

No. 35K

Pipe and Drain Cleaning
Equipment

Parts Catalog

July 2001

RIDGID

Kollmann®

Ridge Tool Company, 400 Clark St., Elyria, Ohio 44035-6001 U.S.A.

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RIDGID/Kollmann Pipe and Drain Cleaning Equipment

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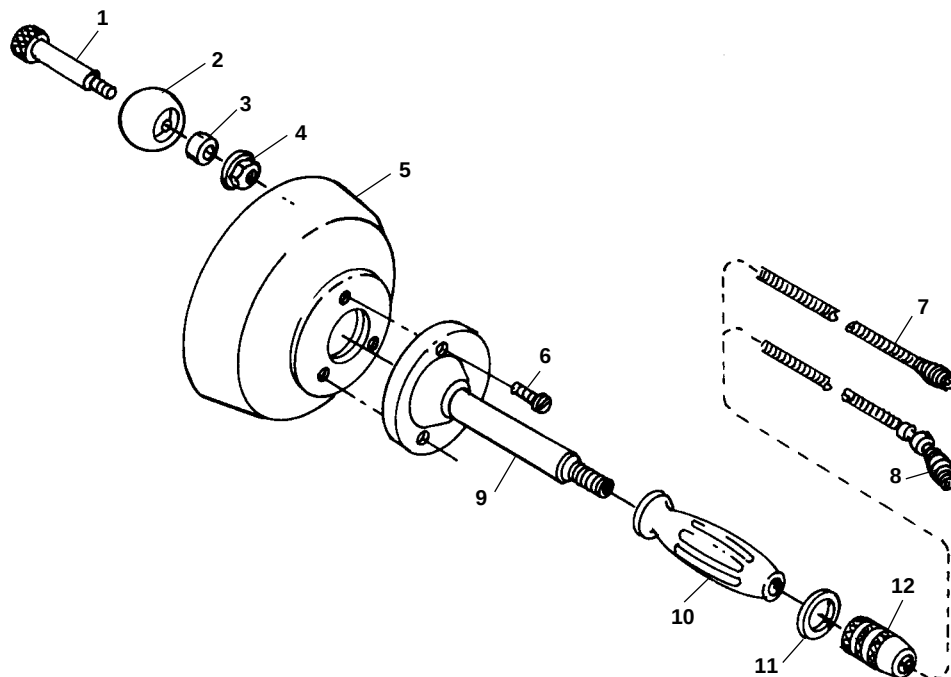
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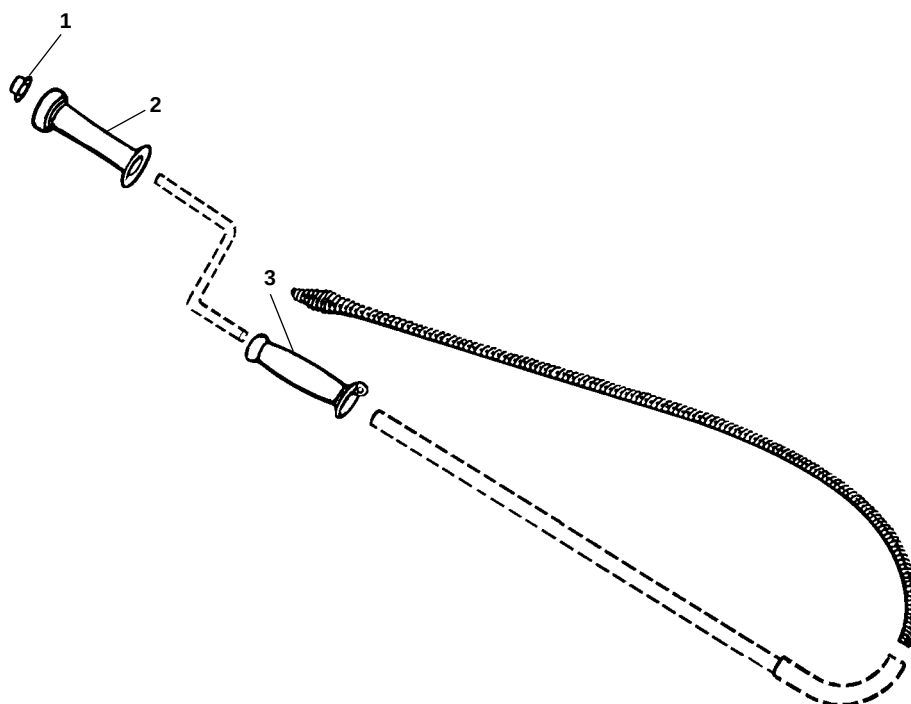
K-25 Hand Spinner



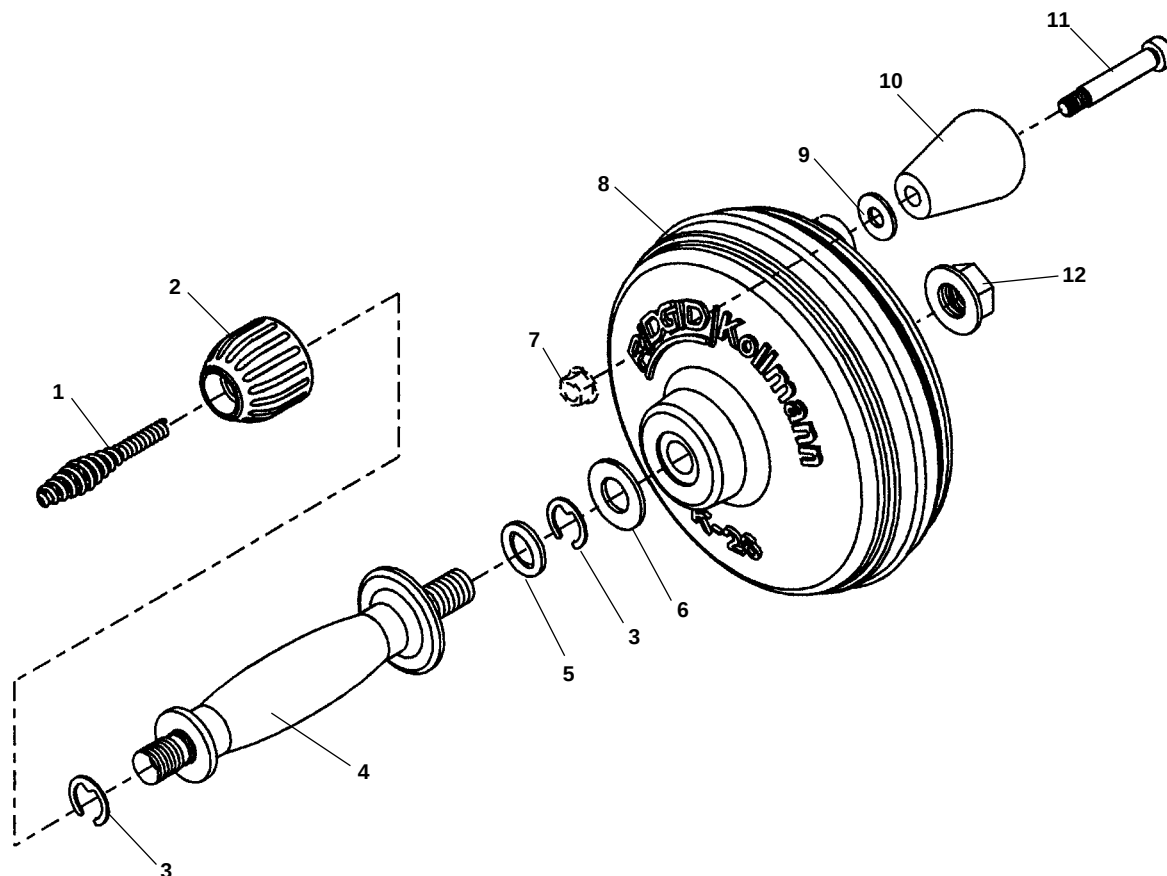
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description
—	58890	K-25 - BP w/C-1-IC
—	58895	K-25 - DH w/C-2-IC
1	50632	Shoulder Screw
2	61745	Knob
3	50642	Spacer
4	27517	Lock Nut
5	50637	Cable Container Assembly (Includes Ref. 1,2,3,4,6)
6	61540	Screw
7	56782	C-1 - IC
8	56787	C-2 - IC
9	60735	Guide Tube & Flange
10	76765	Handle Grip
11	60725	Retaining Ring
12	60720	Chuck

K-4 Closet Auger



Ref. No.	Catalog No.	Description
—	59195	K-4 Closet Auger
1	23202	Cap Washer
2	23362	Crank Handle
3	23367	Tube Handle

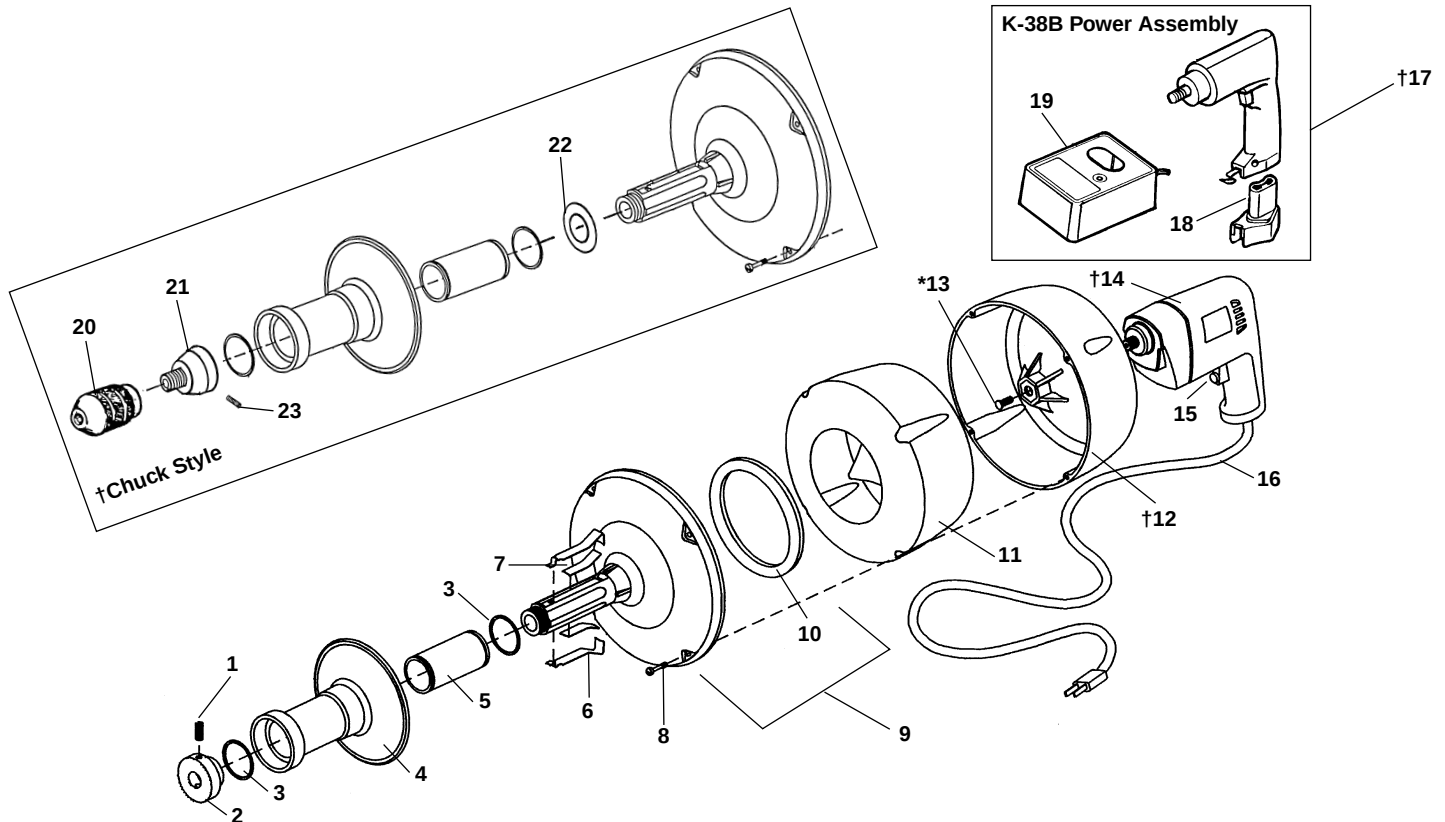


**NOTE: Order parts by Catalog Number only.
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Ref. No.	Catalog No.	Description
—	59812	K-26 Hand Spinner
1	62225	C-1
2	60777	Chuck Assembly
3	42580	Retaining Ring (2)
4	60782	Guide Tube Handle Assembly
5	84460	Thrust Washer
6	80205	Thrust Washer
7	27517	Lock Nut
8	60787	Cable Container
9	60060	Washer
10	60792	Knob
11	60797	$\frac{3}{8}$ " x $1\frac{3}{4}$ " Shoulder Bolt
12	61447	$\frac{5}{16}$ " - 18 Hex Jam Nut

Replacement Parts for One Piece Flat Steel Sewer Tapes

Catalog No.	Model No.	Width	Thickness	Length	89745 Ball	89750 Ball	89755 Ball	89760 Ball	89765 Handle	89770 Spear	89775 Spear
62510	E-2720	1/4"	1/16"	25'	•						
62515	E-2721	1/4"	1/16"	50'	•						
62520	E-2722	1/4"	1/16"	75'	•						
62525	E-2723	1/4"	1/16"	100'	•						
62530	E-2724	1/2"	1/16"	25'		•			•	•	
62535	E-2725	1/2"	1/16"	50'		•			•	•	
62540	E-2726	1/2"	1/16"	75'		•			•	•	
62545	E-2727	1/2"	1/16"	100'		•			•	•	
62550	E-2728	3/4"	1/16"	25'			•		•	•	
62555	E-2729	3/4"	1/16"	50'			•		•	•	
62560	E-2730	3/4"	1/16"	75'			•		•	•	
62565	E-2731	3/4"	1/16"	100'			•		•	•	
62570	E-2732	5/8"	3/32"	25'			•		•	•	
62575	E-2733	5/8"	3/32"	50'			•		•	•	
62580	E-2734	5/8"	3/32"	75'			•		•	•	
62585	E-2735	5/8"	3/32"	100'			•		•	•	
62590	E-2736	3/4"	1/8"	25'			•		•	•	
62595	E-2737	3/4"	1/8"	50'			•		•	•	
62600	E-2738	3/4"	1/8"	75'			•		•	•	
62605	E-2739	3/4"	1/8"	100'			•		•	•	
62610	E-2740	1"	1/8"	25'				•	•		•
62615	E-2741	1"	1/8"	50'				•	•		•
62620	E-2742	1"	1/8"	75'				•	•		•
62625	E-2743	1"	1/8"	100'				•	•		•
62630	E-2744	1 1/4"	1/8"	25'				•	•		•
62635	E-2745	1 1/4"	1/8"	50'				•	•		•
62640	E-2746	1 1/4"	1/8"	75'				•	•		•
62645	E-2747	1 1/4"	1/8"	100'				•	•		•



**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	41502	Set Screw $\frac{5}{16}$ " - 18 x $\frac{3}{4}$ "	16	24747	Cord (115V)
2	41507	Nose Piece	†17	39707	Power Unit, Charger, Battery (115V)
3	41512	Spiral Ring (2)		44902	Power Unit, Charger, Battery (240V-Export)
4	41517	Hand Grip		41197	Power Unit, Charger, Battery (220V-Europe)
5	41522	Sleeve	18	39717	Battery Pack - K-38-B
6	41532	Clamp Spring (2)		41207	Battery 220/240V
7	41537	Booster Spring (2)	19	39712	Charger - K-38-B
8	41542	Captive Screw (4)		41202	Charger 220V
9	41547	Drum Front w/Gasket		44952	Auto Charger 12 VDC
10	47252	Gasket	20	55247	Cable Chuck
11	41552	Drum Liner	21	55257	Chuck Adapter
†12	41557	Drum Back	22	55252	Spacer
*13	76775	Screw (Left Hand Thread)	23	60025	Set Screw
†14	61980	Power Unit (115V)	—	41562	Decal Package K-38
	84430	Power Unit (230V-Export)	—	41567	Decal Package K-38-B
	44462	Power Unit (220V-Europe)	—	55242	Chuck Assy. Kit Includes Ref. No. 20, 21, 22
15	61100	Switch (115V)			
	84685	Switch (230V-Export)			
	44467	Switch (220V-Europe)			

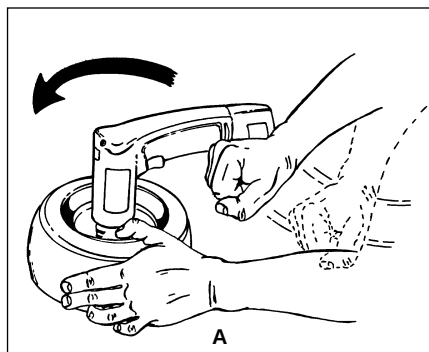
†See Service Notes

†Service Notes

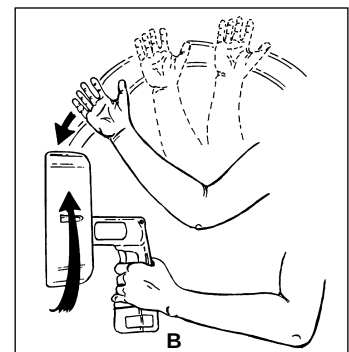
Ref. No. 11 & 13: To remove drum back from power unit, first remove left hand screw Ref. 12. Strike unit as shown in figures below to unscrew drum.

