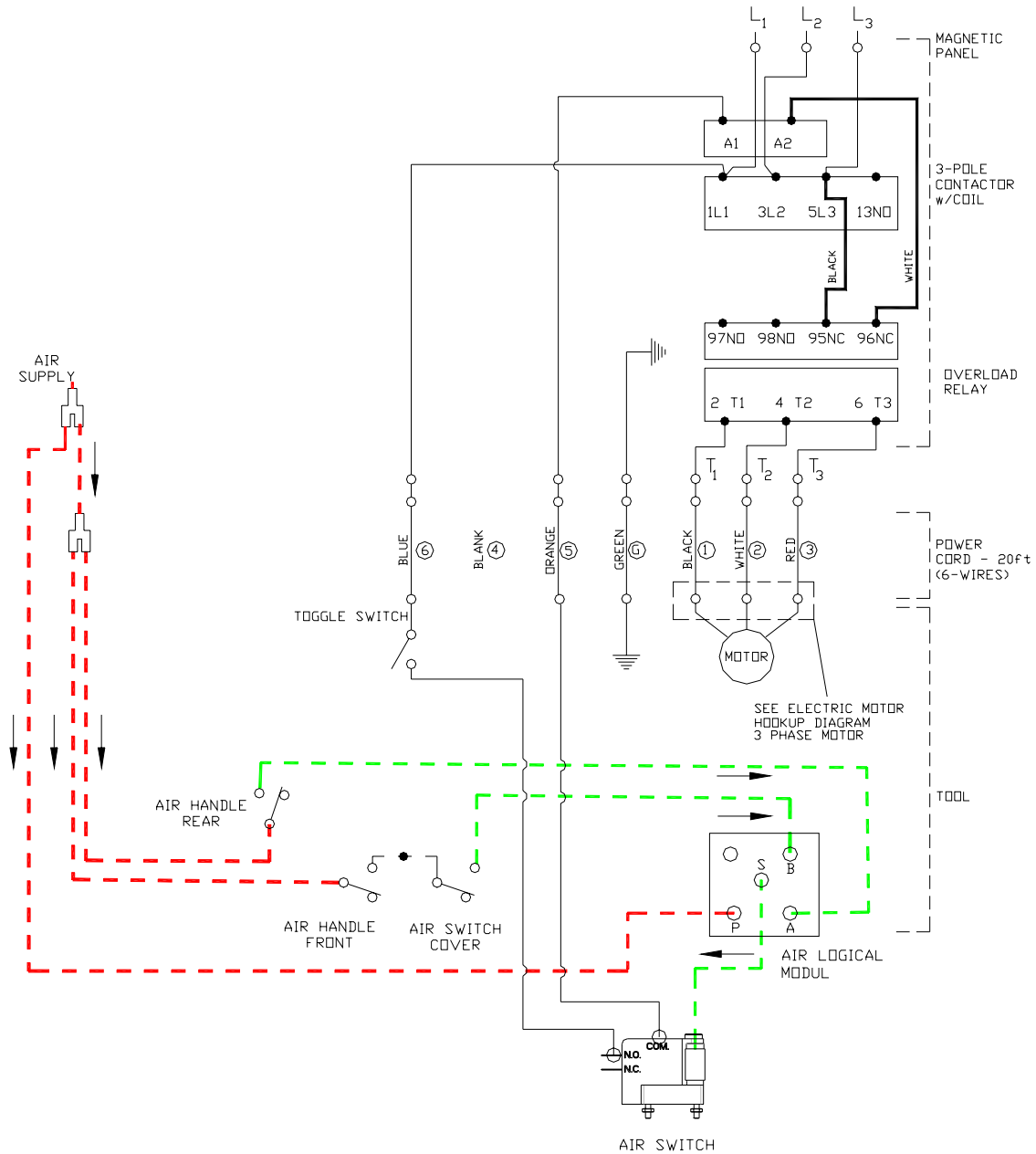
**Figure 27 WIRING – 3 PH – SAME CONTROL AND MOTOR VOLTAGE - Air Operated without Anti-Tie Down**



1. DO NOT ATTEMPT OR MAKE REPAIRS ON THE MACHINE WHILE POWER IS ON.
2. ALL ELECTRICAL WORK MUST BE PERFORMED BY A QUALIFIED ELECTRICIAN.
3. THE ELECTRICAL DIAGRAM SHOWS THE MACHINE IN THE "OFF" POSITION.

