NEW EQUIPMENT WARRANTY

We warrant that this equipment from U.S. Stoneware Corporation is within stated specifications and is free from defects in materials and workmanship.

Our obligation under this warranty is limited to repairing or replacing F.O.B. our factory and defective parts in this product that to our satisfaction existed at time of shipment, provided the purchaser gives us written notice immediately upon discovery thereof, or in any event within one year from time of shipment.

Our warranty does not cover work or replacement of parts made necessary by carelessness, misuse, accident or by incidents which occur outside of use of the instrument such as water damage, lightning, etc. U.S. Stoneware's liability under this warranty shall not exceed the cost of correcting defects whether it is the correction of the defects or the replacement of the product. Claims based on any defect must be made in writing within 30 days of the purchaser's becoming aware of that defect for this warranty to apply. U.S. Stoneware assumes no liability for consequential or special damages in connection with this contract.

U.S. Stoneware shall have no liability for damages of any kind arising from the installation and / or use of this equipment by anyone. The purchaser, by the acceptance of this equipment, will assume all liability for any damages which may result from its use or misuse.

This is our sole warranty with respect to this equipment. We make no other warranty of any kind whatever, express or implies, and all implied warranties of merchantability and fitness for a particular purpose which exceeds the above obligations are hereby disclaimed by U.S. Stoneware Corporation.

600 East Clark Street * East Palestine, OH * 44413 * 1-800-426-8808 * Fax (330)-426-1859

INSTRUCTIONS FOR INSTALLATION,
OPERATION AND MAINTENANCE OF
MODEL 764 AV-XP JAR MILL

INSTALLATION:

* After placing machine in the desired location, position it so that the rolls are level. (Leveling feet are provided for this purpose)
* Connect wires according to the schematic located on the motor nameplate or terminal box cover. (May be on inside of cover) Use seal-offs as required for XP applications.

Note: Proper rotation should be such that the top of the drive roller turns toward the jar being turned. (CW rotation when viewed from drive end of roller)

OPERATION:

* Refer to the enclosed chart to adjust the idle roller to the size of jar being used.
* To adjust the idle roller, remove the retaining bolts, etc. and move the roller to desired location. Replace the bolts, etc. and tighten into place.
* Roller speed is controlled by the hand wheel located on the front of the machine.

LUBRICATION:

* The motor and bearings are lubricated for life.
* Roller Chain - lubricate bi-weekly with an SAE #30 weight oil.

Note: New chains will loosen up slightly as the joints seat themselves causing initial elongation which is many times greater than the elongation during the balance of chain life. To adjust the chain tension, loosen the nuts on the retaining bolts and apply a downward pressure to the sub-assembly. (Speed reduction) Once desired chain tension is achieved, re-tighten the nuts on the retaining bolts.

REPLACEMENT PARTS:

* Parts can be identified by referring to the assembly drawing. To order replacement parts, please include the part number, part name, and serial number of the machine.

Thank You For Purchasing A Quality Built U.S. Stoneware Product!!