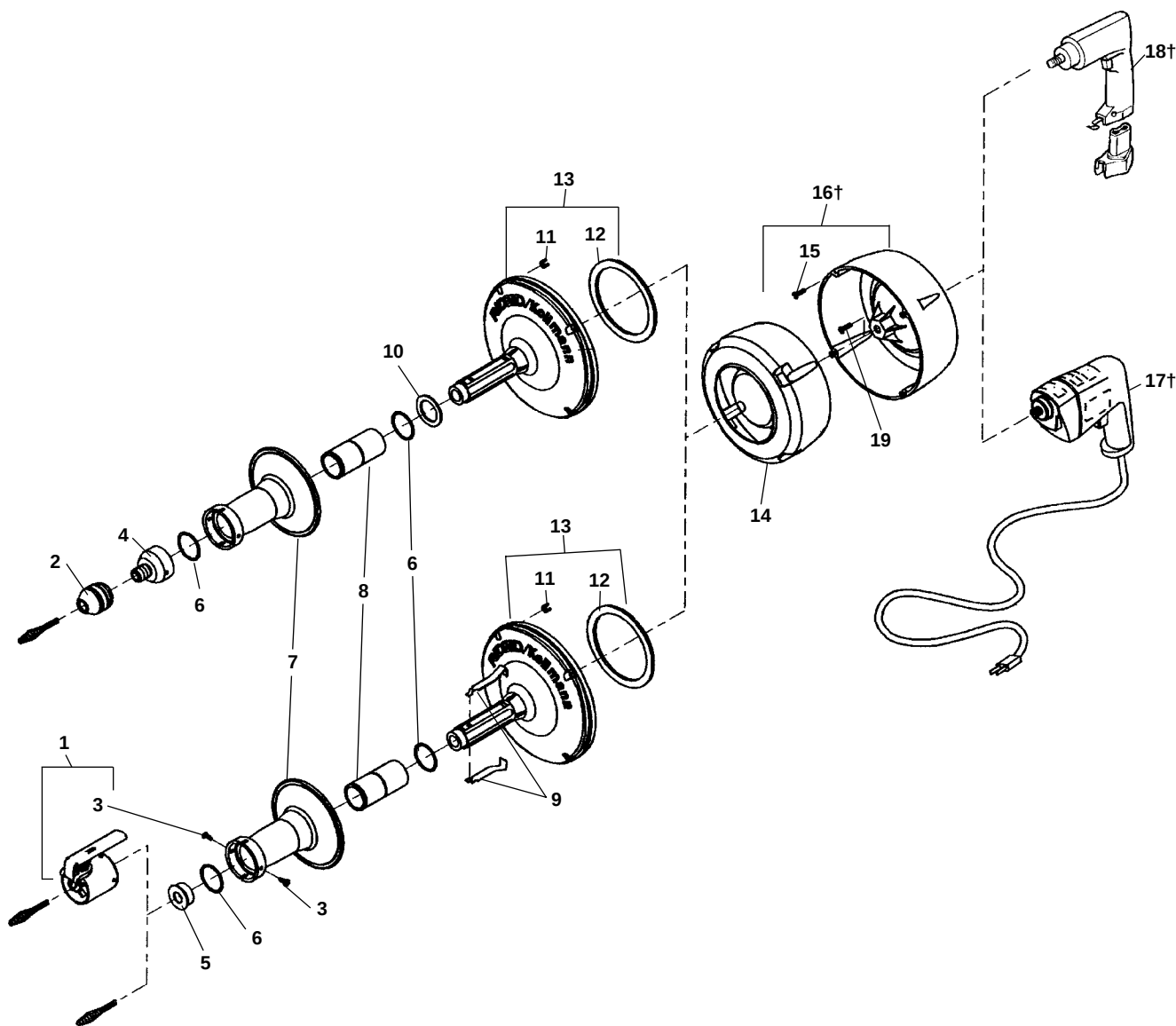
Ref. No. 16: See Model 3350 for component parts

†Chuck conversion: When converting to cable chuck Ref. 19, remove springs Ref. 6 & 7.



OR



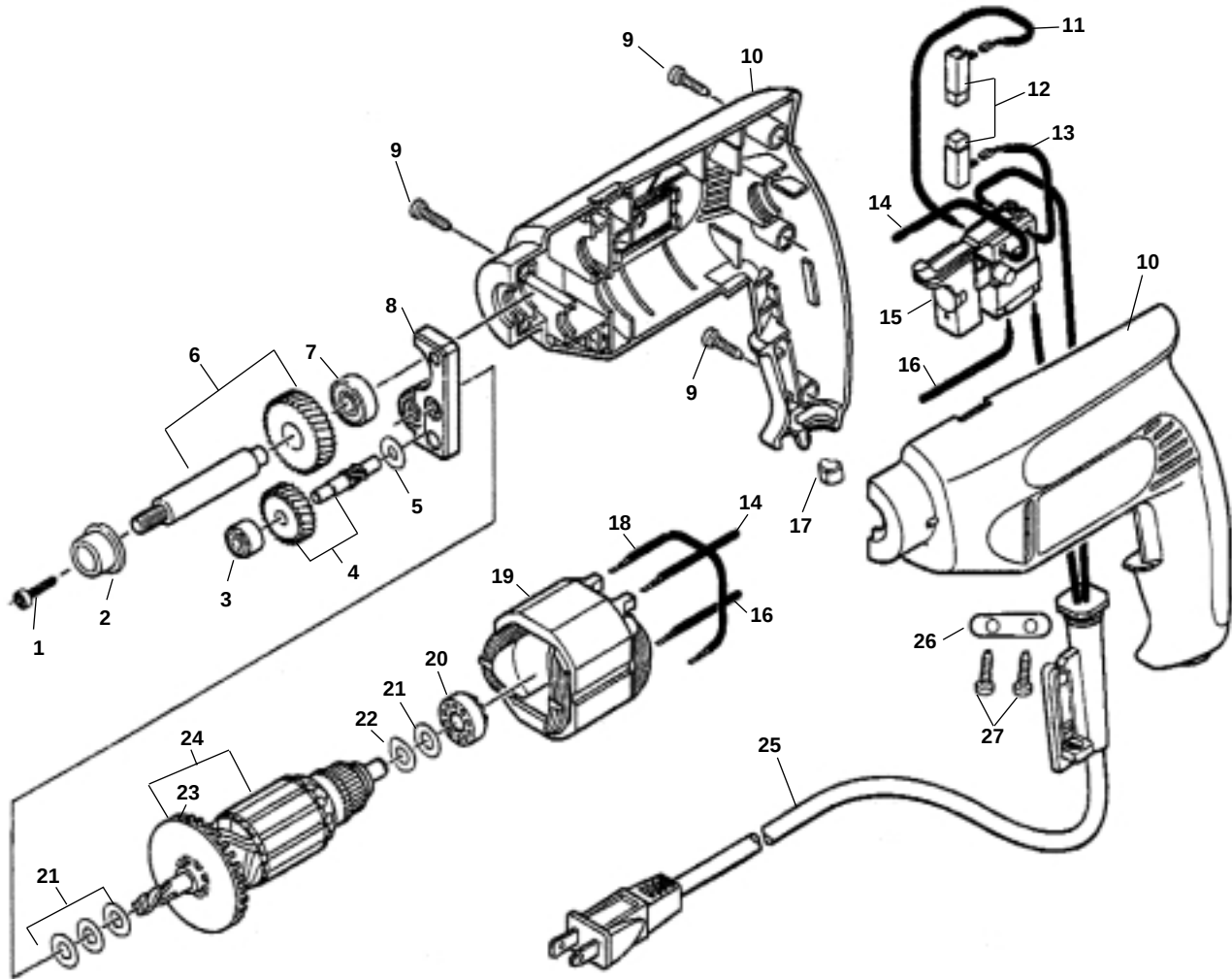


**NOTE: Order parts by Catalog Number only.
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Ref. No.	Catalog No.	Description
1	67962	A-39 Autofeed
2	55247	Cable Chuck
3	68937	Pan Head Screw #10 - 24 (4)
4	55257	Chuck Adapter
5	68957	Nose Piece
6	41512	Spiral Ring (2)
7	41517	Hand Grip
8	68922	Sleeve
9	68947	Clamp Springs (2)
10	55252	Spacer
11	68942	Clips (4)

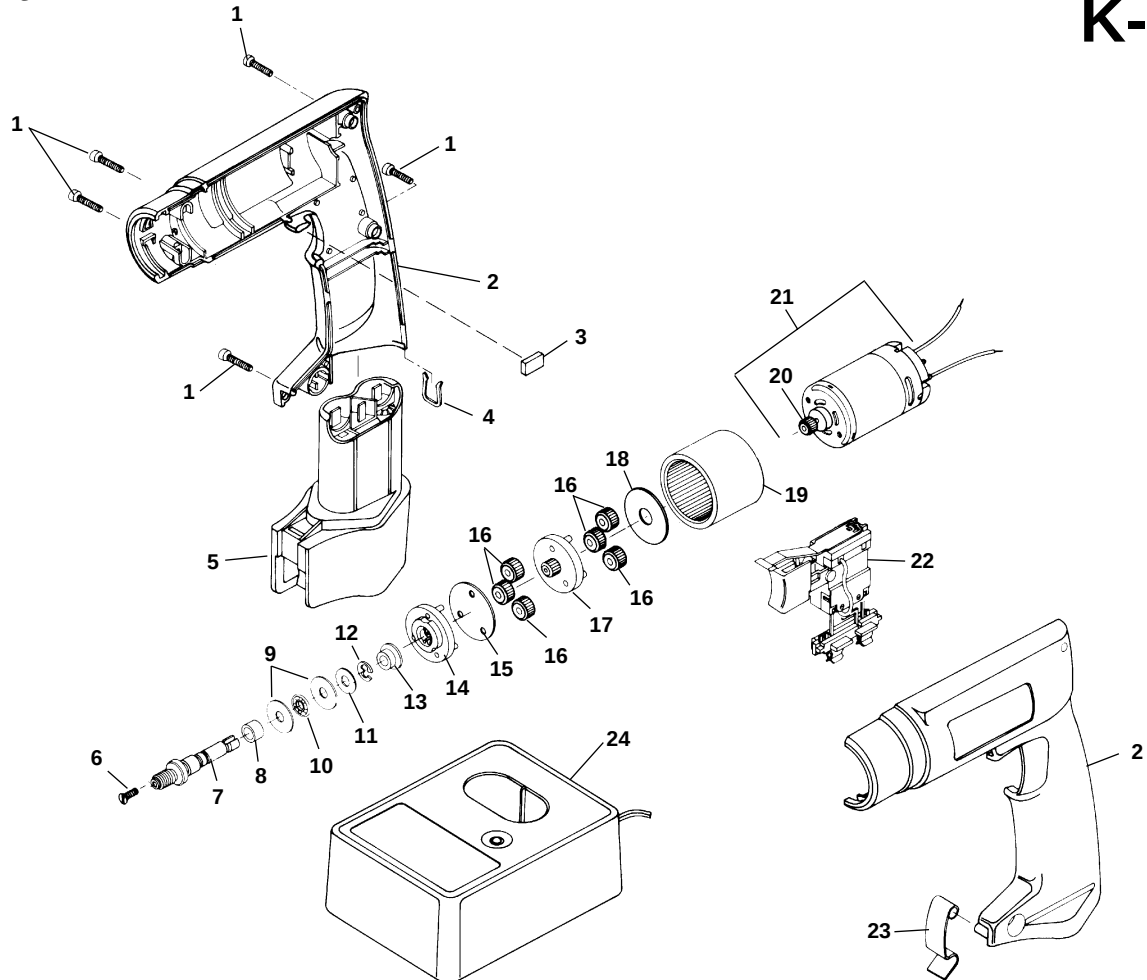
Ref. No.	Catalog No.	Description
12	47252	Gasket
13	68927	Drum Front
14	68917	Drum Liner
15	69542	Screw #10 - 32 x 1" (4)
16†	68932	Drum Back
17†	73992	Power Unit (120V 60Hz)
	68952	Power Unit (220/240V 50Hz)
18†	39707	Power Unit, Charger, Battery (120V 60Hz)
	41197	Power Unit, Charger, Battery (220/240V 50Hz)
19	42402	Screw (*LH Thread)

