

## Chelsea PTO 863 Parts Manual

Pro Gear Chelsea 863 Series PTO parts manual to assist in identifying the parts for your Chelsea Power Take Off unit.

If you need any assistance identifying the correct Power Take Off unit for your truck and equipment, contact your Chelsea replacement part specialists at Pro Gear and Transmission.

Pro Gear stocks every part for your Parker Chelsea PTO including: PTO housings, mounts, driveshafts, gears, bearings, gaskets, cable shift cover assembly, post and plate assembly, brackets, stud kits, seal kits, lever control assembly, air shift cover assembly, direct mount pump conversion kits, stud kits including English and metric references, CAT D&H parts and much more.

Pro Gear Transmission has same day shipping and 1000's of products in stock and ready to ship internationally for your next project.

For parts or service contact the Chelsea specialists at Pro Gear & Transmission, Inc.

1 (877) 776-4600  
(407) 872-1901  
parts@eprogear.com



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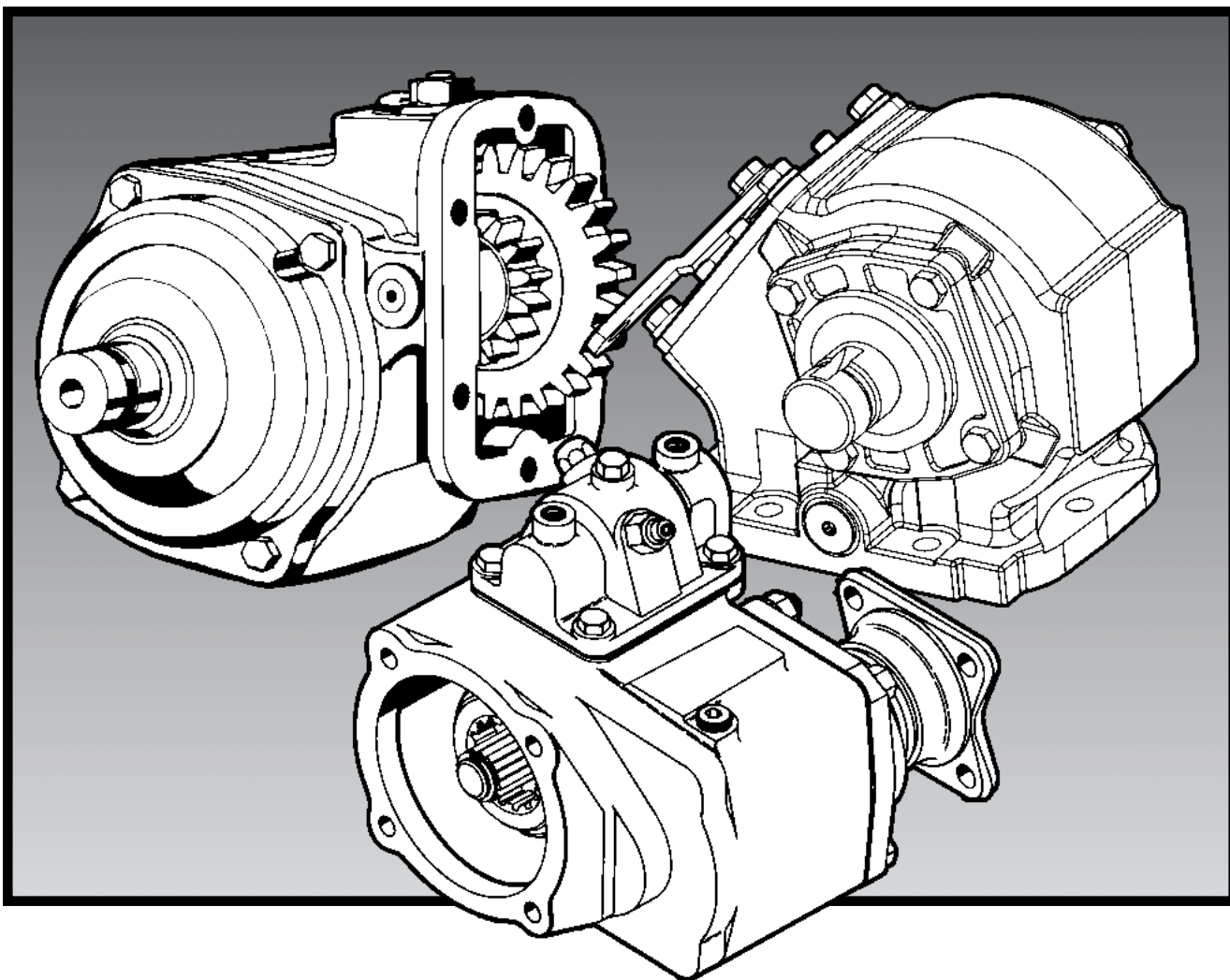
# **CHELSEA<sup>®</sup>**