**To obtain the correct Kentmaster part number for 3-pole contactor and overload relay, please contact the Kentmaster representative.**

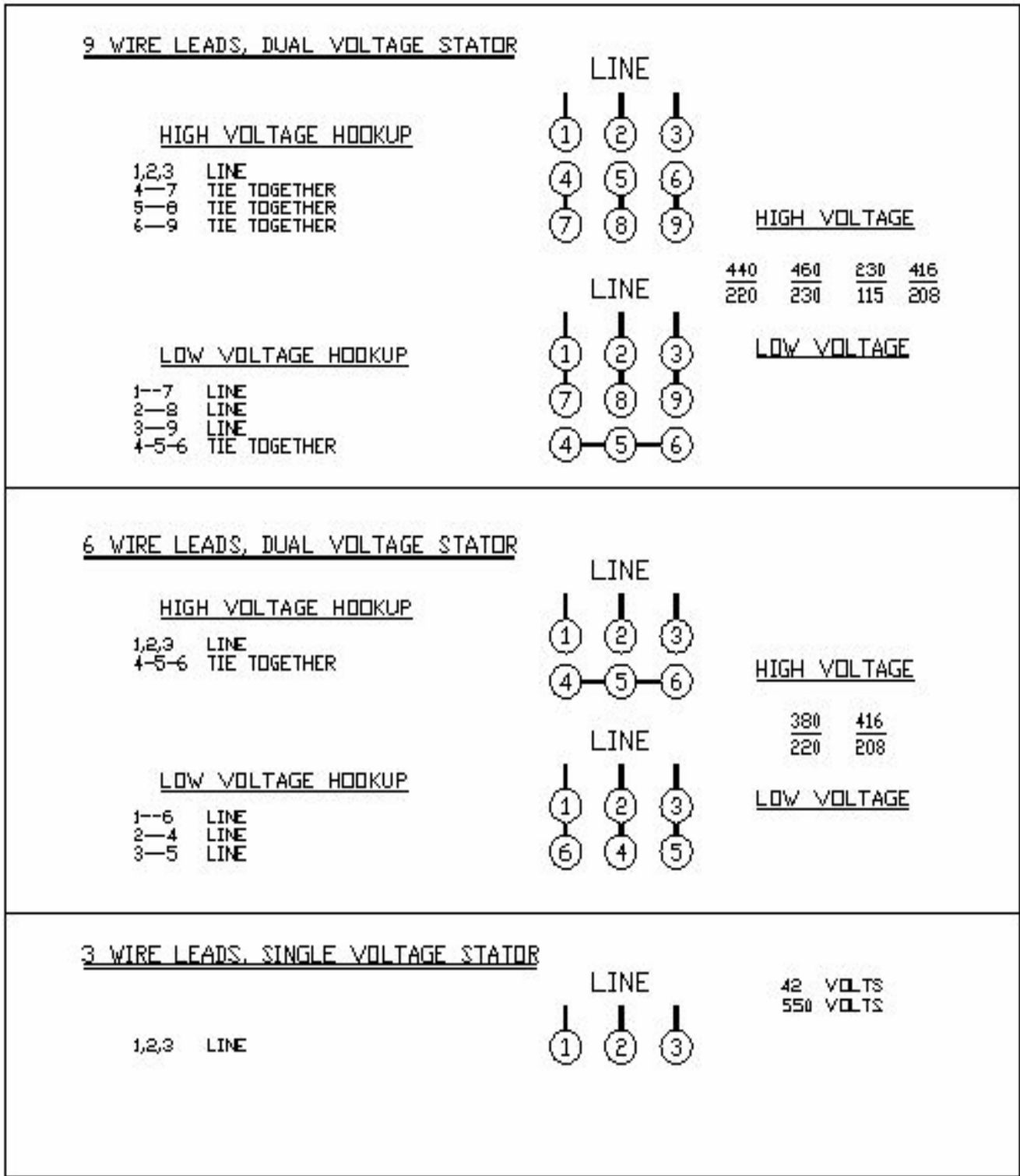
**Figure 28 WIRING – 3 PH – DIFFERENT CONTROL AND MOTOR VOLTAGE - Air Operated with Anti-Tie Down**