† See Service Notes

K-39 Power Unit, 115V


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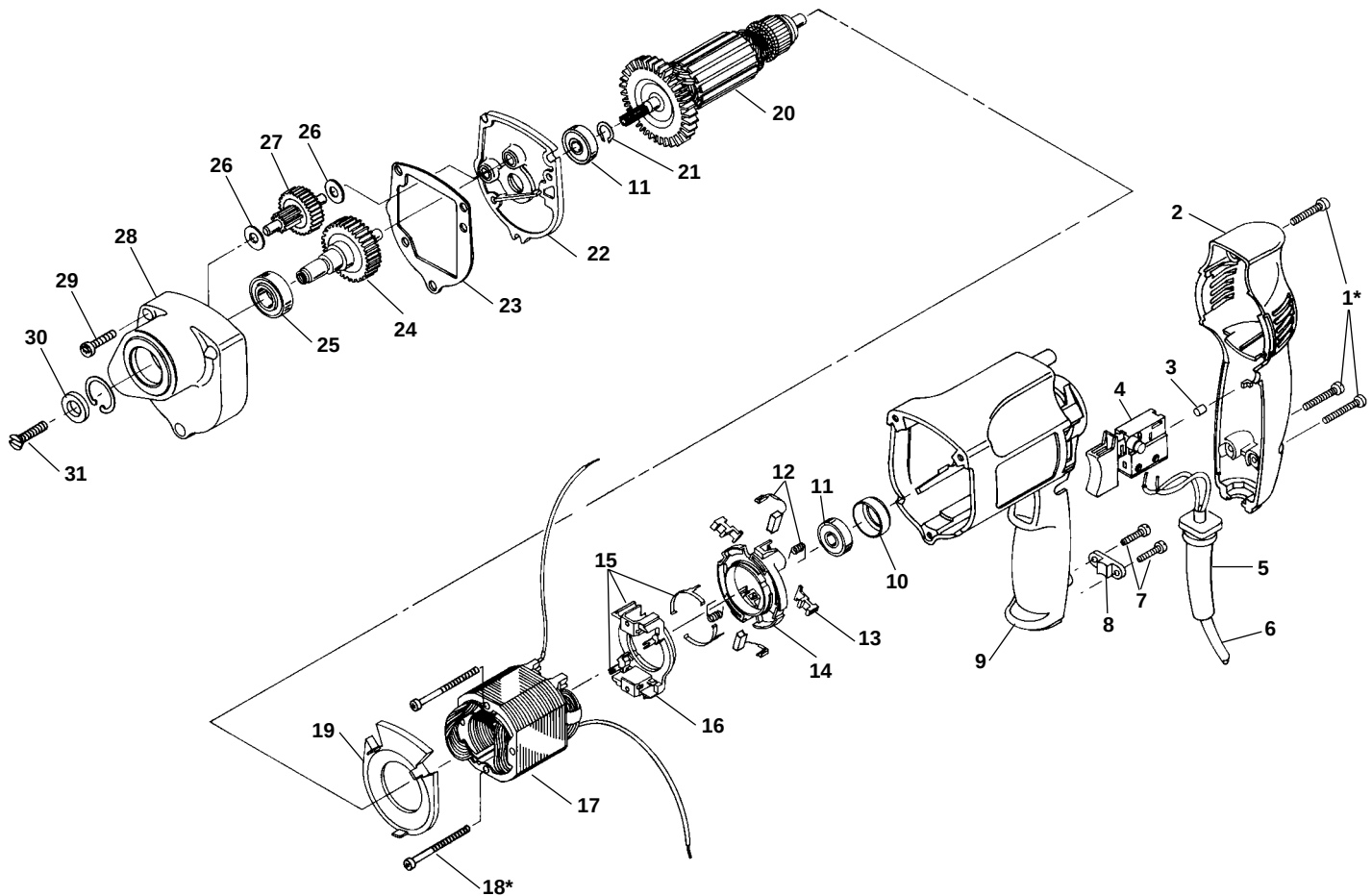
Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
—	73992	Power Unit - 120V 60Hz	14	74312	Brown Lead Wire
1	42402	Screw L.H.	15	74332	Switch VSR
2	83042	Bushing	16	74337	Blue Lead Wire
3	74252	Needle Bearing	17	74342	Housing Plug
4	74257	Intermediate Gear	18	74352	Black Jumper Wire
5	74262	Shim 0.3mm	19	74357	Field 120V
6	74242	Spindle w/Gear Assembly	20	74362	Bushing
7	74247	Ball Bearing	21	74372	Washer (4)
8	74267	Bearing Block Assembly	22	74377	Spring Washer
9	74302	Screw (7)	23	74382	Fan
10	74307	Housing Assembly L. & R.	24	74387	Armature w/Fan 120V
11	74317	Black Brush Lead	25	74347	Cord 120V
12	74322	Brush and Holder Set	26	74662	Cord Clamp
13	74327	White Brush Lead	27	74667	Screw T-15 (2)

Power Unit


**NOTE: Order parts by Catalog Number only.
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Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
—	39707	Power Unit, Charger, Battery (120V 60Hz)	13	44487	Flange Bearing
—	41197	Power Unit, Charger, Battery (220/240V 50Hz)	14	42507	2nd. Stage Carrier Assembly
1	42467	Screw Torx T-15 (5)	15	42512	Spacer
2	44492	Housing Set	16	42517	Planet Gear (6)
3	42602	Shield	17	42522	1st. Stage Carrier Assembly
4	42462	Retaining Clip	18	42527	Flat Washer
5	39717	Battery Pack 7.2V	19	42532	Ring Gear
6	42402	Screw (*LH Thread)	20	42592	Sun Gear
7	44472	Spindle Shaft	21	42542	Motor Assembly
8	44477	Sleeve Bearing	22	61842	Switch Assembly
9	42432	Washer (2)	23	42562	Latch
10	42437	Thrust Bearing	24	73907	Charger (120V 60Hz)
11	42427	Loading Spring Washer		73902	Charger (220V 50Hz)
12	44482	Retaining Ring		73912	Charger (240V 50Hz Australia)

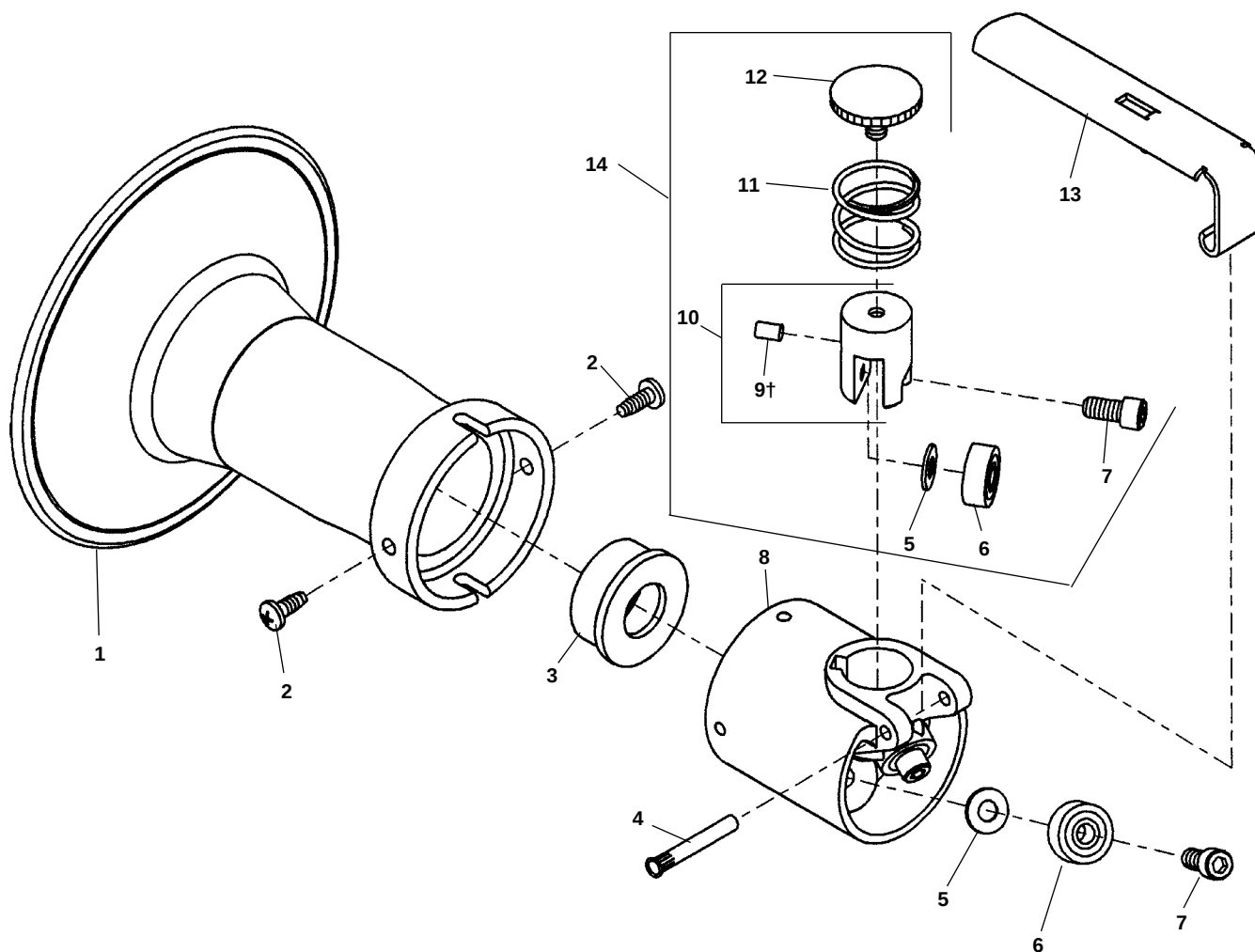
220V European Power Unit



**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
—	68952	Power Unit - 220/240V 50Hz	16	42812	Stationary Contact Carrier
*1	42727	Screw (*Torx T20)	17	72597	Field
2	42732	Handle Cover	*18	42832	Screw
3	42737	Rubber Plug	19	42837	Baffle
4	72607	Switch	20	72602	Armature
5	42752	Strain Relief	21	42442	Retaining Ring
6	72617	Cord	22	42587	Bearing Plate Assembly
*7	42762	Screw (*Torx T15)	23	42862	Gasket
8	42767	Cord Clamp	24	42872	Output Shaft Assembly
9	42772	Motor Housing	25	42887	Ball Bearing
10	42777	Sleeve	26	42892	Washer
11	42782	Ball Bearing	27	42897	Int. Gear Assembly
12	72612	Brush & Spring Set	28	42907	Gear Housing Assembly
13	42797	Reverse Lever	29	42912	Screw (3)
14	42802	Rev. Switch & Brush Holder	30	42937	Spacer
15	42807	Contact Set	*31	42957	Screw (*L.H. Thread)

Autofeed



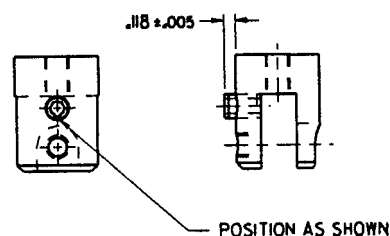
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
—	67962	A-39 Autofeed	7	39830	Socket HD Cap Screw (3)
—	67952	A-38PF Kit for K-38 Drain Cleaner	8	67967	Autofeed Body
1	41517	Hand Grip (A-38PF Only)	9†	54007	Roll Pin 1/4" x 3/16"
2	68937	Pan Head Screw 10-32 x 1" (4)	10	68017	Top Roller Holder
3	68957	Nose Piece (A-38PF Only)	11	68012	Return Spring
4	32107	Pivot Pin	12	68007	Top Adjustment Screw
5	67992	Flat Thrust Washer (3)	13	68002	Feed Actuator Lever
6	67997	Roller Bearing (3)	14	76597	Top Roller Holder Assembly

† – See Service Notes

Service Notes:

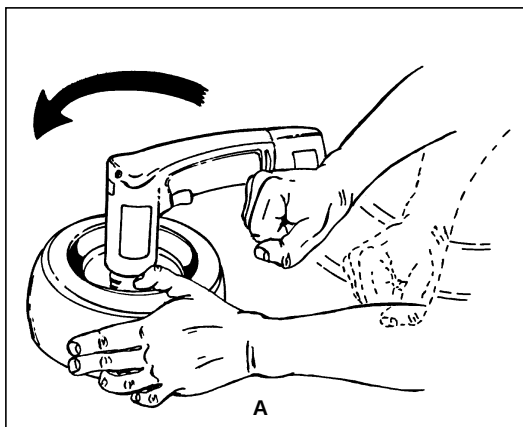
- Apply Texclad #2 grease to the following areas:
 - Top surface and threads of item #7 (Top Adjustment Screw)
 - Outside Dia. of item #10 (Roller Holder)
- Locate slot in Roll Pin item #9 at six-o'clock position and press to dimension shown



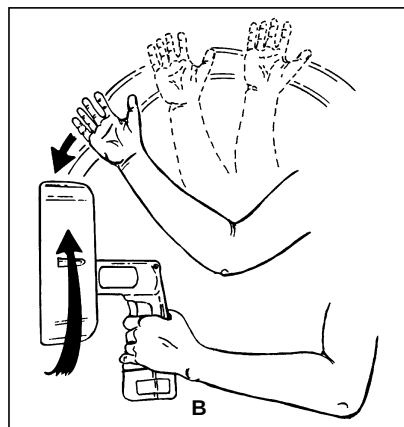
Service Notes

Service Notes

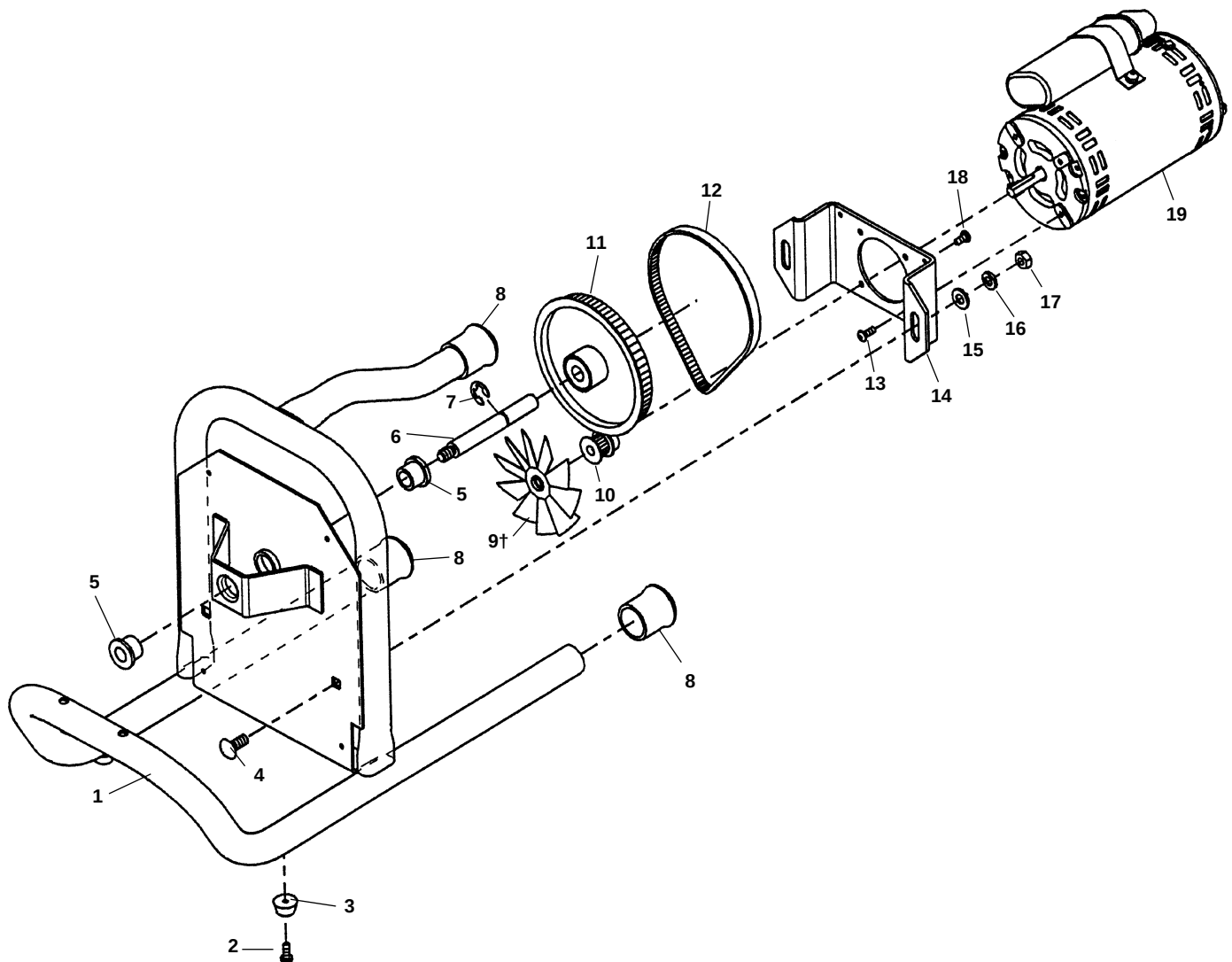
Remove left hand screw (Ref. 15) before removing power unit from drum back. Either method can be used.