## **Parts List**

### **863 Series**

Bulletin HY25-2863-M1/US

Effective: February 15, 2002 Supersedes:  
P410-862 Dated December 1981





## **WARNING**

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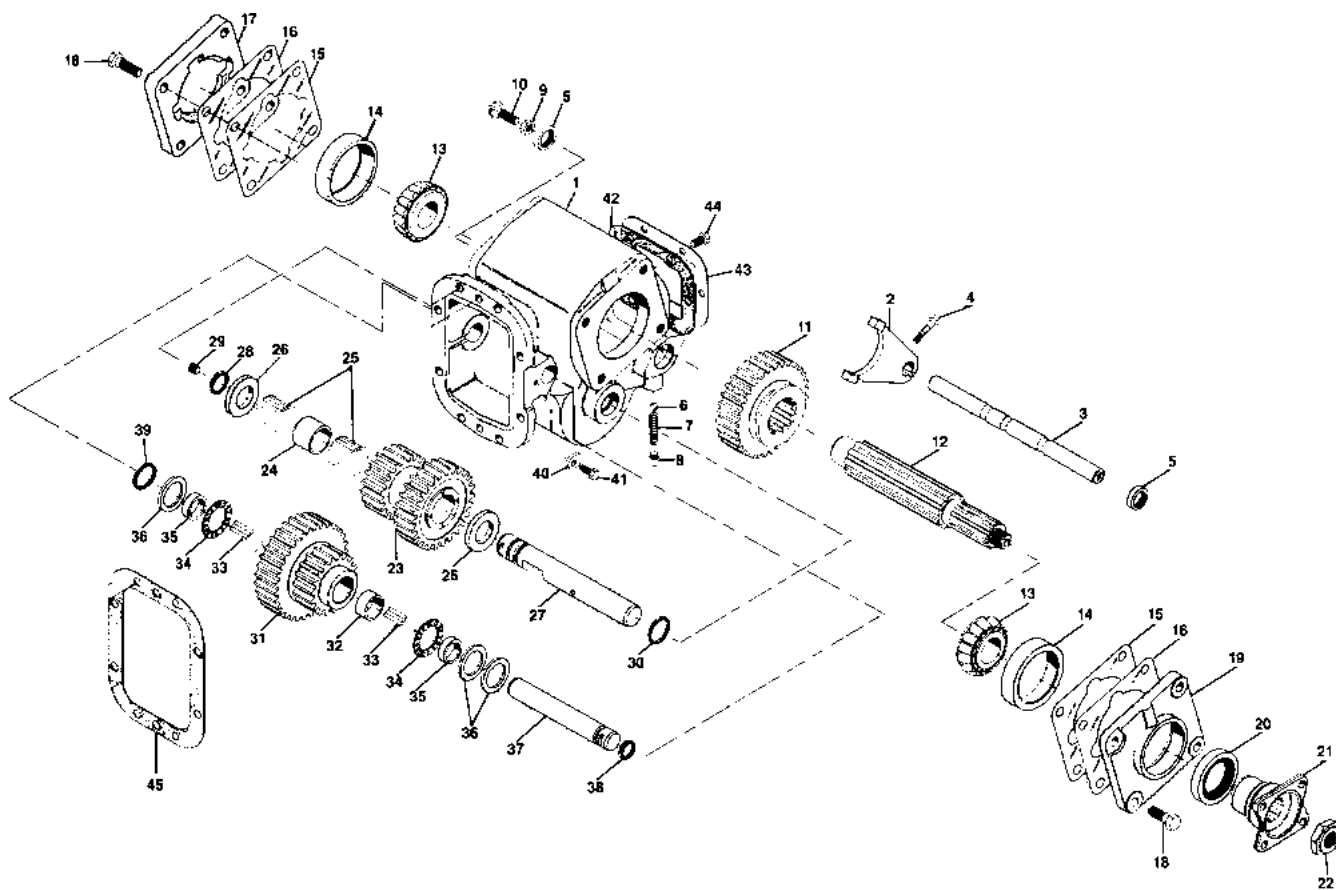
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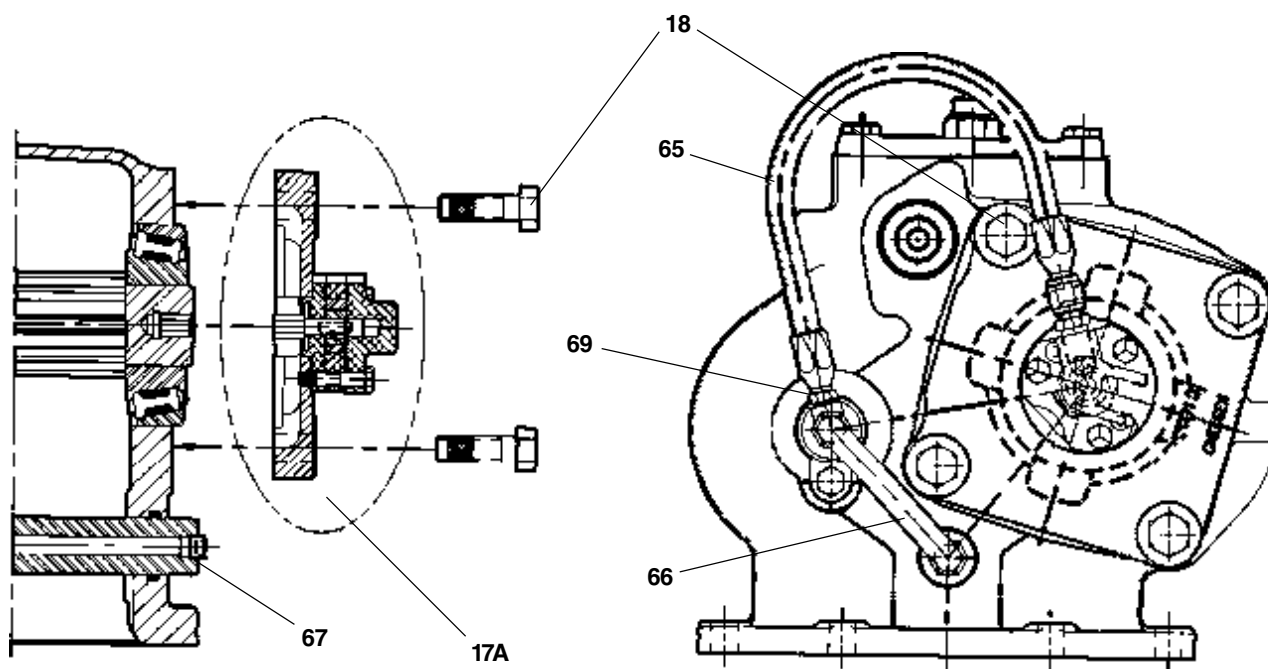