1. DO NOT ATTEMPT OR MAKE REPAIRS ON THE MACHINE WHILE POWER IS ON.
2. ALL ELECTRICAL WORK MUST BE PERFORMED BY A QUALIFIED ELECTRICIAN.
3. THE ELECTRICAL DIAGRAM SHOWS THE MACHINE IN THE "OFF" POSITION.

**To obtain the correct Kentmaster part number for 3-pole contactor and overload relay, please contact the Kentmaster representative.**

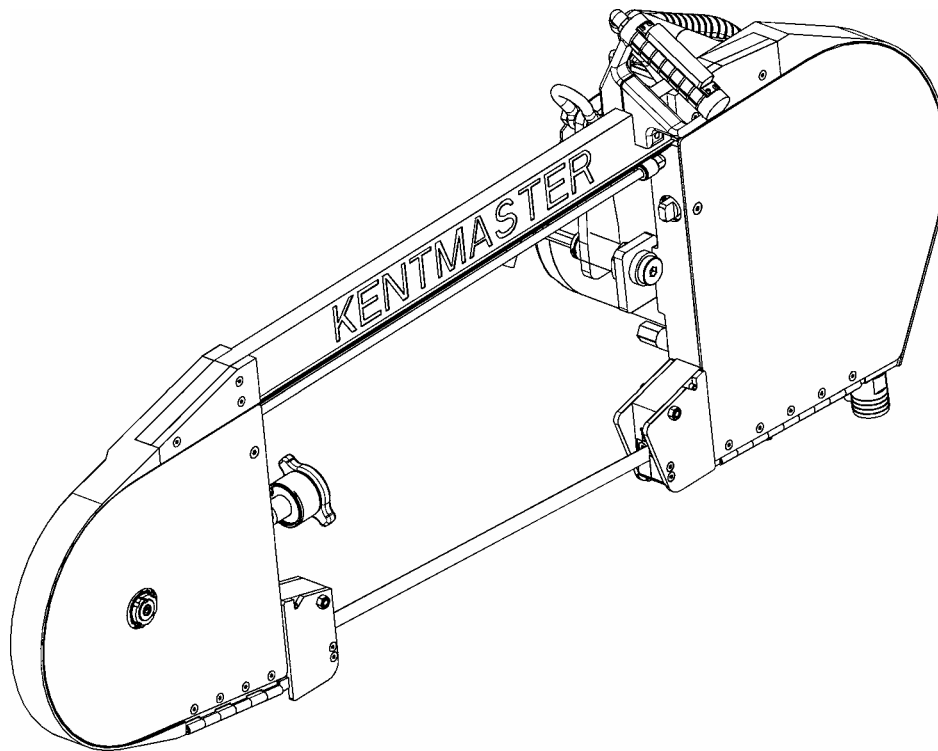
**Figure 29 WIRING – 3 PH – SAME CONTROL AND MOTOR VOLTAGE - Air Operated with Anti-Tie Down**



**Figure 30 ELECTRIC MOTOR LEAD HOOKUP DIAGRAM 3 PHASE MOTOR**

[ENGLISH]

## GENERAL INFORMATION



### MODELS

**BM-V-SB with Air CARCASS SPLITTING SAW (1708250)**  
**BM-V-S with Air CARCASS SPLITTING SAW (1708200)**  
**BM-V-SD with Air CARCASS SPLITTING SAW (1708300)**  
**BM-V-SDB with Air CARCASS SPLITTING SAW (1731000)**