OR



Motor/Frame Assembly

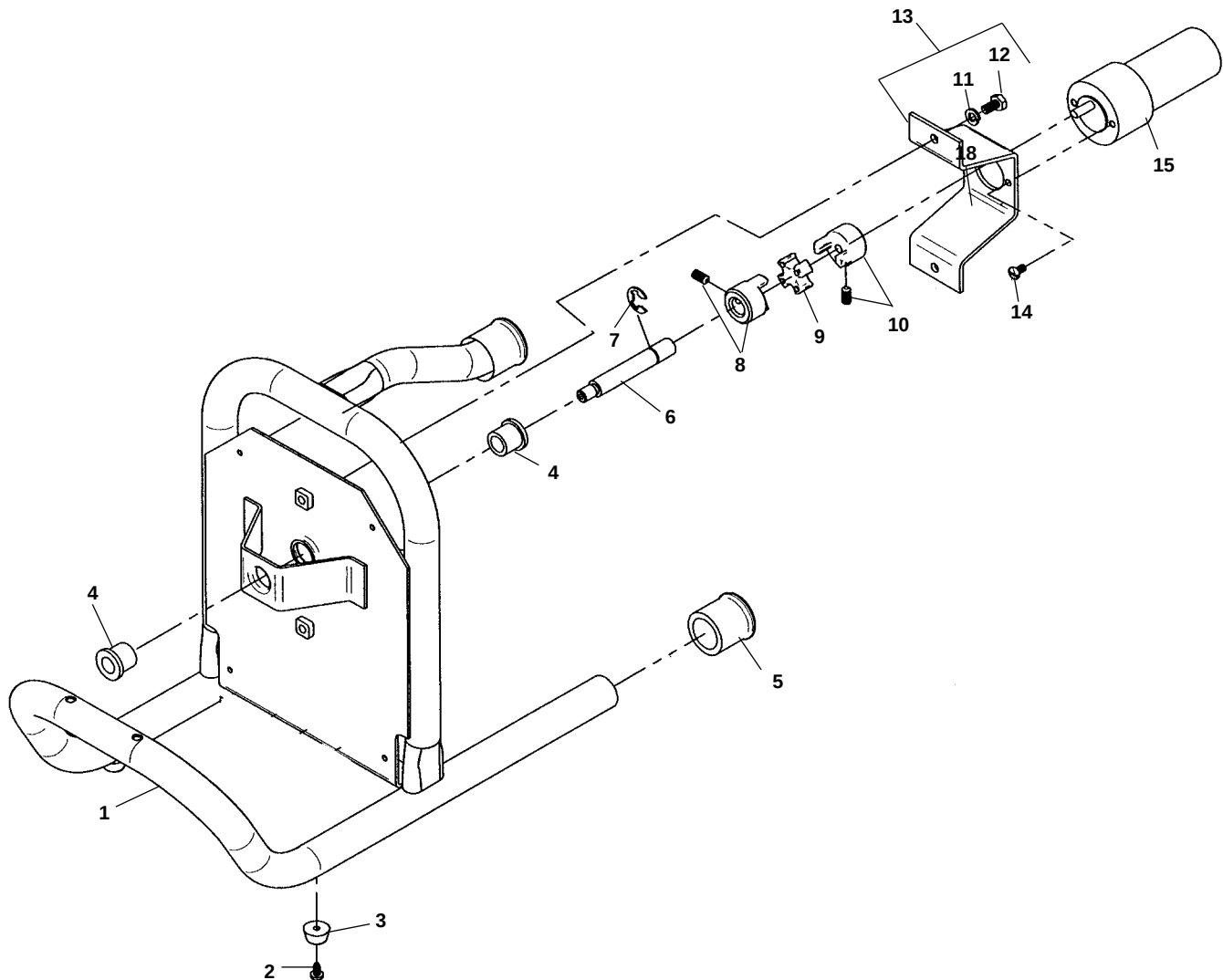


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Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	71887	Frame Assembly	12	71957	Drive Belt
2	45420	Screw #10 - 24 (8)		83917	Drive Belt (230V 50Hz Only)
3	71972	Rubber Foot (2)	13	35217	Screw, Button Head #10 - 32 (4)
4	96260	Carriage Bolt $\frac{5}{16}$ " - 18 x $\frac{3}{4}$ "	14	71977	Motor Mounting Plate
5	71967	Flange Bearing (2)	15	60065	Flat Washer $\frac{5}{16}$ " (2)
6	71942	Drum Shaft	16	60080	Lock Washer $\frac{5}{16}$ " (2)
7	59810	Retaining Ring	17	60230	Hex Nut $\frac{5}{16}$ " - 18 (2)
8	37962	Rubber Tip (3)	18	45420	Screw #10 - 24 (8)
9†	73997	Fan	19	71982	Motor 115V 60Hz
10	71947	Motor Pulley		72017	Motor 230V 50Hz
11	71952	Main Pulley		72022	Motor 100V 50/60Hz
	83912	Main Pulley (230V 50Hz Only)			

† Refer to Service Notes for Fan position.

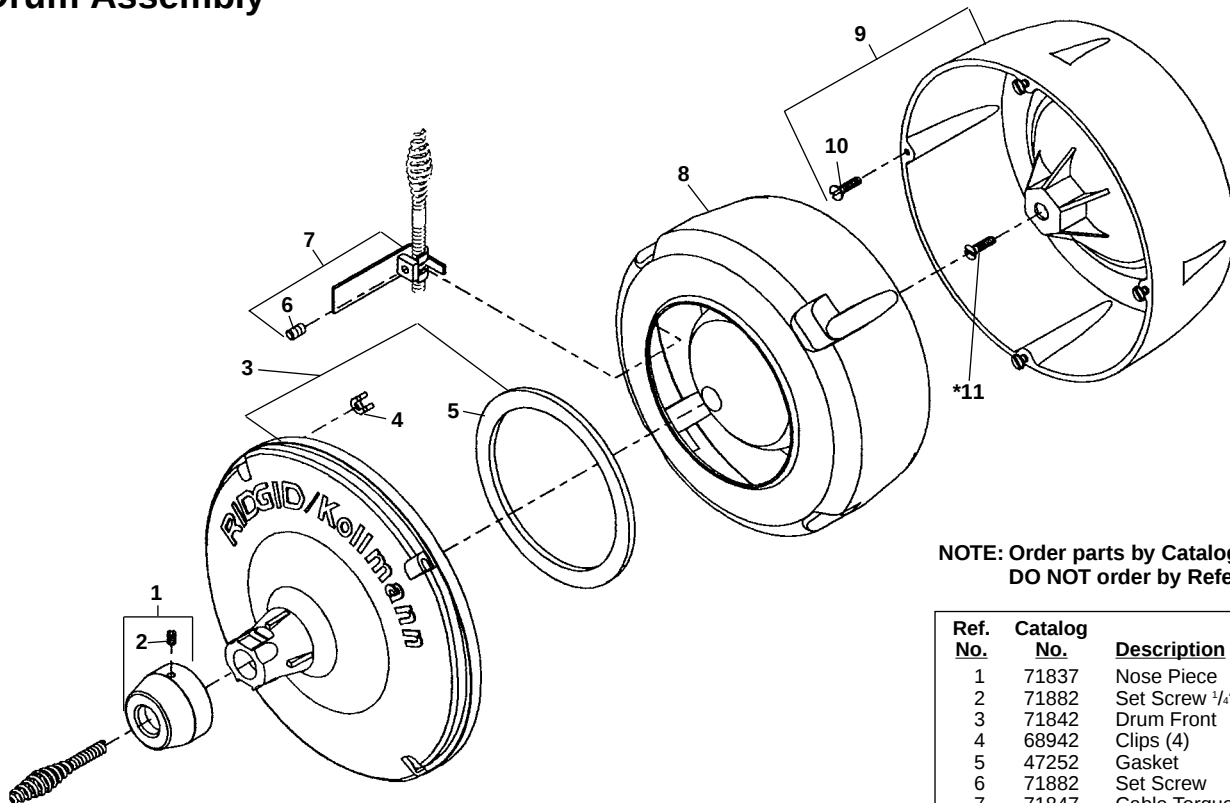
Motor/Frame Assembly



**NOTE: Order parts by Catalog Number only.
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Ref. No.	Catalog No.	Description
1	83357	K-40B Tubular Frame Assembly
2	45420	Screw #10 - 24 (8)
3	71972	Rubber Foot (2)
4	71967	Flange Bearing (2)
5	37962	Rubber Tip (3)
6	83367	Drum Shaft
7	59810	Retaining Ring
8	83377	Coupling End 1/2"
9	83382	Coupling Spider
10	83372	Coupling End 1/4"
11	60075	Washer (2)
12	60265	Hex Screw 1/4" - 20 x 1/2"
13	83402	Motor Mounting Plate (Inc. Ref. No. 11, 12)
14	35217	Screw, Button Head #10 - 32 (2)
15	83397	Motor 14.4V

Drum Assembly

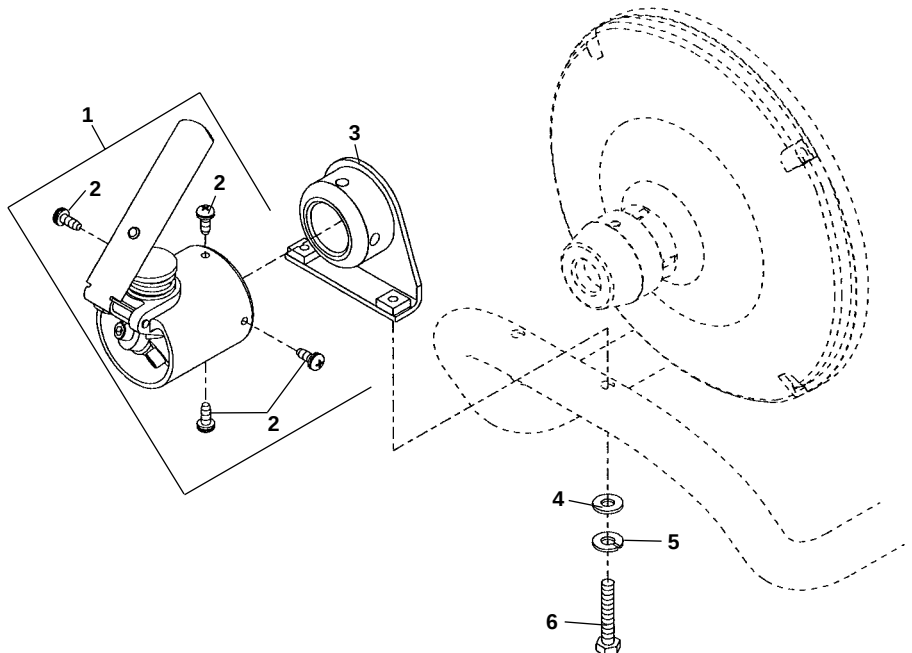


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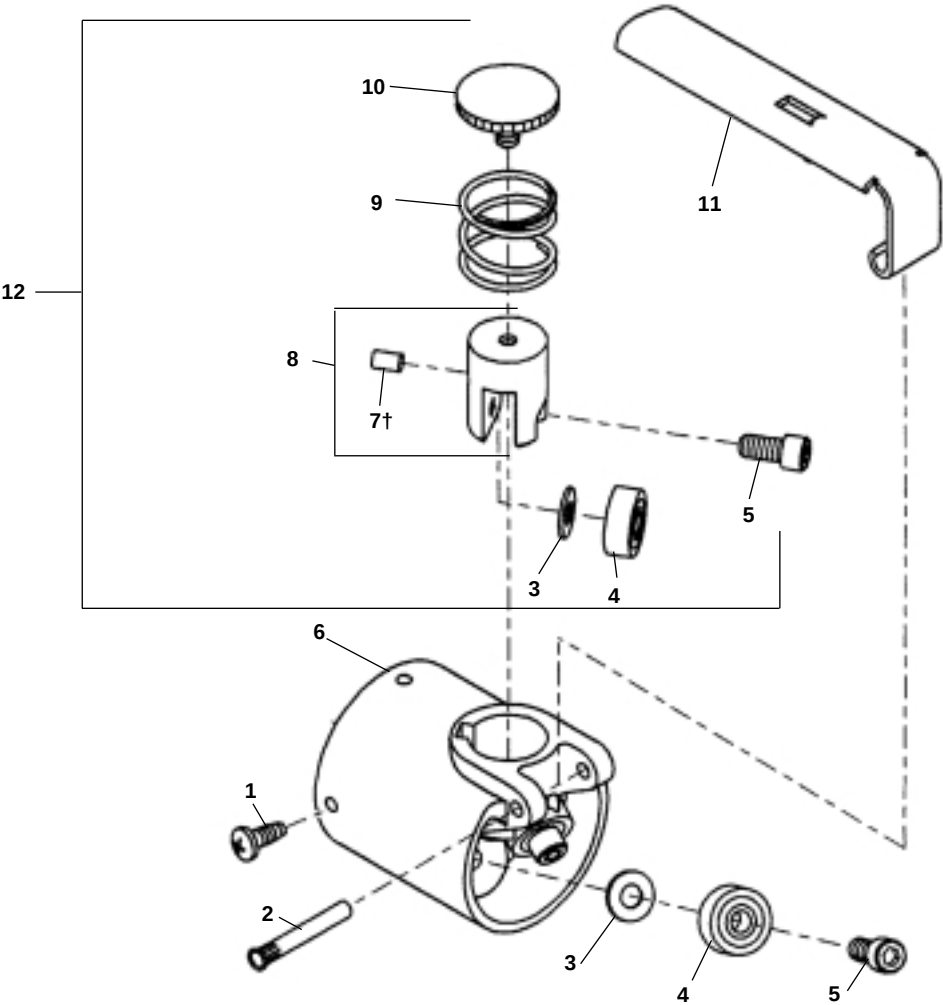
Ref. No.	Catalog No.	Description
1	71837	Nose Piece
2	71882	Set Screw $\frac{1}{4}$ " - 20 x $\frac{1}{2}$ "
3	71842	Drum Front
4	68942	Clips (4)
5	47252	Gasket
6	71882	Set Screw
7	71847	Cable Torque Arm
8	68917	Drum Liner
9	68932	Drum Back
10	69542	Screw #10 - 32 x 1" (4)
*11	76775	Screw L.H. Thread

Autofeed

Ref. No.	Catalog No.	Description
—	71767	A-40PF Autofeed Assembly
1	67962	A-39PF Autofeed
2	68937	Pan Head Screw #10 - 24 (4)
3	72012	Bracket
4	50192	$\frac{1}{4}$ " Flat Washer (2)
5	60075	$\frac{1}{4}$ " Lock Washer (2)
6	73132	Hex Bolt $\frac{1}{4}$ " - 20 (2)