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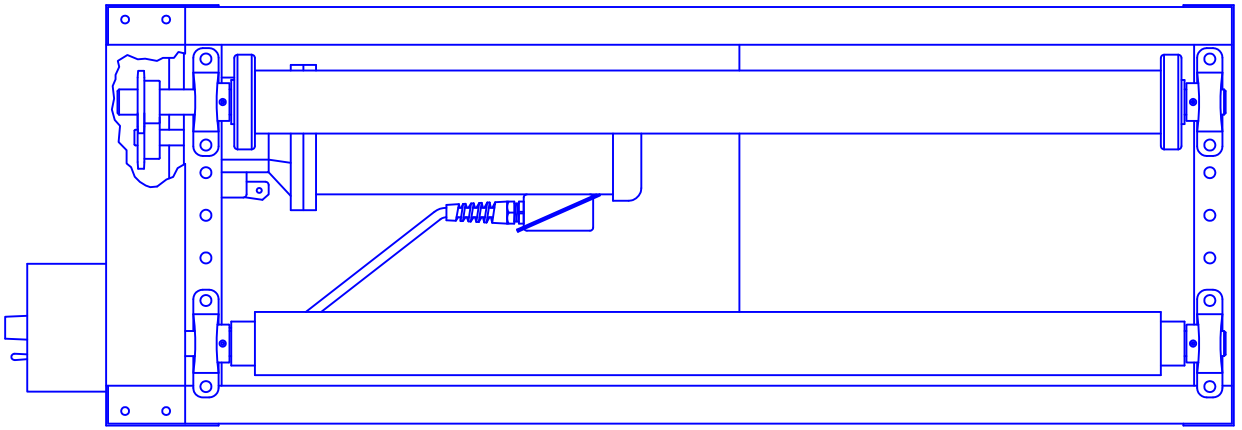
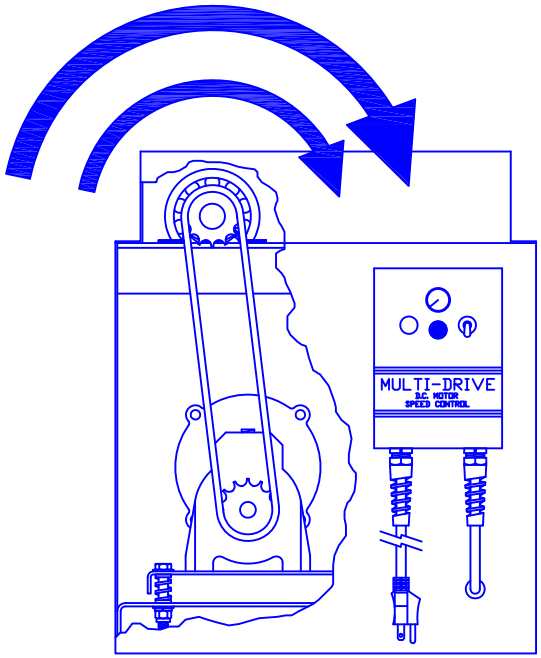
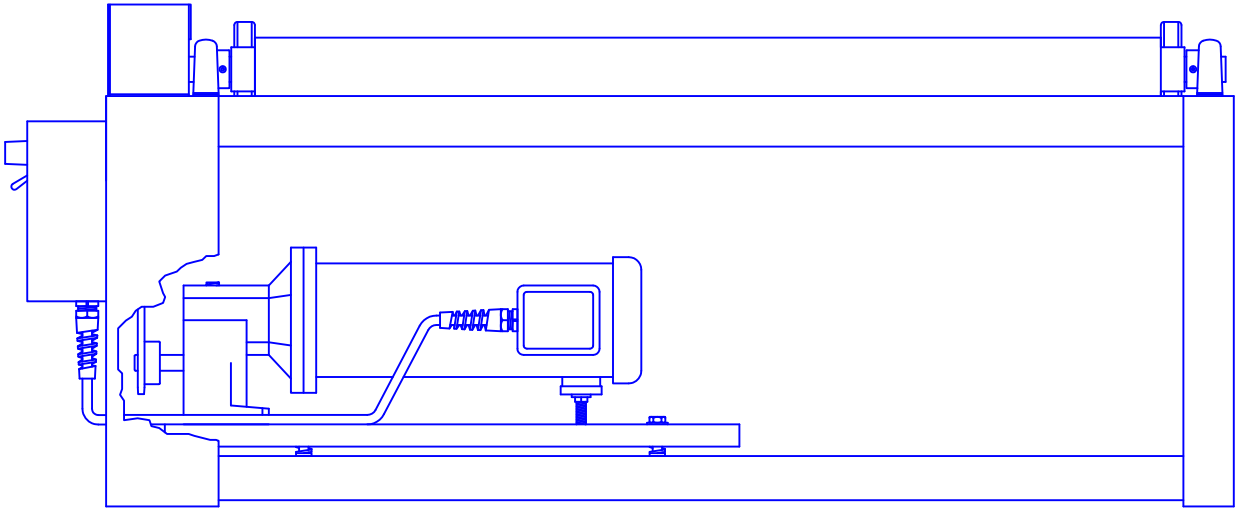
ARROWS INDICATE THE PROPER ROTATION FOR THE DRIVE ROLLER ON ALL JAR MILL MODELS.

IF THE ROLLER IS TURNING IN THE OPPOSITE DIRECTION THE MACHINE WILL HAVE THE TENDENCY TO "THROW" THE VESSEL BEING TURNED, OR EXCESSIVE "WALKING" OF THE VESSEL WILL OCCUR.