### SERVICE CENTERS

**KENTMASTER LTD. (U.K)**  
 16 AVONBANK INDUSTRIAL CENTRE  
 WEST TOWN ROAD  
 AVONMOUTH - BRISTOL BS11 9DE  
 UNITED KINGDOM

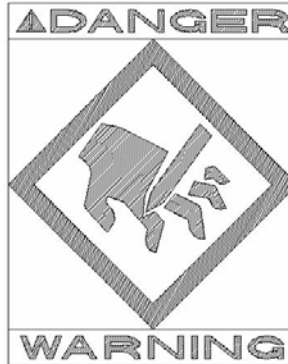
☎ TELEPHONE: ++ 44- (0) 117- 9235035  
 FAX: ++ 44- (0) 117- 9829010

**KENTMASTER MFG. CO., INC.**  
 1801 SOUTH MOUNTAIN AVE.  
 MONROVIA, CALIFORNIA 91016  
 UNITED STATES OF AMERICA

☎ TELEPHONE: (626) 359-8888  
 FAX: (626) 303-5151

**NOTICE TO EMPLOYER AND PURCHASER OF TOOL**  
**NOTICE TO SAFETY DIRECTOR**

**You have purchased a powerful tool that, if misused, can cause severe injury and harm to your employees. You must instruct your employees in the safe and proper use of this tool and to follow the safety procedures and instructions that have been supplied by the manufacturer of this tool. Please follow the following instructions.**



1. Instruct tool operators to test the tool each day before using it to be sure it does not malfunction. Remove and repair any tool that malfunctions.
2. Instruct tool operators to immediately stop using a tool that malfunctions or is defective.
3. Instruct personnel to immediately remove all tools that malfunction. Be sure to disconnect tool from power supply.
4. Instruct all personnel to stay clear of tool, and not to stand or walk in front of, or next to tool when in use.
5. Point out to all personnel the dangers related to the misuse of tool and the importance of following safety procedures and instructions.
6. Do not make, or allow others to make, alterations or modifications to this tool. Replace all lost or illegible labels.
7. Follow all safety, installation and maintenance instructions provided with this tool. Establish proper safety procedures in accordance with local and national requirements to prevent accidental energizing of tool that can cause injuries.
8. If this tool is sold or change in ownership takes place, you must provide the new owner all safety instructions, notices and maintenance instructions you were originally provided. You can obtain additional copies of the instructions from Kentmaster, free of charge upon request.
9. Give copies of instructions to: **(A) Tool Operators**  
**(B) Maintenance Supervisor**  
**(C) Clean-up Supervisor**




## GENERAL INFORMATION



### COVERING: SAFETY PRECAUTIONS AND PLACING INTO SERVICE ELECTRICAL POWERED CARCASS SPLITTING SAW

**READ THIS MANUAL CAREFULLY BEFORE INSTALLING, OPERATING OR SERVICING THIS TOOL**

IT IS THE RESPONSIBILITY OF THE EMPLOYER TO PLACE THIS INFORMATION INTO THE HANDS OF THE OPERATOR.

### **PLACING INTO SERVICE**

|  |   |
|--|---|
|  <b>WARNING</b> | = Hazards or unsafe practices which could result in severe personal injury, death or substantial property damage. |
|  <b>CAUTION</b> | = Hazards or unsafe practices which could result in minor personal injury, product or property damage.            |
|  <b>NOTICE</b>  | = Important installation, operation or maintenance information.   |

|  |   |
|--|---|
|  <b>WARNING</b> | Installation, adjustment repair and maintenance of this tool must be made by trained and qualified personnel.   |
|  <b>WARNING</b> | Always disconnect power supply from tool before: <ul style="list-style-type: none"> <li>(A) Installing or removing blade from tool.</li> <li>(B) Making repairs or adjustments to the tool.</li> <li>(C) performing maintenance or cleanup work.</li> </ul> |