Autofeed Assembly



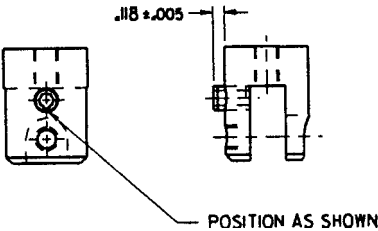
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Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
—	67962	A-39PF Autofeed	7†	54007	Roll Pin 1/4" x 3/8"
1	68937	Pan Head Screw #10-24 (4)	8	68017	Top Roller Holder
2	32107	Pivot Pin	9	68012	Return Spring
3	67992	Flat Thrust Washer (3)	10	68007	Top Adjustment Screw
4	67997	Roller Bearing (3)	11	68002	Feed Actuator Lever
5	39830	Socket Head Cap Screw (3)	12	76597	Top Roller Holder Assembly
6	67967	Autofeed Body			

† – See Service Notes

Service Notes:

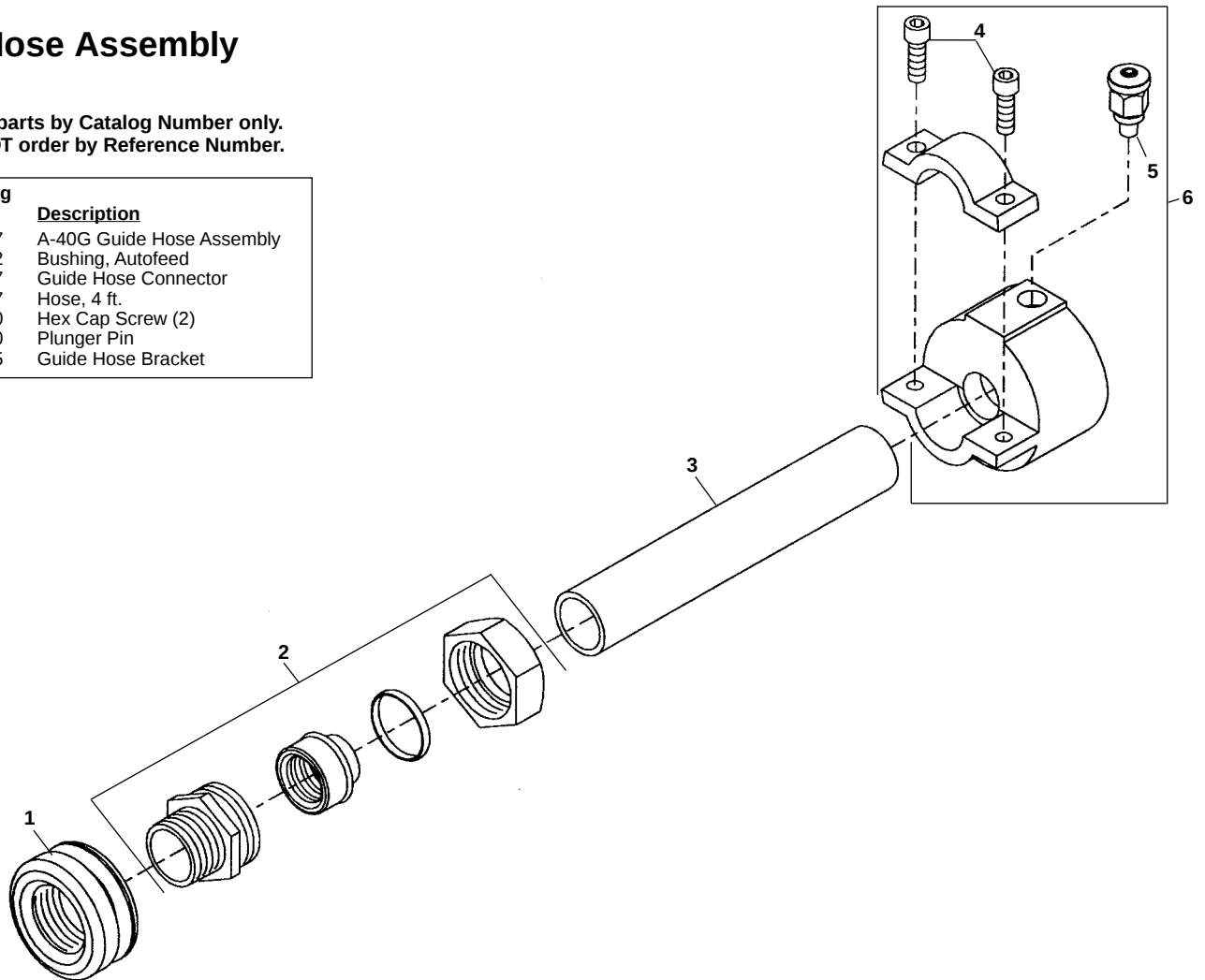
- 1) Apply Texclad #2 grease to the following areas:
 - A) Top surface and threads of item #15 (Top Adjustment Screw)
 - B) Outside Dia. of item #13 (Top Roller Holder)
- 2) Locate slot in Roll Pin item #12 at six-o'clock position and press to dimension shown



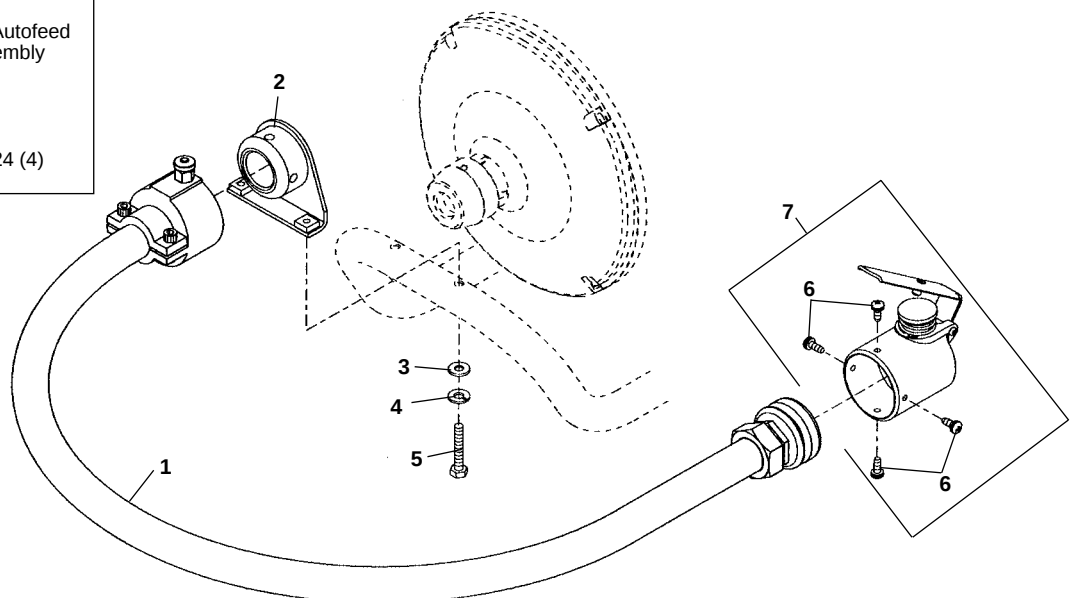
Guide Hose Assembly

NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.

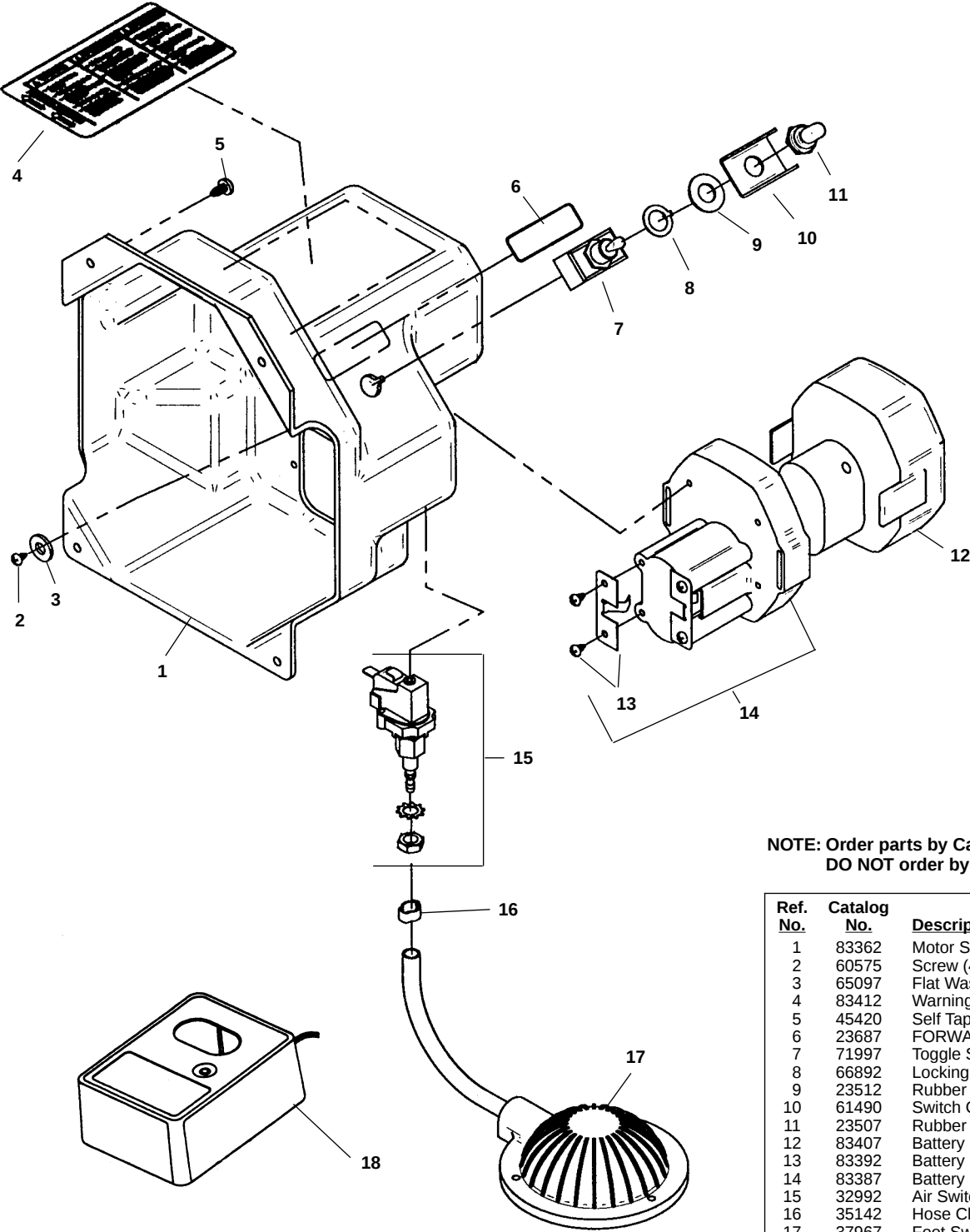
Ref. No.	Catalog No.	Description
—	71757	A-40G Guide Hose Assembly
1	72472	Bushing, Autofeed
2	72477	Guide Hose Connector
3	72467	Hose, 4 ft.
4	40910	Hex Cap Screw (2)
5	59510	Plunger Pin
6	59815	Guide Hose Bracket



Ref. No.	Catalog No.	Description
—	71762	A-40G PF Guide Hose/Autofeed
1	71757	A-40G Guide Hose Assembly
2	72012	Bracket
3	84720	1/4" Flat Washer (2)
4	60075	1/4" Lock Washer (2)
5	73132	1/4" - 20 Hex Bolt (2)
6	68937	Pan Head Screw #10 - 24 (4)
7	67962	A-39PF Autofeed



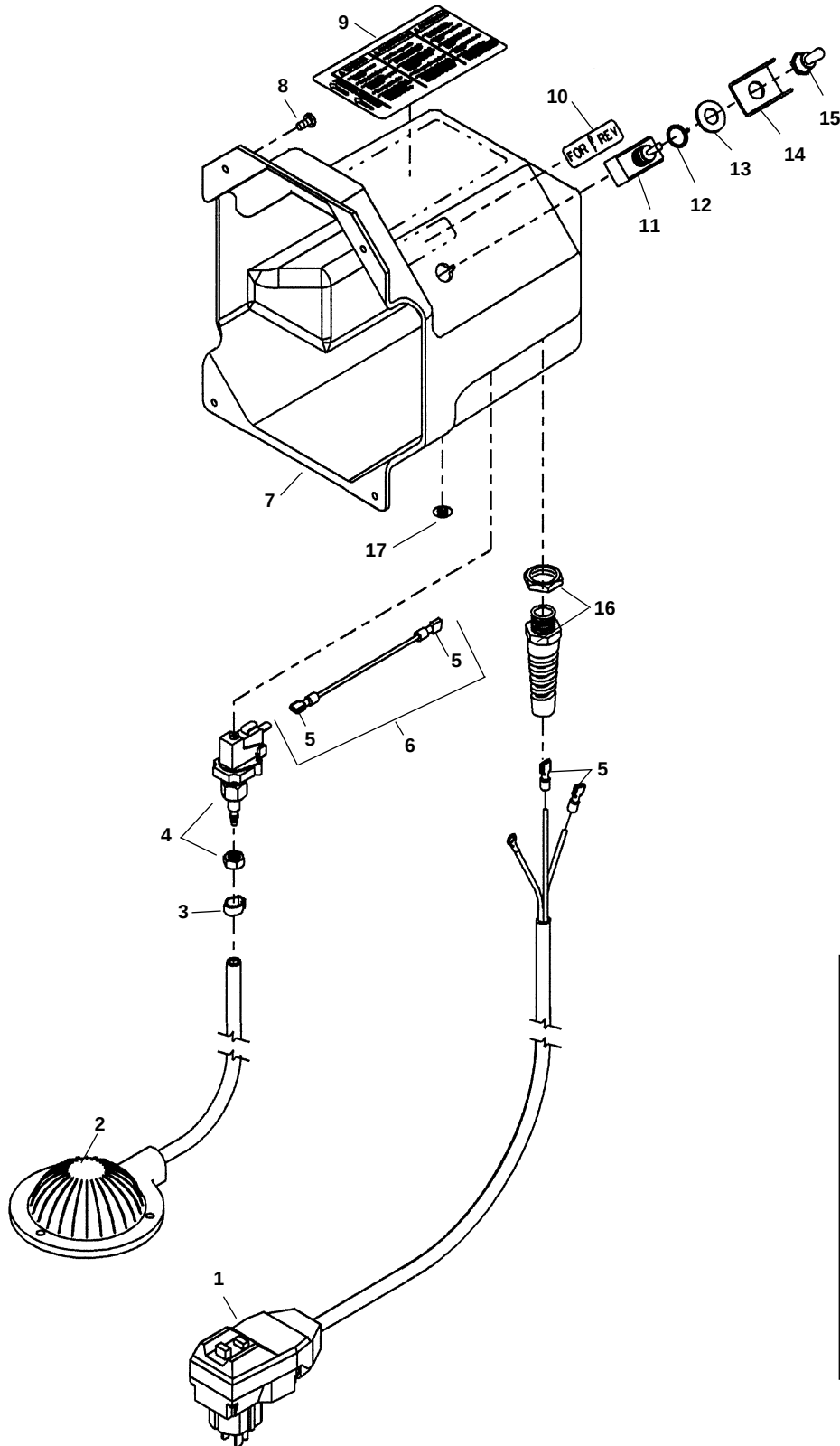
Electric Components



NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.