MANUFACTURING STANDARDS	
ALL WELDS TO CONFORM TO AWS D1.1–LATEST REVISION	
UNTOLERANCED FABRICATED DIMENSIONS	
.X = +.020	PROPRIETARY NOTICE
.XX = +.010	THE SUBJECT AND MATERIALS SHOWN ARE EXCLUSIVE PROPERTY OF U.S. STONEWARE CORP. REPRODUCTION OF THIS DRAWING IN WHOLE OR PART OR ANY UNAUTHORIZED UTILIZATION IS STRICTLY PROHIBITED WITHOUT SPECIFIC WRITTEN PERMISSION.
.XXX = +.005	
FRACTIONS = +1/32	
ANGLES = +1/2	

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600 EAST CLARK STREET
EAST PALESTINE, OHIO 44413

JOB NO.

SCALE: N/A

DRAWING OF:

CORRECT DRIVE ROTATION FOR ALL JAR MILLS

DRAWN BY: G.L.G. DATE 10/30/2008

CHECKED BY XXXX DATE XXXX

DRAWING NO. DRIVEROTATION

OF SHEETS

SHEET NO.

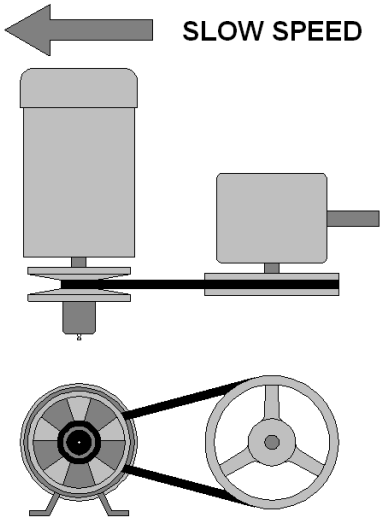
INSTRUCTIONS FOR CHANGING SPEED ON UNITS WITH MECHANICAL SPEED ADJUSTMENT

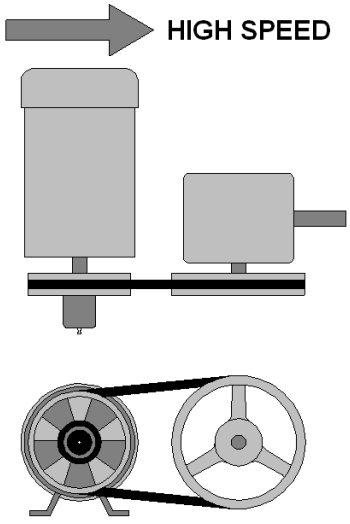
This machine is equipped with a mechanical speed adjustment drive; the following instructions must be followed to prevent damage to the drive and / or other components.

These drives offer the ability to adjust the speed of the machine by varying the pitch diameter of the drive sheave.

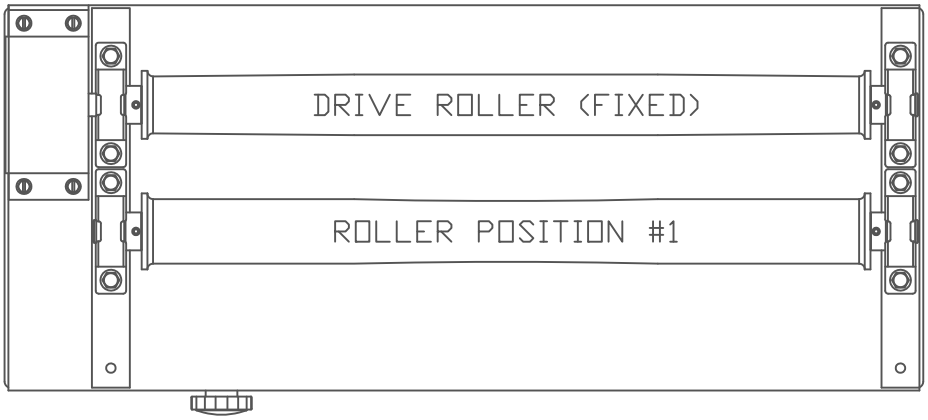
IMPORTANT! – These drive sheaves must be adjusted only while the drive is in operation. Do not turn the speed adjustment knob for any reason without first turning on the machine.

Please refer to the maintenance schedule regarding lubrication instructions for applicable sheaves.