**Bill of Materials****Power Take-Off****863 Series**

Item	Part Number	Description	Quantity
1	<b>1-P-134</b>	Housing .....	1
2	<b>32-P-122</b>	Shifter Fork .....	1
3	<b>11-P-137</b>	Shifter Shaft .....	1
4	<b>378916</b>	Screw, Hex Head (.375" - 24 X 1.375" With Patch) .....	1
5	<b>28-P-218</b>	Oil Seal .....	2
6	<b>378002</b>	Shifter Ball .....	2
7	<b>37-P-51</b>	Shifter Spring .....	2
8	<b>38-P-8</b>	Spring Cap (.50"-20) .....	2
9	<b>500381-3</b>	Jam Nut, Hex Head (.375" -24) .....	1
10	<b>36-P-1</b>	Eye Bolt (.375" -24) .....	1
11	<b>2-P-312</b>	Gear, Output .....	1
12	<b>3-P-359</b>	Drive Shaft, Output .....	1
	<b>3-P-867</b>	Drive Shaft (Self Lube "LG") .....	
13	<b>560945</b>	Bearing Cone .....	2
14	<b>560946</b>	Bearing Cup .....	2
15	<b>55-P-6-1</b>	Plastic Shim (.003") .....	A.R.
	<b>55-P-6-2</b>	Plastic Shim (.010") .....	A.R.
16	<b>55-P-19</b>	Shim Gasket .....	2
17A	<b>329105X</b>	Lube Pump & Bearing Cap Assy ("LG") page 3 .....	1 or
17	<b>21-P-66</b>	Bearing Cap, Closed End .....	1
18	<b>378433-14</b>	Screw, Hex Head (.50"-13 X 1.5") .....	8
19	<b>21-P-65</b>	Bearing Cap, Output .....	1
20	<b>28-P-211</b>	Oil Seal .....	1
21	<b>3-1-3431</b>	Companion Flange, 1410 Series .....	1
22	<b>378382</b>	Nut, Hex Head .....	1
23	<b>33-P-53</b>	Gear, Reverse Idler .....	1
	<b>328368-1X</b>	<b>REVERSE IDLER NEEDLE BEARING SERVICE KIT</b> (Contains Items 24-26) .....	1
24	<b>14-P-28</b>	Needle Bearing Spacer, Reverse Idler .....	1
25	<b>378389</b>	Needle Bearing (Two Sets, 24 Per Set) .....	48
26	<b>4-P-50</b>	Spacer .....	2
27	<b>9-P-30</b>	Shaft, Reverse Idler .....	1
	<b>9-P-73</b>	Shaft, Reverse Idler (Self Lube "LG") .....	
28	<b>28-P-247</b>	O-Ring (1.25" Outside Diameter) .....	1
29	<b>500132-3</b>	Oil Plug (.125"-27) .....	1
30	<b>28-P-241</b>	O-Ring (1.5" Outside Diameter) .....	1
31	<b>See Chart Pg. 4</b>	Gear, Input .....	1
	<b>328368X</b>	<b>INPUT NEEDLE BEARING SERVICE KIT</b> (Contains Items 32-33) .....	1
32	<b>14-P-27</b>	Needle Bearing Spacer, Input .....	1
33	<b>378389</b>	Needle Bearing (Two Sets, 21 Per Set) .....	42
	<b>328678-10X</b>	<b>INPUT SHAFT THRUST BEARING SERVICE KIT</b> (Contains Items 34-36) .....	1
34	<b>378769</b>	Thrust Bearing Washer .....	2
35	<b>14-P-51</b>	Needle Bearing Spacer, Input .....	2
36	<b>31-P-55</b>	Thrust Race .....	3
37	<b>9-P-28</b>	Shaft, Input .....	1
	<b>9-P-77</b>	Shaft, Input (Self Lube "LG") .....	
38	<b>28-P-240</b>	O-Ring (1.125" Outside Diameter) .....	1
39	<b>28-P-239</b>	O-Ring (1.3125" Outside Diameter) .....	1
40	<b>27-P-9</b>	Retainer Plate .....	2
41	<b>378430-8</b>	Screw, Hex Head (.3125" - 18 X .75") .....	2
42	<b>35-P-59</b>	Cover Gasket (.032") .....	1
43	<b>34-P-124</b>	Cover .....	1
44	<b>378431-10</b>	Screw, Hex Head (.375"-16 X 1.00") .....	6
		<b>LOOSE PARTS</b>	
45	<b>328948-8X</b>	8 Bolt Gasket & Installation Instructions .....	1
	<b>35-P-15-2</b>	Gasket, Housing (.020") .....	A.R.
		<b>P.T.O. MOUNTING STUD KIT</b>	
N.S.	<b>328170-8X</b>	Mounting Stud Kit .....	1