## INSTALLATION INSTRUCTIONS

**ALL ELECTRICAL WIRING MUST BE DONE BY A LICENSED ELECTRICIAN IN ACCORDANCE WITH THE NATIONAL, STATE AND LOCAL ELECTRICAL CODES. (REFER TO NAMEPLATE ON TOOL FOR PROPER POWER CONFIGURATION).**

 **WARNING**

1. A BALANCER IS REQUIRED FOR OPERATION AND USE OF THIS TOOL. WEIGHT OF TOOL MUST FALL WITHIN WEIGHT RANGE OF BALANCER. "AIR-BALANCERS" WHICH OPERATE ON COMPRESSED AIR, ARE HIGHLY RECOMMENDED FOR USE WITH BANDMASTER SAWS. THEY PROVIDE LONG TRAVEL AND VERY SMOOTH, UNIFORM RISE AND FALL. THEY CAN BE INTERFACED WITH THE OPERATION OF THE SAW.
2. INSTALL BALANCER ABOVE WORK AREA. BALANCER MUST HAVE SUFFICIENT VERTICAL TRAVEL SO OPERATOR CAN REACH ENTIRE WORK AREA WITH TOOL WITHOUT STRAIN.
3. ADJUST BALANCER ACCORDING TO THE OPERATOR'S PREFERENCE AND COMFORT.
4. TOOL REQUIRES GREASING AFTER EVERY 40 HOURS OF OPERATION. GREASE USING KENTMASTER GREASE (PART NO. 7903070).

**WE STRONGLY SUGGEST THAT AN ADDITIONAL SAFETY CHAIN BE USED TO CHAIN BALANCER TO OVERHEAD TROLLEY. THIS ADDITIONAL MEASURE OF SAFETY WILL HELP REDUCE INJURIES.**

 **WARNING**

## OPERATING INSTRUCTIONS

**ONLY TRAINED PERSONNEL ARE TO OPERATE THIS TOOL.**

**⚠ WARNING**

1. HOLD TOOL FIRMLY AT BOTH TRIGGER HANDLES. SQUEEZE TRIGGERS SIMULTANEOUSLY TO ACTIVATE TOOL.
2. START CUT WITH SAW NOSE POINTED UP AT AN ANGLE.
3. LEVEL SAW TO HORIZONTAL POSITION IN LOIN AREA.
4. POINT NOSE OF SAW AT DOWNWARD ANGLE IN CHUCK AND NECK AREA.
5. A BEGINNING SPLITTER CAN MARK BACKFAT OF BEEF WITH A KNIFE TO HELP GUIDE SAW DOWN CENTER OF BACKBONE AND UNTIL OPERATOR IS FAMILIAR WITH SPLITTING PROCEDURE.
6. DO NOT EXERT EXCESSIVE PRESSURE. ALLOW TIME FOR THE TOOL TO CUT.
7. PUSH SAW FORWARD SO THAT GUARDS, ITEMS 1 AND 2, FIGURE 1, RIDE AGAINST BEEF. THIS HELPS STEADY SAW IN CUT AND HELPS ELIMINATE BLADE JUMPING AND CHATTERING.