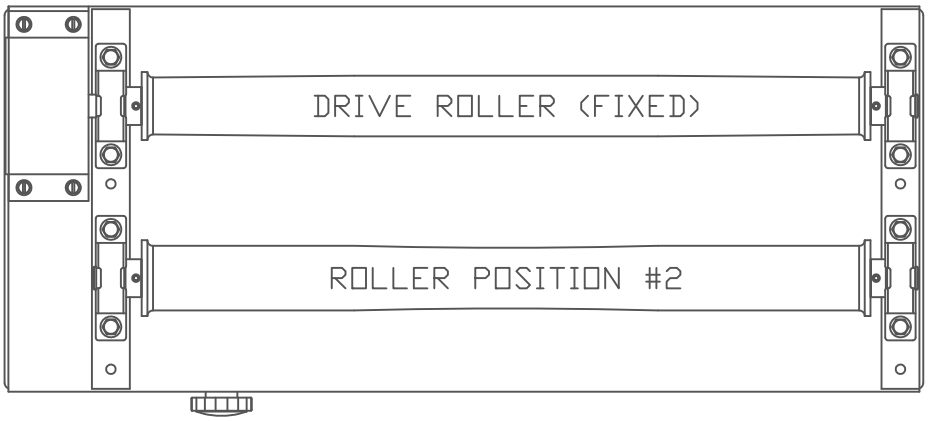




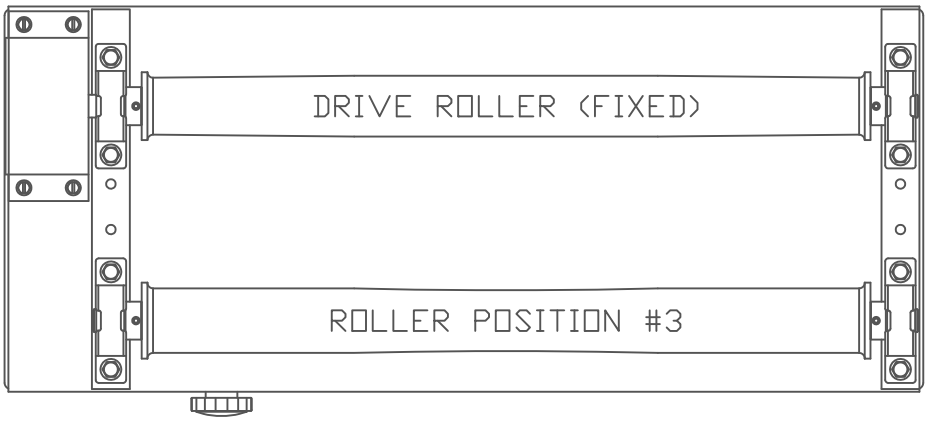
764 AV-XP JAR MILL
ROLLER POSITIONS



SUGGESTED JAR
DIAMETERS 2 1/2″-4″



SUGGESTED JAR
DIAMETERS 4″-7″



SUGGESTED JAR
DIAMETERS 7″-10″

U.S. STONEWARE™

Recommended Jar / Roller Speeds

For Optimum Grinding Efficiency

Jar Model & Size	Recommended Jar Speed	Roll Speed (700 Series)	Roll Speed (800 Series)
774 – 000	106.46	180	144
774 – 00	77.14	222	177
774 – 0	75.28	235	188
774 – 1	60.98	274	220
774 – 2	54.54	300	240
774 – 3	49.79	**N/A**	259
774 – 4	46.10	**N/A**	277
774 – 6	46.10	**N/A**	277
773 – 00	75.28	240	192
773 – 1	60.98	288	230
773 – 3	51.14	**N/A**	266
611 – 00	72.63	218	174
611 – 0	72.63	218	174
611 – 1	62.39	250	200
611 – 2	55.56	278	222
611 – 3	55.56	278	222
611 – 4	50.56	**N/A**	243
611 – 6	46.70	**N/A**	262
612 – 00	72.92	229	183
612 – 0	72.92	229	183
612 – 1	62.59	261	209
612 – 2	55.69	284	227