Ref. No.	Catalog No.	Description
1	83362	Motor Shroud
2	60575	Screw (4)
3	65097	Flat Washer #6
4	83412	Warning Label
5	45420	Self Tapping Screw #10 - 24 (8)
6	23687	FORWARD/REVERSE Label
7	71997	Toggle Switch
8	66892	Locking Ring
9	23512	Rubber Washer
10	61490	Switch Guard
11	23507	Rubber Boot
12	83407	Battery 14.4V
13	83392	Battery Clips w/Screws
14	83387	Battery Socket Assembly
15	32992	Air Switch
16	35142	Hose Clamp
17	37967	Foot Switch Assembly
18	83417	Charger 115V

Electric Components



**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

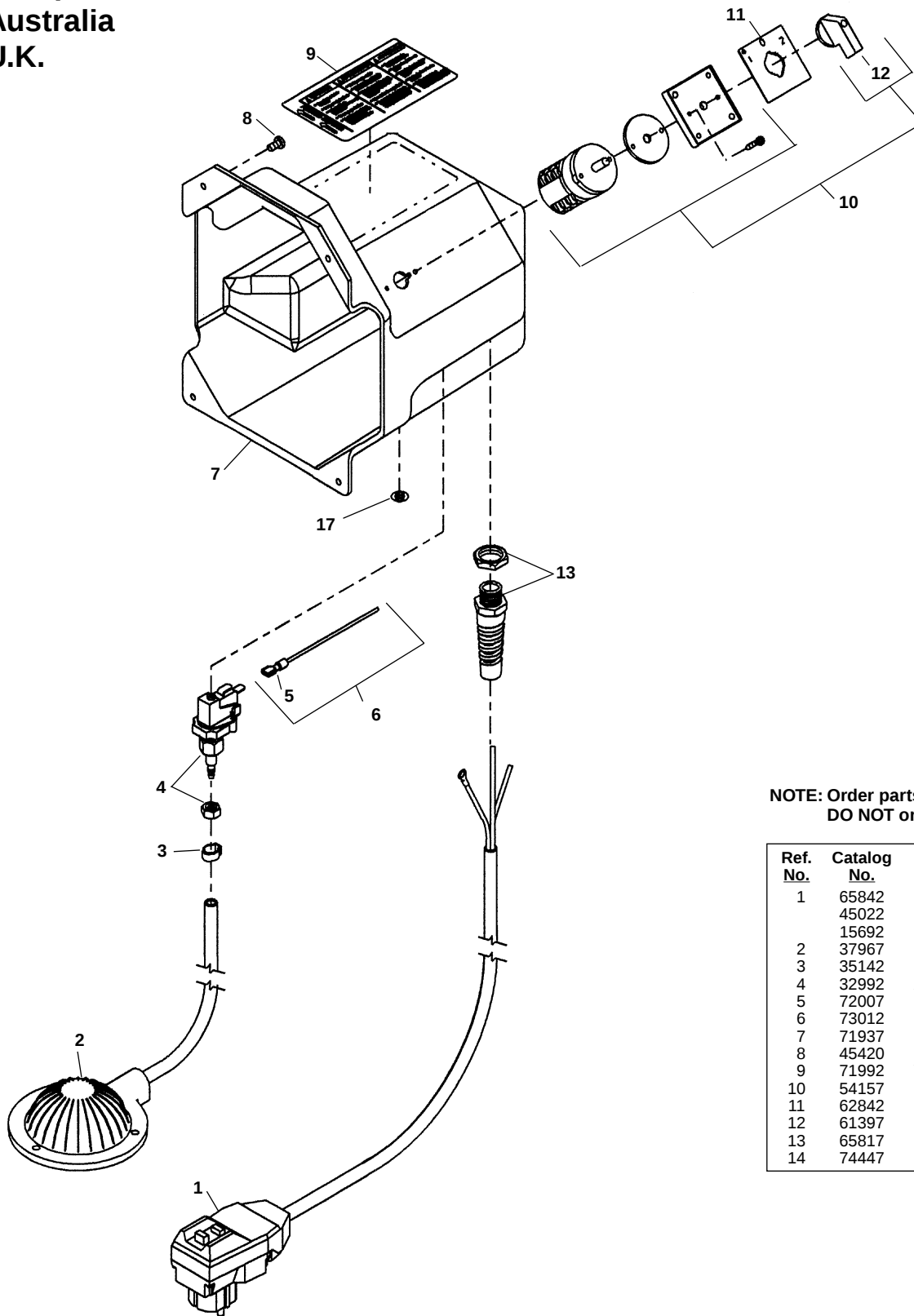
Ref. No.	Catalog No.	Description
1	72002	Line Cord w/GFCI - 115V
	66882	Line Cord - 100V Japan
	15707	Line Cord - 230V Export
2	37967	Foot Switch Assembly
3	35142	Hose Clamp
4	32992	Air Switch
5	72007	Quick Disconnect (4)
6	73012	Lead Wire
7	71937	Shroud
8	45420	Self Tapping Screw #10 - 24 (8)
9	71992	Warning Label
10	23687	FORWARD/REVERSE Label
11	71997	Toggle Switch
12	66892	Locking Ring
13	23512	Rubber Washer
14	61490	Switch Guard
15	23507	Rubber Boot
16	65817	Strain Relief
17	74447	Plug

Electrical Components

Europe

Australia

U.K.

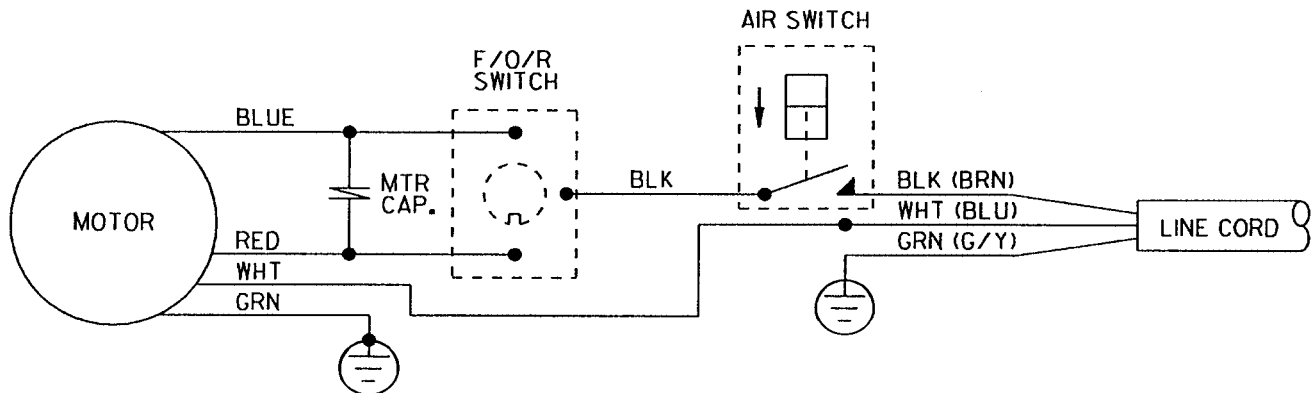


**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

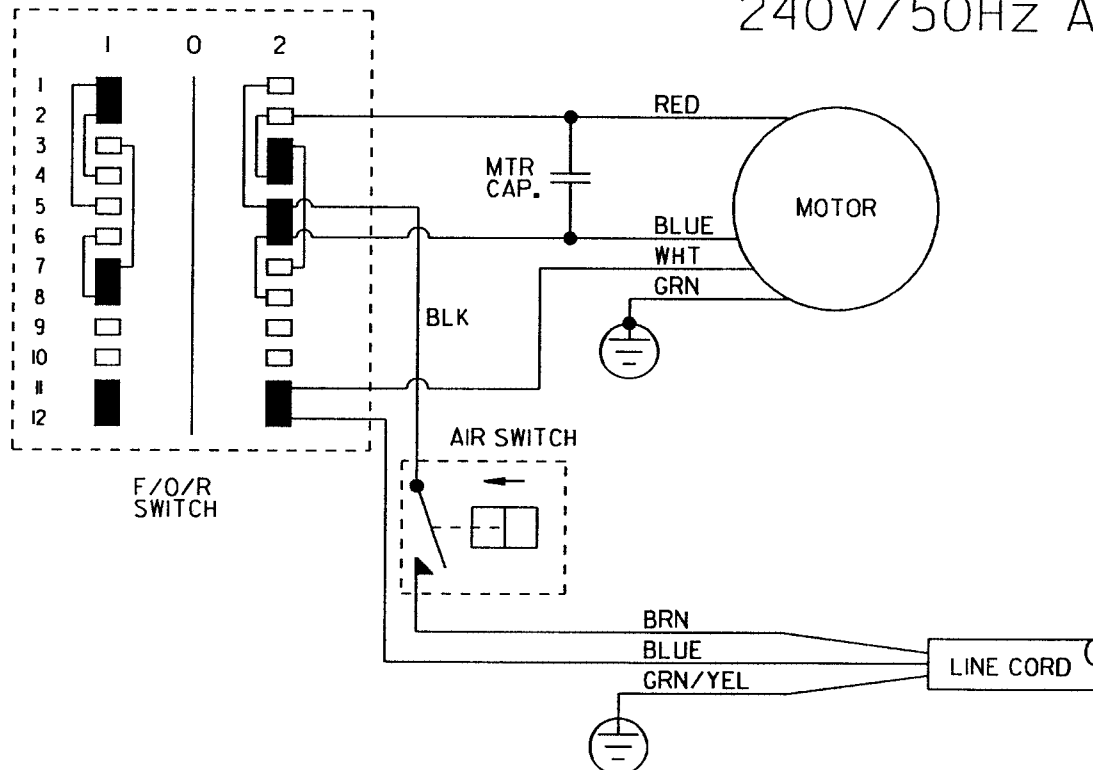
Ref. No.	Catalog No.	Description
1	65842	Line Cord w/GFCI-220V Europe
	45022	Line Cord w/Plug 110V U.K.
	15692	Line Cord w/Plug 240V Australia
2	37967	Foot Switch Assembly
3	35142	Hose Clamp
4	32992	Air Switch
5	72007	Quick Disconnect
6	73012	Lead Wire
7	71937	Shroud
8	45420	Self Tapping Screw #10 - 24 (8)
9	71992	Warning Label
10	54157	Rotary Switch
11	62842	Switch Plate
12	61397	Switch Knob
13	65817	Strain Relief Plug
14	74447	Plug

K-40 Wiring

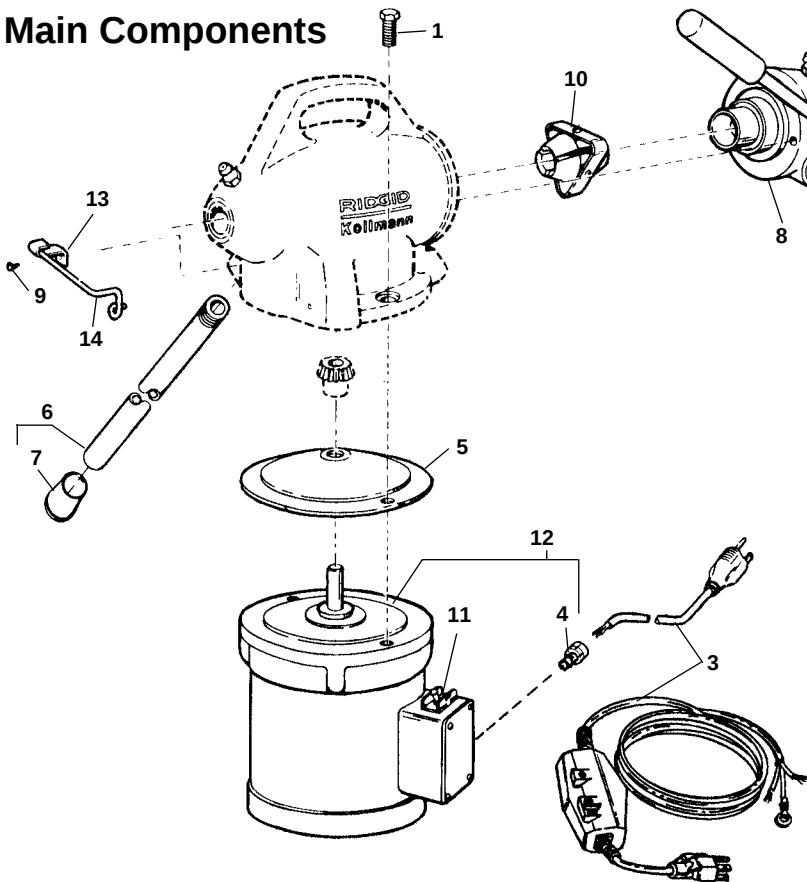
MOTOR WIRING DIAGRAM
115V/60Hz
230V/50Hz EXPORT
100V/50-60Hz JAPAN



MOTOR WIRING DIAGRAM
230V/50Hz EUROPE
240V/50Hz AUSTRALIA



Main Components

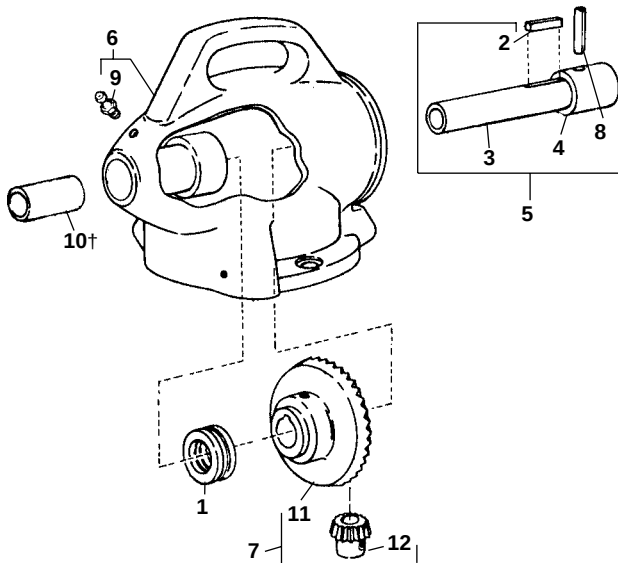


NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.

Ref. No.	Catalog No.	Description
1	59785	Screw (2)
2	60910	Screw (2)
3	50507	Cord with GFCI
	27656	Cord (Europe)
4	41147	Strain Relief
5	61935	Insulating Motor Gasket
6	59825	Legs w/Rubber Feet (3 per set) (Incl. Ref. No. 7)
7	59965	A-2240 Rubber Feet (3)
8	59975	A-2244-X Rack and Pinion Assembly
9	59990	A-2256 Screw (2)
10	59450	A-3179 Clutch Jaw Assembly
11	95845	Switch DPDT - 6 Terminal (Emerson Motor)
	41817	Switch 3PDT - 9 Terminal (Emerson Motor)
	24236	Switch (Europe)
12	69265	Motor Assembly - 115V (Incl. Ref. Nos. 4 and 11)
	16716	Motor Assembly (230V Europe)
*	31336	Motor Shaft Seal (Europe)
*	31346	Switch Cover (Europe)
*	24246	Switch Box (Europe)
*	29976	Run Capacitor (Europe)
13	89800	Catch
14	89805	Pin
15	84507	K-50 Contact Switch (Emerson Motor Only -Part Not Shown)

* Parts Not Shown - Europe Only

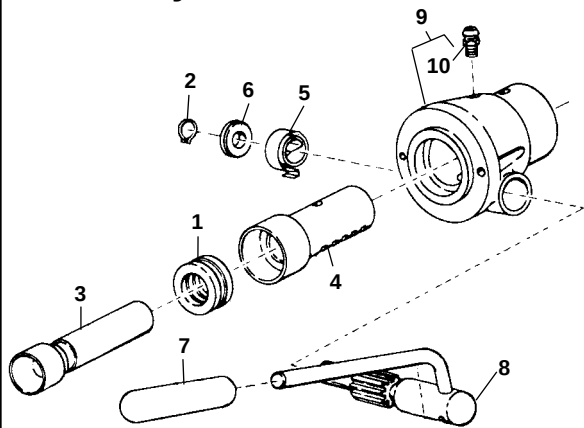
Bevel Gear and Related Parts



Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	59945	Bearing	7	60985	Bevel and Pinion Gear w/Set Screws
2	60680	Key	8	76830	Spring Pin
3	61570	Shaft	9	89810	Grease Fitting
4	61575	Cone	10†	61715	Bronze Bushing
5	59695	Shaft with Cone	11	24577	Bevel Gear w/Key
6	59960	Body	12	24572	Pinion Gear w/Key

† Service Note: After replacing Bronze Bushing a 1/4" drill bit must be used for drilling a grease hole port for grease fitting.