N.S. — Not Shown

A.R.—As Required

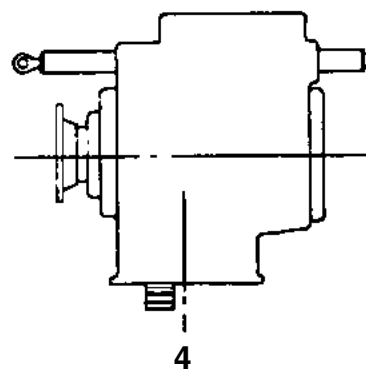
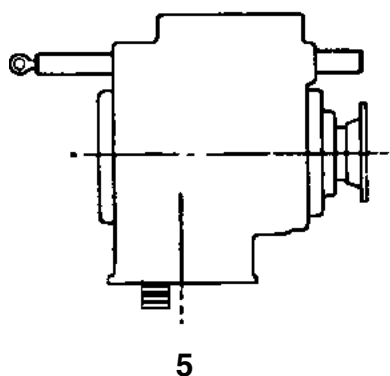


Item	Part Number	Description	Quantity
65	<b>329092X</b>	Pressure Lube Hose Ass'y 15" (Ship Loose) .....	1
66	<b>329109X</b>	Pressure Lube Hose Ass'y 12" (Ship Loose) .....	1
67	<b>379231</b>	Oil Plug (.125" -27 NPTF) .....	2
69	<b>500750-1</b>	Street Tree (.125" -27 NPTF) (Ship Loose) .....	1

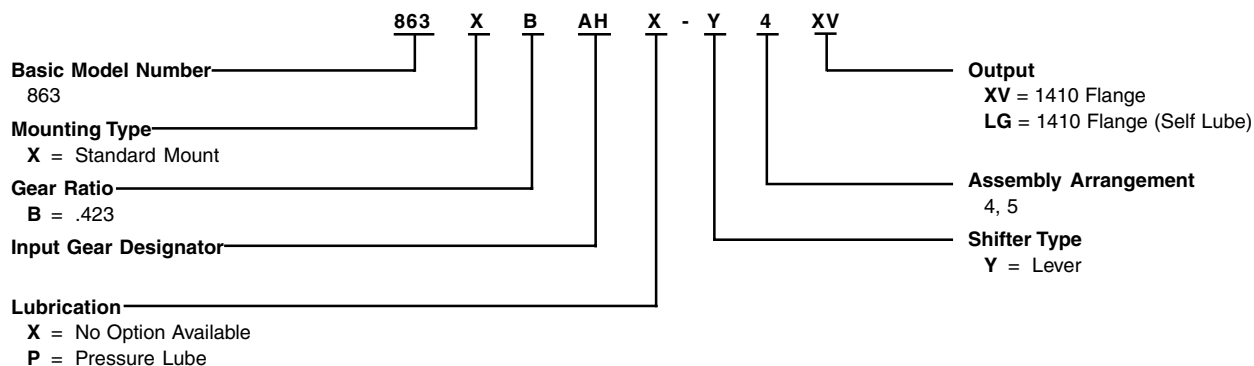
P.T.O. Model	Input Gear	Large Cluster Number of Teeth	Small Cluster Number of Teeth	Pitch & Pressure Angle
863*AB	5-P-508	27	18	Spur
863*BAH	5-P-285	32	18	Spur
863*BAK	5-P-223	32	18	Spur
863*BAR	5-P-236	29	18	Left Hand
863*BBG	5-P-422	33	18	Left Hand
863*CR	5-P-498	26	18	Left Hand
863*DA	5-P-636	35	18	Spur

**NOTE:** When reinstalling the Power Take-Off on the transmission, the backlash between the Power Take-Off gear and the transmission gear should be approximately .006-.012". If too few gaskets are used, the unit will whine; if too many, the unit will clatter.