774 – Roalox

773 – High Alumina

611 – Stainless Steel

612 – Rubber Lined Carbon Steel Jar

N/A – Jar Size Not Recommended For This Machine

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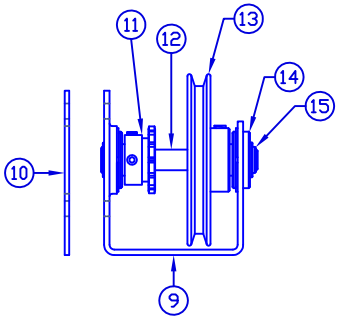
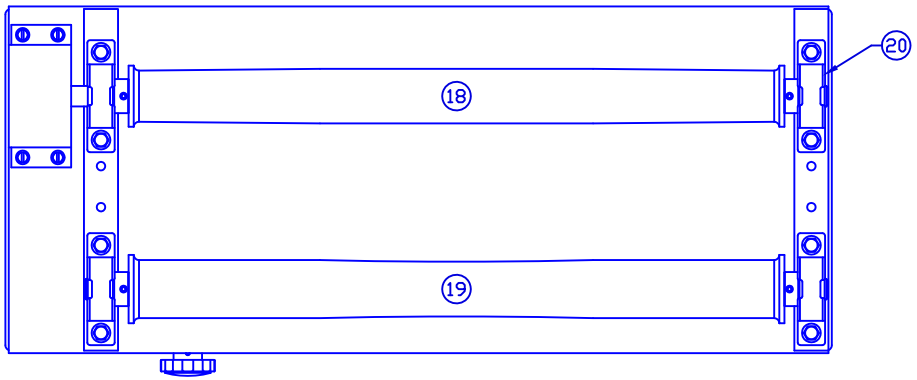
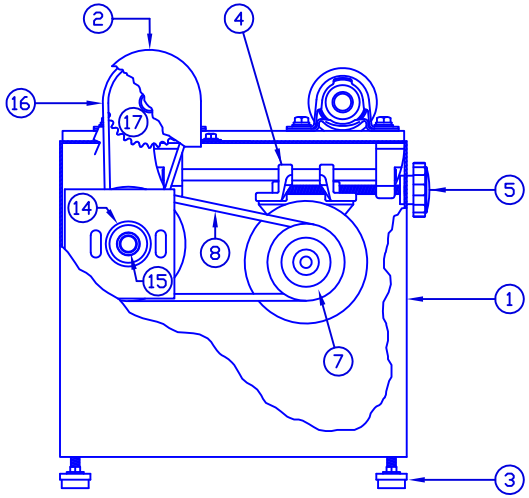
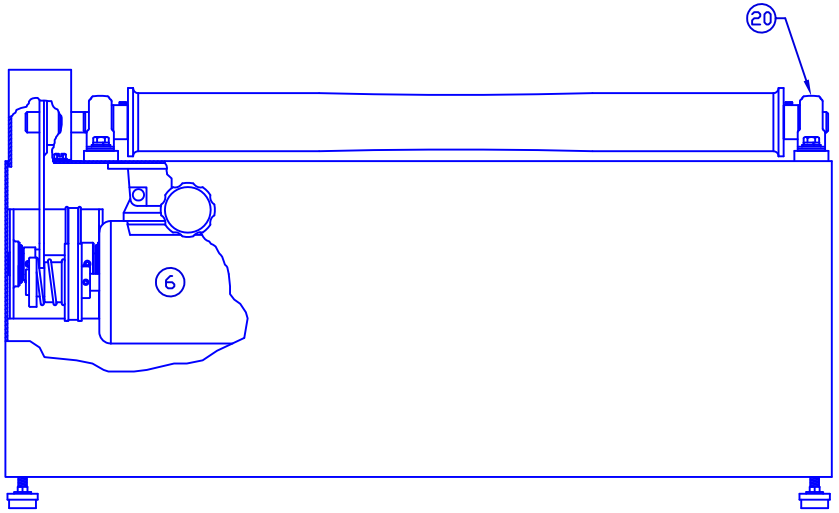
ITEM	QTY.	PART NUMBER	DESCRIPTION
1	1	P90309	MACHINE BASE 764 XP
2	1	P90301	TOP GUARD
3	4	P05402	LEVELER FOOT
4	1	P07910	SLIDING MOTOR BASE
5	1	P05226	HAND WHEEL – FLUTED
6	1	P13440–F2	MOTOR 1/4 HP XP – F2 MOUNT
7	1	P05304	VARIABLE SPEED DRIVE PULLEY
8	1	P14703	V–BELT
9	1	P90202	BEARING BRACKET (SUB ASSEMBLY)
10	1	P90203	RUBBER SHIM FOR SUB ASSEMBLY
11	1	P06202	DRIVE SPROCKET
12	1	P05208	SHAFT 1/2" X 3 5/8
13	1	P06310	DRIVEN SHEAVE
14	2	P06506	BEARINGS (SUB ASSEMBLY)
15	2	P05206	BEARING INSERT – NYLON
16	18	P06214	ROLLER CHAIN
17	1	P06209	DRIVEN SPROCKET
18	1	P07450	DRIVE ROLLER
19	1	P07460	IDLE ROLLER
20	4	P06532	PILLOW BLOCK BEARINGS – 3/4"