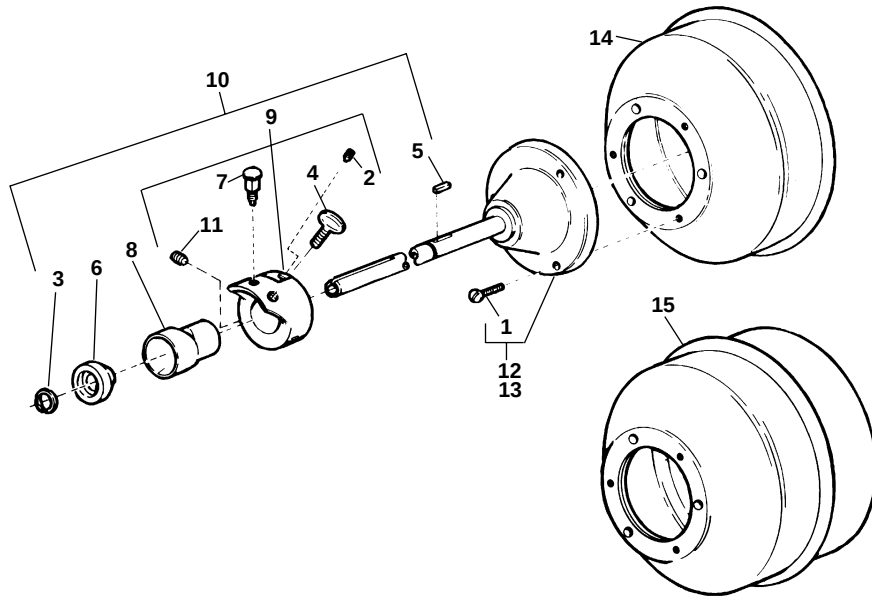
Rack and Pinion Assembly No. A-2244



Ref. No.	Catalog No.	Description
—	59975	Rack & Pinion Assembly
1	59945	Bearing
2	60860	Retaining Ring
3	61580	Rear Clutch Cone Sleeve
4	61585	Gear Rack
5	61595	Pinion Spring
6	61600	Pinion Stem Washer
7	61605	Handle Grip
8	59980	Handle with Pinion Assembly
9	60965	Rack and Pinion Housing (Incl. Ref. No. 10)
10	89810	Grease Fitting

Cable Adapters

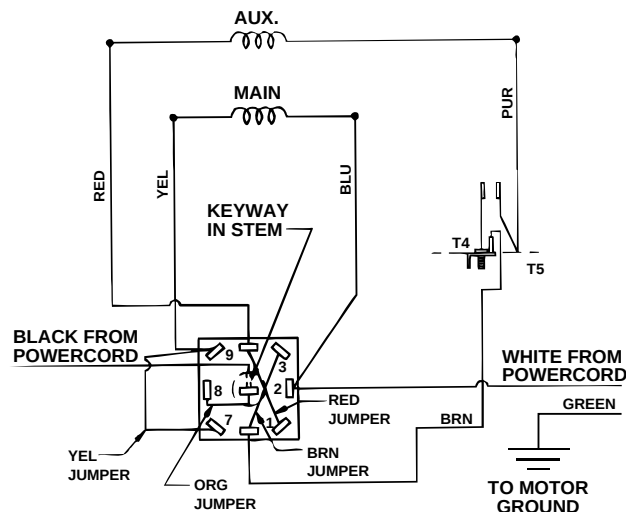
Cable No.	Description
59250	A-17-A Cable Adapter (Includes C-1 Cable - $\frac{5}{16}$ " x 25' long with Bulb Auger)
59245	A-17-A Cable Adapter - Less Cable
59255	A-17-B Cable Adapter (Includes C-5 Cable - $\frac{3}{8}$ " x 35' long with Bulb Auger)
59260	A-17-B Cable Adapter - Less Cable
59265	A-17-C Cable Adapter (Includes C-6 Cable - $\frac{3}{8}$ " x 35' long with Male Coupling)
59260	A-17-C Cable Adapter - Less Cable
92095	A-17-D Cable Adapter (Includes C-21 Cable - $\frac{5}{16}$ " x 50' long with Bulb Auger)
92100	A-17-E Cable Adapter (Includes C-22 Cable - $\frac{5}{16}$ " x 50' long with Drop Head Auger)



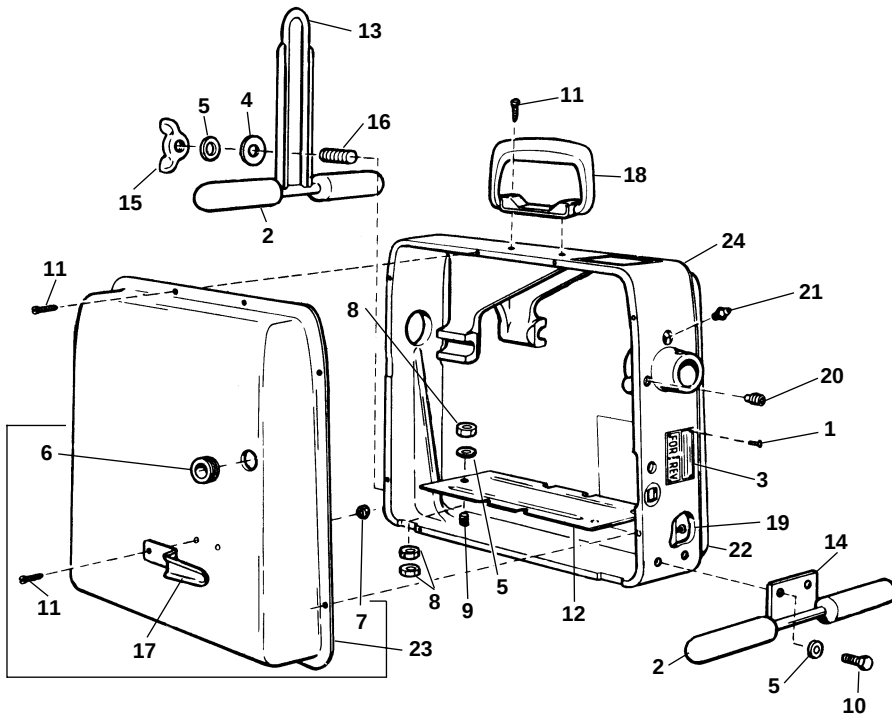
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description
1	61540	Screw (3)
2	61550	Screw
3	61555	Retaining Ring
4	79935	Thumb Screw (2)
5	61565	Key
6	61735	Brake Cone (Male)
7	59510	Plunger Pin
8	59630	Brake Cone (Female)
9	59760	Adapter Bracket
10	59790	Adapter Bracket Assembly (Incl. Ref. Nos. 7, 4, 2 and 11)
11	60025	Screw (2)
12	60325	Tube and Flange with Screws ($\frac{5}{16}$ " Cable Adapter) (Incl. Ref. No. 1)
13	60335	Tube and Flange with Screws ($\frac{3}{8}$ " Cable Adapter) (Incl. Ref. No. 1)
14	63255	Cable Container ($\frac{5}{16}$ " x 25' Cable Only)
15	63250	Cable Container ($\frac{3}{8}$ " x 35' and $\frac{5}{16}$ " x 50' Cable)

K-50 Wiring Diagram



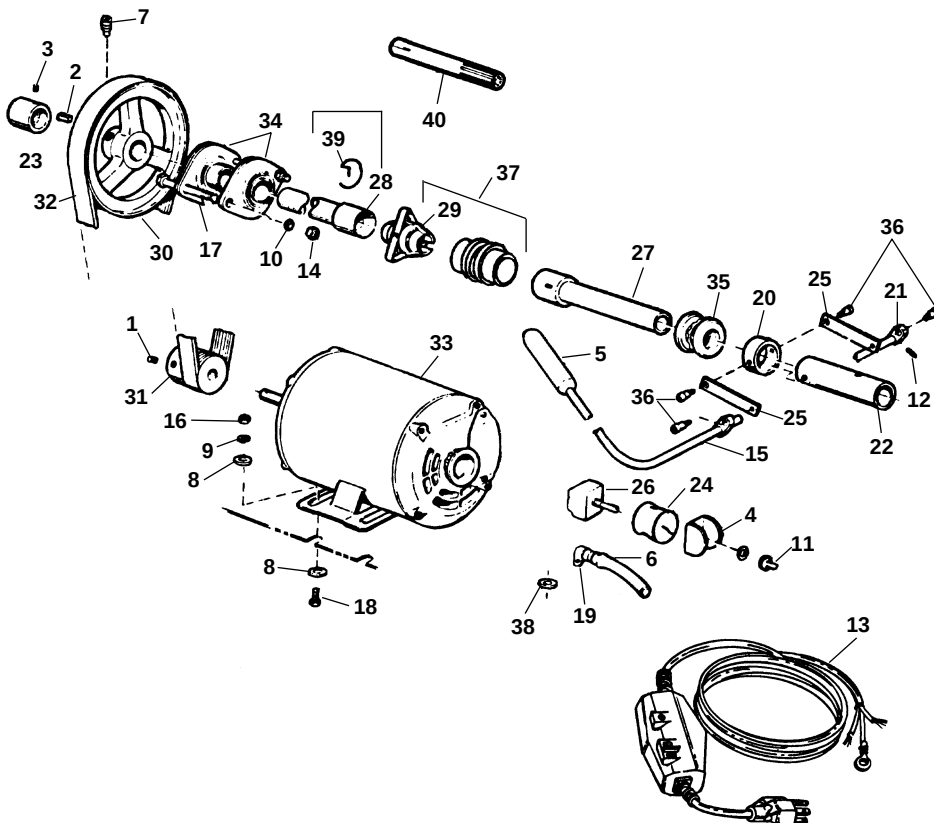
Main Body Components (Old Style)



**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description
1	61480	A-413 Drive Screw (4)
2	61605	A-580 Rubber Grip (4)
3	59605	A-1565 FOR/OFF/REV Tag
	39552	FOR/REV Plate PR0-60
4	60060	A2284 Washer (6)
5	60080	A2289 Lock Washer (7)
6	60180	A2345 Rubber Grommet
7	60810	A2838 Hex Nut (4)
8	61115	A3248 Hex Nut (13)
9	61125	A3250 Stud (3)
10	61130	A3251 Screw (2)
11	61135	A3256 Screw (23)
12	61155	A3282 Motor Mount
13	61160	A3288 Elevator Bracket
14	61200	A3296 Rear Leg Assembly
15	61235	A3306 Wing Nut (2)
16	61245	A3308 Stud (2)
17	61250	A3311 Cord Hook (2)
18	61255	A3313 Handle
19	61285	A3377 Screw (Brass)
20	76910	A3904 Set Screw
21	89810	A6150 Grease Fitting
22	62160	B3277 Cover (Right)
23	62165	B3312 Cover (Left)
24	62480	D3276 Body Casting

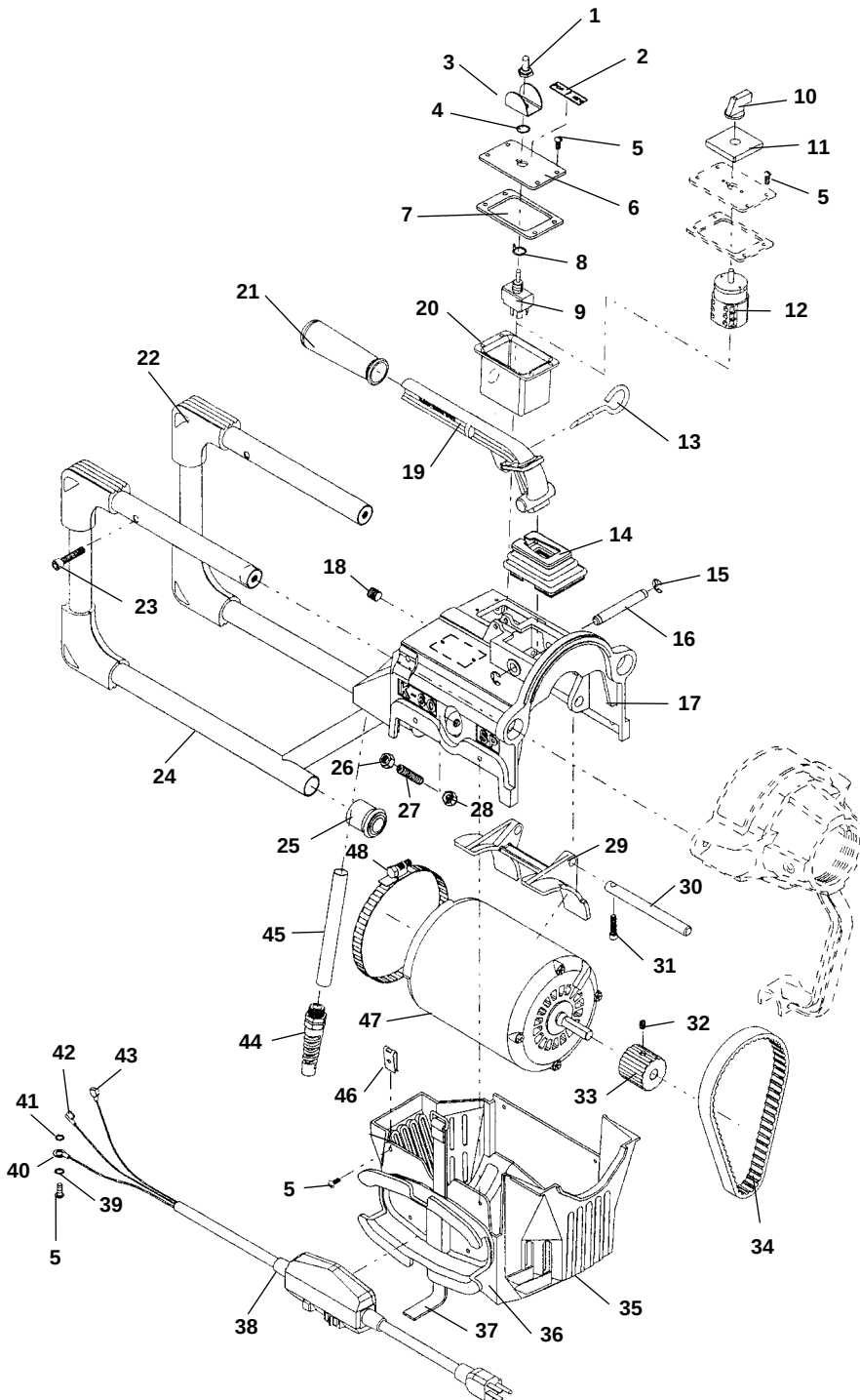
Main Drive Components



Ref. No.	Catalog No.	Description
1	60330	A-247 Set Screw
2	60680	A-270 Key
3	61475	A-412 Set Screw (2)
4	61490	A-418 Switch Guard
5	61605	A-580 Rubber Grip
6	59720	A-1946 Cord Sleeve
	13187	Cord Sleeve PR0-60
7	60025	A-2271 Set Screw
8	60060	A-2284 Washer (8)
9	60080	A-2289 Lock Washer (4)
10	60085	A-2290 Lock Washer (2)
11	23507	Switch Seal PR0-60
12	60240	A-2417 Spring Pin
13	50507	Power Cord w/GFCI
14	60395	A-2492 Hex Nut (2)
15	61105	A-3246 Handle Assembly
16	61115	A-3248 Hex Nut (4)
17	61120	A-3249 Bolt (2)
18	96260	A-7359 Carriage Bolt (4)
19	61140	A-3275 Clamp
20	69260	A-3281 Collar
21	61145	A-3283 Lever
22	61150	A-3284 Bearing
23	61165	A-3289 Sleeve
24	39762	Shrink Tube PR0-60
25	61175	A-3291 Link (2)
26	61180	A-3292 Switch Assembly
27	61185	A-3293 Shaft Cone Idler
28	61190	A-3294 Shaft Cone Drive (Incl. Ref. No. 39)
29	61195	A-3295 Clutch Assembly
30	61205	A-3299 Pulley (Driven)
31	61210	A-3300 Pulley (Drive)
32	61215	A-3301 Belt
33	61220	A-3302 Motor (115V)
	76790	Motor (230V) PR0-60
34	61225	A-3303 Ball Bearing (2)
35	61230	A-3304 Thrust Bearing
36	61240	A-3307 Screw (4)
37	39757	Clutch Assy. w/Boot PR0-60
38	61310	A-3439 Lock Washer
39	97315	A-7109 Drive Spring
40	61640	A-3270 Collet
Following Parts not shown		
	59955	A-2234 Terminal (3)
	61270	A-3327 Wire (4)