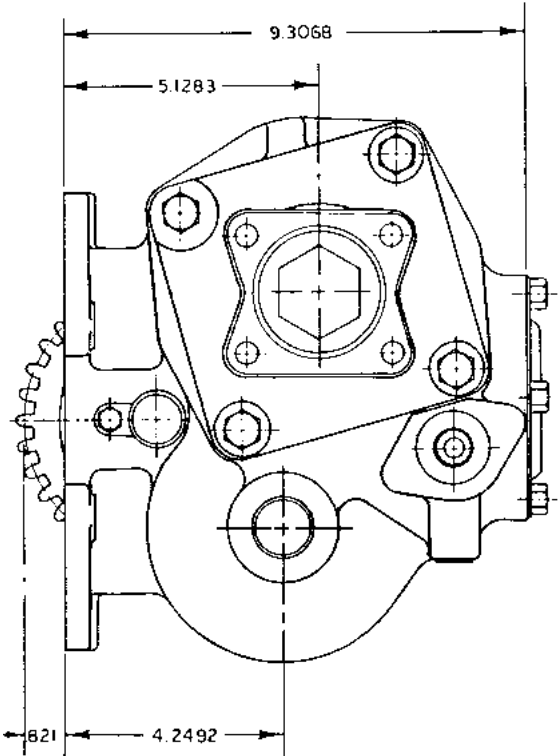
## Assembly Arrangements



## Model Number Designation







### Specifications

Torque Rating	500 Lbs. Ft.*
Horsepower Rating 500 RPM of Output Shaft 1000 RPM of Output Shaft	47 * 94 *
Approximate Weight	96 Lbs.

\* Based on Intermittent Service

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**2. Payment:** Payment shall be made by Buyer net 30 days from the date of delivery of the items purchased hereunder. Amounts not timely paid shall bear interest at the maximum rate permitted by law for each month or portion thereof that the Buyer is late in making payment. Any claims by Buyer for omissions or shortages in a shipment shall be waived unless Seller receives notice thereof within 30 days after Buyer's receipt of the shipment.

**3. Delivery:** Unless otherwise provided on the face hereof, delivery shall be made F.O.B. Seller's plant. Regardless of the method of delivery, however, risk of loss shall pass to Buyer upon Seller's delivery to a carrier. Any delivery dates shown are approximate only and Seller shall have no liability for any delays in delivery.

**4. Warranty:** Seller warrants that the items sold hereunder shall be free from defects in material or workmanship for a period of:

(A) All Power Take-Off units one (1) year from date of installation.

(B) Except 267, 277, 278, 242, 244, 245, 250, 251 and 859 series two (2) years from date of installation. **THIS WARRANTY COMPRISES THE SOLE AND ENTIRE WARRANTY PERTAINING TO ITEMS PROVIDED HEREUNDER. SELLER MAKES NO OTHER WARRANTY, GUARANTEE, OR REPRESENTATION OF ANY KIND WHATSOEVER. ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO, MERCHANTABILITY AND FITNESS FOR PURPOSE, WHETHER EXPRESS, IMPLIED, OR ARISING BY OPERATION OF LAW, TRADE USAGE, OR COURSE OF DEALING ARE HEREBY DISCLAIMED. NOTWITHSTANDING THE FOREGOING, THERE ARE NO WARRANTIES WHATSOEVER ON ITEMS BUILT OR ACQUIRED WHOLLY OR PARTIALLY, TO BUYER'S DESIGNS OR SPECIFICATIONS.**

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**7. Special Tooling:** A tooling charge may be imposed for any special tooling, including without limitation, dies, fixtures, molds and patterns, acquired to manufacture items sold pursuant to this contract. Such special tooling shall be and remain Seller's property notwithstanding payment of any charges by Buyer. In no event will Buyer acquire any interest in apparatus belonging to Seller which is utilized in the manufacture of the items sold hereunder, even if such apparatus has been specially converted or adapted for such manufacture and notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller shall

have the right to alter, discard or otherwise dispose of any special tooling or other property in its sole discretion at any time.

**8. Buyer's Property:** Any designs, tools, patterns, materials, drawings, confidential information or equipment furnished by Buyer or any other items which become Buyer's property, may be considered obsolete and may be destroyed by Seller after two (2) consecutive years have elapsed without Buyer placing an order for the items which are manufactured using such property. Seller shall not be responsible for any loss or damage to such property while it is in Seller's possession or control.

**9. Taxes:** Unless otherwise indicated on the face hereof, all prices and charges are exclusive of excise, sales, use, property, occupational or like taxes which may be imposed by any taxing authority upon the manufacture, sale or delivery of the items sold hereunder. If any such taxes must be paid by Seller or if Seller is liable for the collection of such tax, the amount thereof shall be in addition to the amounts for the items sold. Buyer agrees to pay all such taxes or to reimburse Seller therefore upon receipt of its invoice. If Buyer claims exemption from any sales, use or other tax imposed by any taxing authority, Buyer shall save Seller harmless from and against any such tax, together with any interest or penalties thereon which may be assessed if the items are held to be taxable.

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