REV	DATE	BY	DESCRIPTION
REVISION RECORD			

MANUFACTURING STANDARDS
ALL WELDS TO CONFORM TO AWS D1.1–LATEST REVISION
UNTOLERANCED FABRICATED DIMENSIONS
.X = ±.020
.XX = ±.010
.XXX = ±.005
FRACTIONS = ±1/32
ANGLES = ±1/2°

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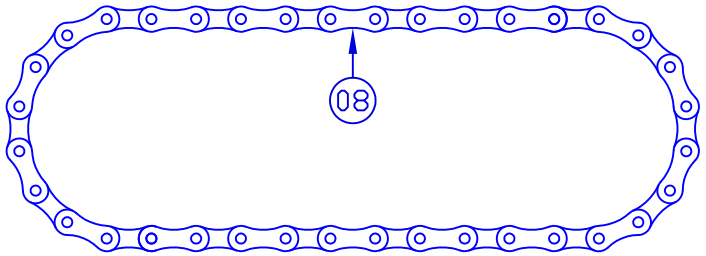
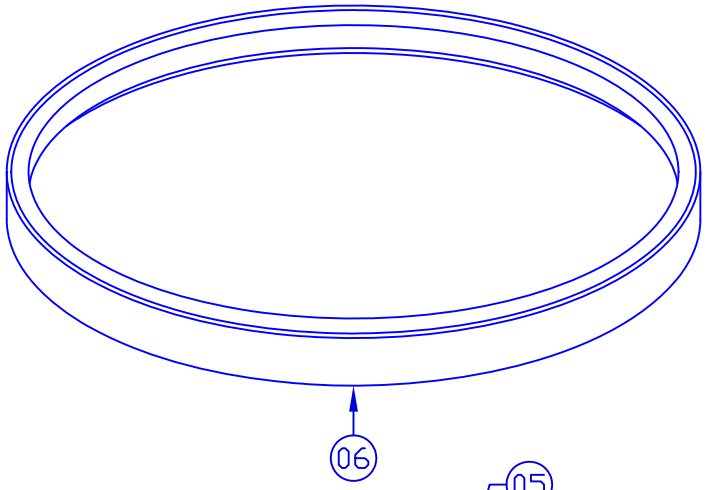
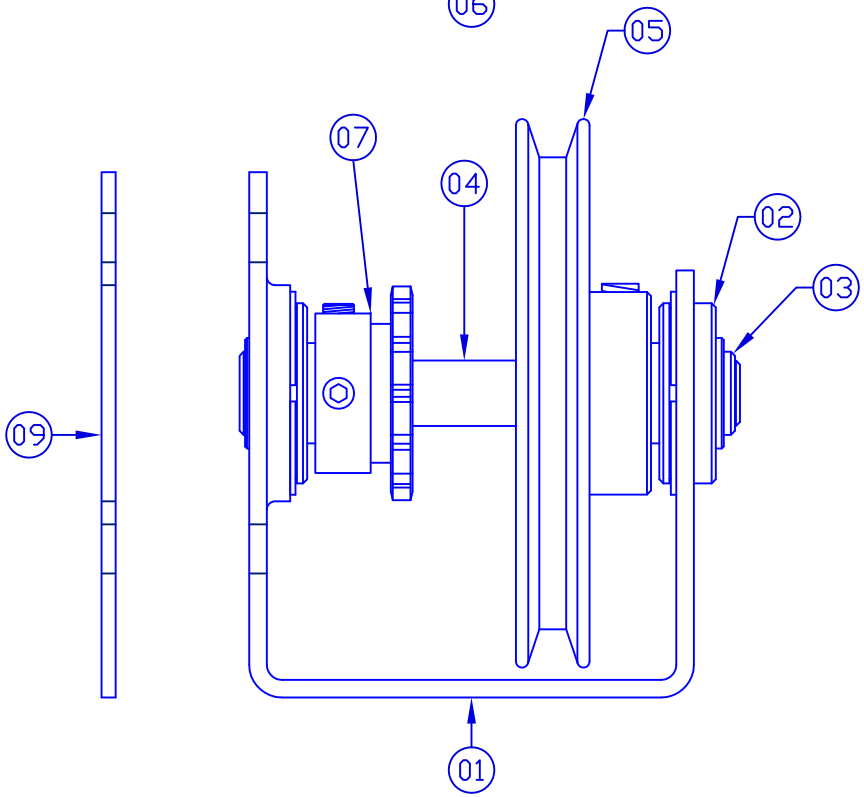
JOB NO. M93174
SCALE: N/A
DRAWING OF:
GENERAL ASSEMBLY AND PART I.D. FOR 764AV–XP
DRAWN BY: G.L.G. DATE: 04/04/2008
DRAWING NO.: 764AVXPPTID
NO. OF SHEETS | SHEET NO.