## MAINTENANCE

**ONLY TRAINED AND QUALIFIED PERSONNEL ARE TO PERFORM MAINTENANCE AND SERVICE TO THIS TOOL.**

**⚠ WARNING**

1. FOLLOW PROCEDURE NO. 4 OF INSTALLATION INSTRUCTIONS.

## BLADE REMOVAL AND CLEANING.

**ALWAYS DISCONNECT POWER SUPPLY FROM TOOL BEFORE INSTALLING OR REMOVING BLADE FROM TOOL.**

**⚠ WARNING**

**ALWAYS WEAR WIRE MESH GLOVES WHEN INSTALLING OR REMOVING BLADES FROM TOOL.**

**⚠ WARNING**

1. REMOVE PAPER WRAPPER FROM BLADE.
2. OPEN COVERS, FIGURE 1, ITEMS 3 AND 4.
3. INSTALL TORQUE WRENCH INTO SCREW, FIGURE 1, ITEM 5, AND TURN COUNTER-CLOCKWISE (CCW). THIS ALLOWS TAKE-UP WHEEL AND SLIDE, ITEM 7 AND 8, TO RETRACT.
4. SLIDE TAKE-UP WHEEL TO RIGHT.
5. HOLD BLADE, WITH TEETH FACING AWAY FROM YOU, AND INSTALL INTO SLOT OF BEAM, CONTINUING AROUND AND OVER THE TAKE-UP AND DRIVE WHEELS.
6. TURN TORQUE WRENCH CLOCKWISE (CW) TO ELIMINATE BLADE SLACK AND TIGHTEN TAKE-UP WHEEL AGAINST BLADE (TORQUE WRENCH IS PRESET AT FACTORY AND WILL SLIP AFTER PLACING PROPER TENSION ON BLADE).
7. TWIST BLADE 90 DEGREES AT BLADE GUARDS AND INSERT BLADE INTO SLOTS WITH TEETH FACING DOWNWARD.
8. TURN DRIVE WHEEL, ITEM 9, SLOWLY BY HAND, ONE OR TWO TURNS TO CHECK TRACKING OF BLADE ON WHEELS.
9. RETORQUE AGAIN UNTIL TORQUE WRENCH SLIPS.

## SERVICE

1. KEEP GOOD RECORDS OF ALL SERVICE ACTIVITY AND INCLUDE TOOL IN YOUR PREVENTIVE MAINTENANCE PROGRAM.
2. USE ONLY GENUINE KENTMASTER REPLACEMENT PARTS TO ASSURE PROPER PERFORMANCE OF TOOL.
3. CONTACT THE KENTMASTER SUPPLIER NEAREST YOU FOR PARTS AND CUSTOMER SERVICE INFORMATION.

**DECLARATION OF CONFORMITY**

**DECLARATION OF CONFORMITY**

DECLARATION DE CONFORMITE -DECLARACION DE CONFORMIDAD- ERKLARUNG BEZUGLICH EINHALTUNG DER VORSCHRIFTEN  
 DICHIARAZIONE DI CONFORMITA . CONFORMITEITSVERKLARING

**MANUFACTURED BY:**

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**TYPE / SERIES: CARCASS SPLITTING SAW**

TYPE / SERIE:  
 TIPO / SERIE:  
 TYP / SERIE:  
 TIPO / SERIE:  
 TYPE / SERIE:

**MODEL: BM-V-S with Air, BM-V-SB with Air, BM-V-SD with Air, BM-V-SDB with Air**

MODELE:  
 MODELO:  
 MODELL:  
 MODELLO:  
 MODEL:

**SERIAL NO. RANGE: XXXXX**

N SERIE: • GAMA DE No. DE SERIE: • SERIEN-NR.-BEREICH: • NUMERI DI SERIE: • SERIENUMMERS:

**This product complies with the following European Community Directives:**

Ce produit est conforme aux directives de la Communauté européenne suivantes:  
 Este producto cumple con las siguientes Directrices de la Comunidad Europea:  
 Dieses Produkt erfüllt die folgenden Vorschriften der Europäischen Gemeinschaft:  
 Questo prodotto e conforme alle seguenti direttive CEE:  
 Dit produkt voldoet aan de volgende EG-richtlijnen:

**2004/108/EC, 2006/95/EC, 2006/42/EC**

**The following Standards were used to verify compliance with the Directives:**

Les normes suivantes ont été utilisées pour vérifier la conformité avec les Directives:  
 Las siguientes Normas se usaron para verificar el cumplimiento de las Directrices:  
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 Per verificare la conformità del prodotto alle direttive sono stati usati i seguenti standard:  
 De volgende normen zijn gebruikt om naleving van de richtlijnen te bevestigen:

**EN 12984**

**Approved by:** \_\_\_\_\_

**Date:** MARCH-03-2010

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