ITEM#	PART#.	DESCRIPTION
01	P90202	BEARING BRACKET
02	P06506	BEARINGS
03	P05206	NYLON INSERTS
04	P05208	SHAFT
05	P06310	DRIVEN PULLEY
06	P14703	V-BELT
07	P06202	DRIVE SPROCKET
08	P06214	ROLLER CHAIN
09	P90203	RUBBER SHIM



REV	DATE	BY	DESCRIPTION
REVISION RECORD			

MANUFACTURING STANDARDS

ALL WELDS TO CONFORM TO AWS D1.1-LATEST REVISION

UNTOLERANCED FABRICATED DIMENSIONS

.X = ±.020

.XX = ±.010

.XXX = ±.005

FRACTIONS = ±1/32

ANGLES = ±1/2°

JOB NO. XXX

SCALE: N/A

DRAWING OF:

GENERAL ASSY & PARTS LIST
FOR 764 AV-XP SUB-ASSEMBLY

DRAWN BY: G.L.G. DATE: 01/03/2008

CHECKED BY: XX DATE: XXXXXX

DRAWING NO.: 764XPSUB-ASSY

NO. OF SHEETS | SHEET NO.

General Motor Maintenance

Introduction

1. Motors, properly selected and installed, are capable of operating for many years with a reasonably small amount of maintenance.

2. Before servicing a motor or motor-operated equipment, disconnect the power supply from motors and accessories. Use safe working practices during servicing of the equipment.

3. Clean motor surfaces and ventilation openings periodically, preferably with a vacuum cleaner. Heavy accumulations of dust and lint will result in overheating and premature motor failure.

Lubrication Procedure

Motors 10 HP and smaller are usually lubricated at the factory to operate for long periods under normal service conditions without re-lubrication. Excessive or too frequent lubrication may actually damage the motor. Follow instructions furnished with the motor, usually on the nameplate or terminal box cover or on a separate instruction. If instructions are not available, re-lubricate according to the following chart. Use high quality ball bearing grease. Grease consistency should be suitable for the motor's insulation class. For Class B, F or H use a medium consistency polyurea grease such as Shell Dolium R.

If the motor is equipped with lubrication fitting, clean the fitting tip and apply grease gun. Use 1 to 2 full strokes on NEMA 215 frame and smaller motors. Use 2 to 3 strokes on NEMA 254 through NEMA 365 frame. Use 3 to 4 strokes on NEMA 404 frames and larger. For motors that have grease drain plugs, remove the plugs and operate the motor for 20 minutes before replacing the plugs.

For motors equipped with slotted head grease screws, remove the screw and insert a two to three-inch long grease string into each hole on motors in NEMA 215 frame and smaller.

Insert a three to five-inch length on larger motors. For motors having grease drain plugs, remove the plug and operate the motor for 20 minutes before replacing the plugs.

Relubrication Intervals Chart For Motors Having Grease Fittings

Hours of Service Per Year	HP Range	Hours of Relube Value
5000	**1/18 to 7 1/2** **10 to 40** **50 to 100**	**5 years** **3 years** **1 years**
Continuous Normal Applications	**to 7 1/2** **10 to 40** **50 to 100**	**2 years** **1 years** **9 months**
Seasonal Service - Motor is idle for 6 months or more	**ALL**	**1 year (beginning of season)**
Continuous high ambient, high vibration or where shaft end is hot	**1/8 to 40** **50 to 150**	**6 months** **3 months**

Caution: Keep grease clean. Lubricate motors at a standstill. Do not mix petroleum grease and silicone grease in motor bearings.