Main Body Components

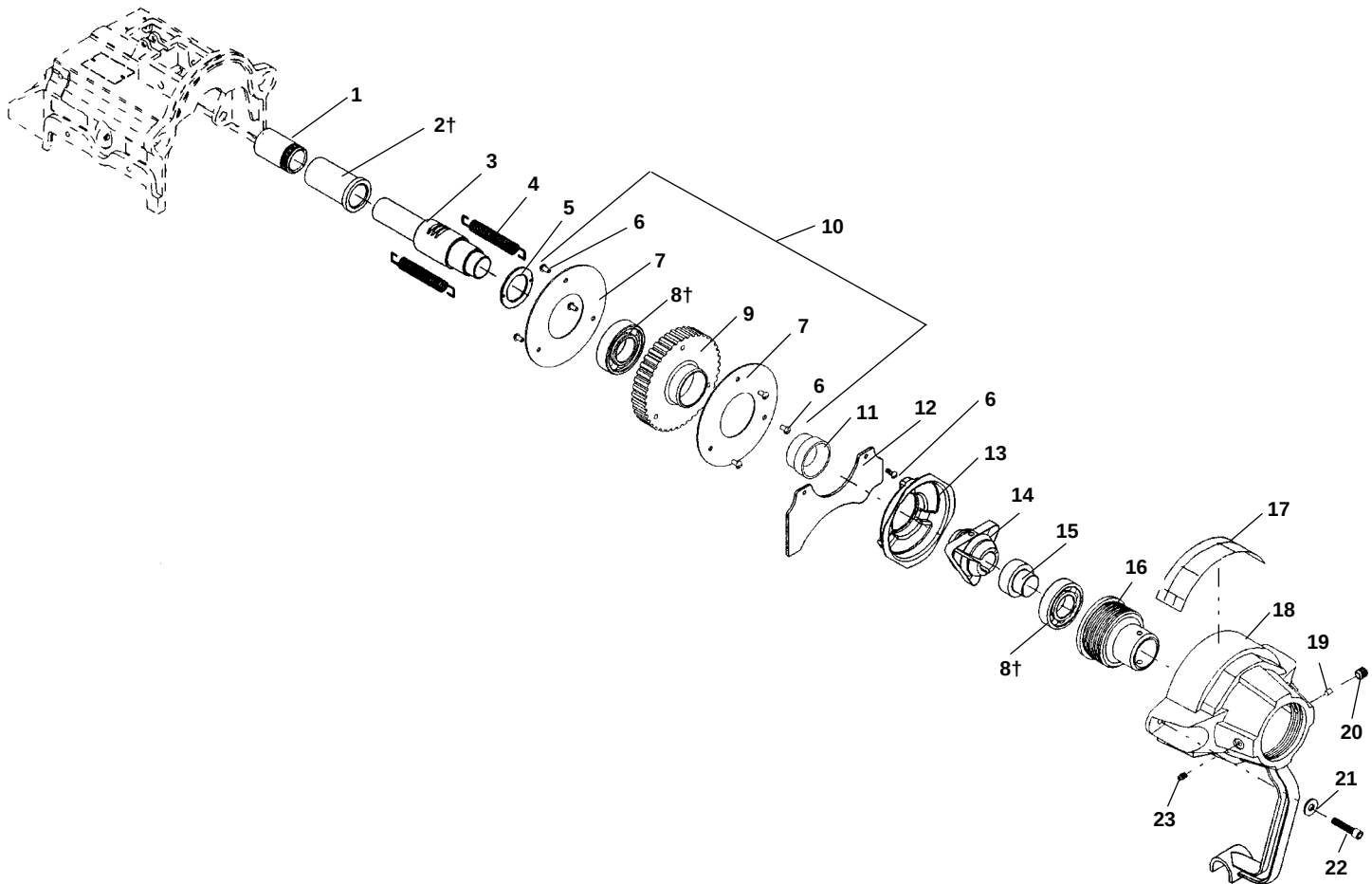
NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.



Ref. No.	Catalog No.	Description
1	23507	Rubber Boot
2	23687	FOR/OFF/REV Decal
3	61490	Switch Guard
4	23512	Rubber Washer
5	93585	10 - 24 x 1/2" Screw (9)
6	65762	Switch Box Cap
7	66887	Gasket
8	66892	Locking Ring
9	23612	Toggle Switch
10	61397	Switch Knob (Export)
11	57517	FOR/OFF/REV Switch Plate (Export)
12	54157	Switch (Export)
13	59225	Pin Key
14	65852	Rubber Boot
15	65742	Retaining Rings (2)
16	65737	Pinion Shaft
17	65732	Main Housing Assembly
18	65867	Plastic Socket Set Screw
19	65747	Handle Assembly w/Grip
20	65757	Switch Box
21	60827	Handle Grip
22	65772	Frame Bumpers (4)
23	79685	5/16" - 18 x 1 1/2" Socket Screw (4)
24	65767	Frame Assembly w/Bumpers
25	37962	Rubber Foot (2)
26	83545	3/8" - 16 Hex Jam Nut
27	65782	3/8" Stud
28	65787	Nylon Acorn Nut
29	65792	Motor Mounting Bracket
30	65797	Motor Mounting Pin
31	59935	1/4" - 20 x 1" Socket Screw
32	87580	1/2" - 20 Set Screw
33	65807	Motor Pulley
34	65802	Belt
35	65822	Motor Shroud w/Cord Wrap (Inc. Ref No. 46)
36	66907	Cord Wrap w/Rivets
37	48007	Cinching Strap
38	50497	Replacement GFI Cord
—	65842	Replacement GFI Cord (Europe)
—	66882	Line Cord (Export)
—	66757	Accessory GFCl (Europe)
39	61310	Star Washer
40	59955	Ring Terminal
41	87970	#10 - 24 Nut
42	59007	Terminal
43	59002	Splicer
44	65817	Strain Relief w/Nut
45	59342	Insulator Tube
46	65857	Clips (4)
47	65832	Motor - 115V/60Hz
—	65837	Motor - 230V/50Hz (Europe)
—	66872	Motor - 115V/50Hz (Export)
48	65812	Bracket Strap (2)

† - Apply Loctite ® #411 to Frame Bumper (Ref. #22)

Main Drive Components



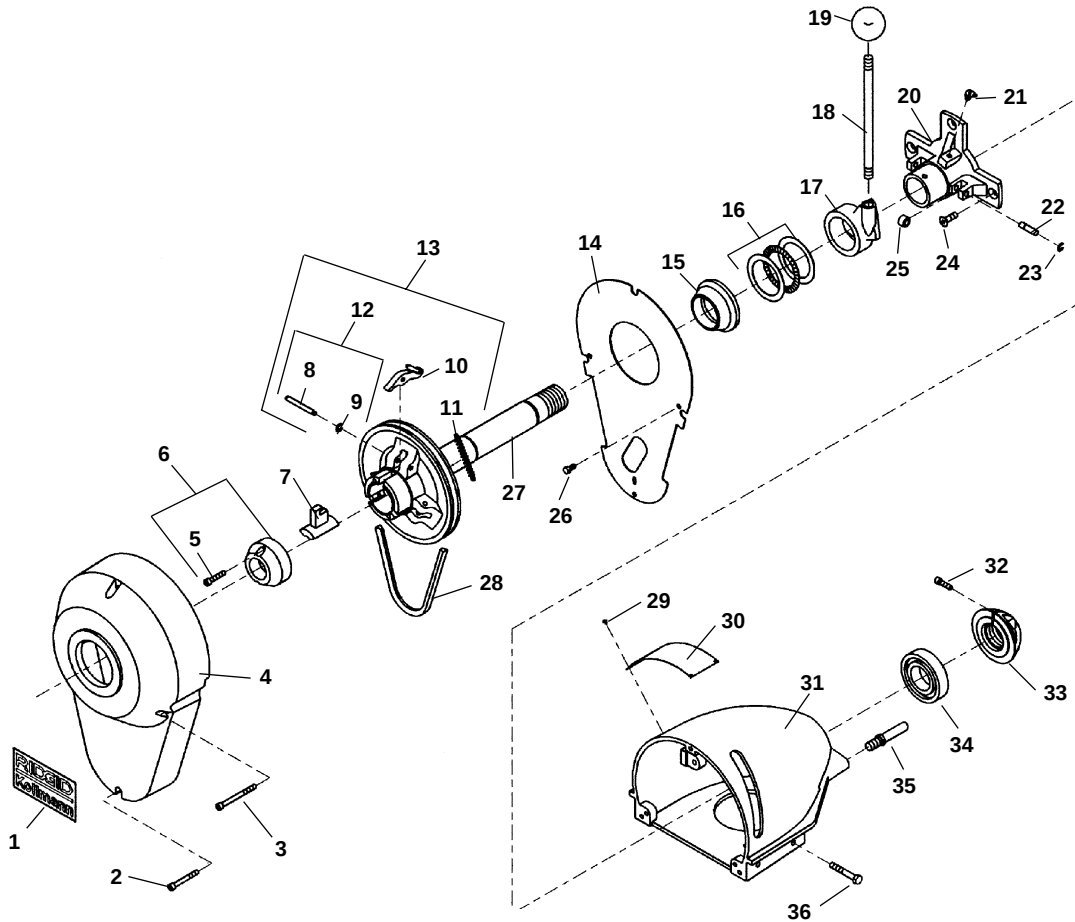
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	65727	Steel Insert	14	65687	Clutch Jaw
2	65722	Sleeve Bearing	15	65682	Idler Cone
3	65712	Shaft w/Rack	16	65672	Adjustment Cap
4	65717	Extension Spring (2)	17	65667	Warning Label
5	65707	Spring Plate	—	65862	Warning Label (Export)
6	61110	10 - 32 x 3/8" Screw (8)	18	65652	Jaw Housing Assembly (Inc. Ref #'s 19, 20, 23)
7	66877	Pulley Flange (2)	19	65662	Nylon Plug
8	65677	Bearing (2)	20	42037	1/2" - 13 x 1/2" Screw
9	66902	Pulley	21	60060	Washers (2)
10	65702	Pulley	22	79685	5/16" x 1-1/2" Socket Screw (2)
11	66897	Drive Cone	23	65657	Grease Fitting
12	65697	Baffle			
13	65692	Jawset Cover			

† – Apply Loctite ® #642 to O.D of Sleeve Bearing (Ref. #2).

† – Apply Loctite ® #642 to I.D. of Bearings (Ref. #8) prior to assembly into Shaft w/Rack (Ref. #3) and Idler Cone (Ref. #15).

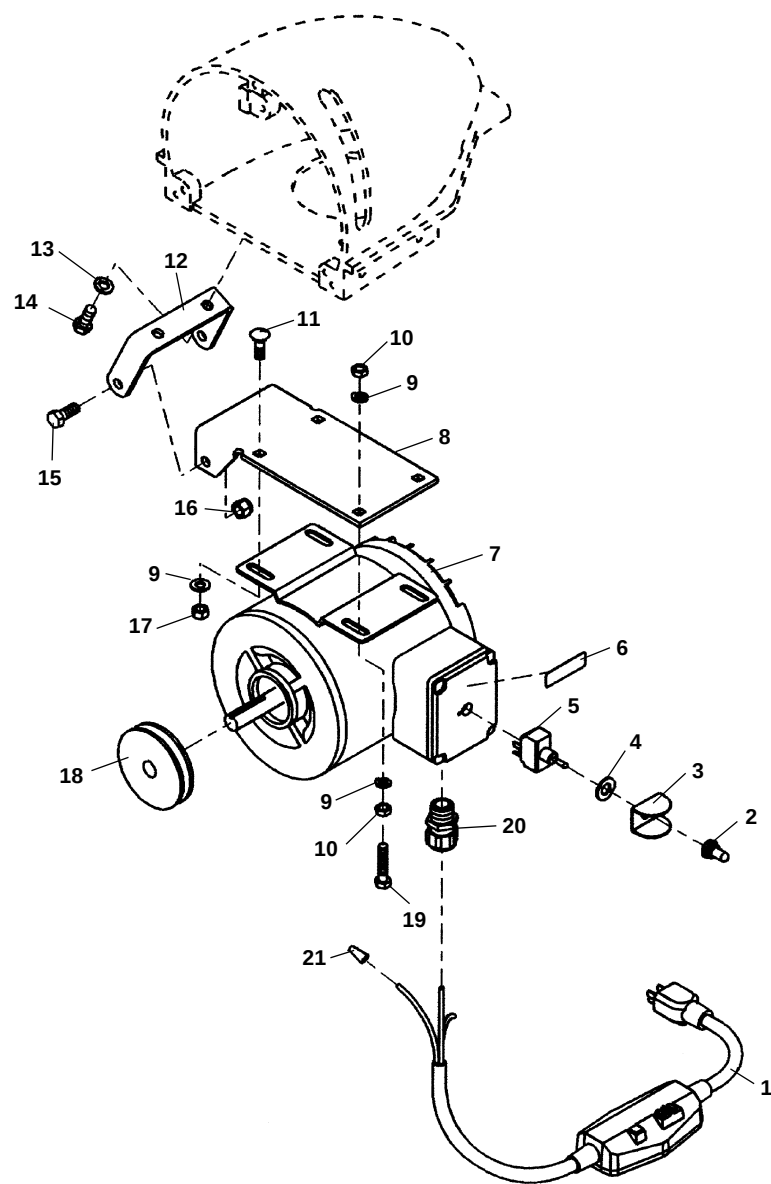
Main Components



NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	23657	Label (K-75A)	18	59575	Clutch Handle
	24102	Label (K-75B)	19	59585	Clutch Knob
	23662	Label (K-1500A)	20	23552	Main Bearing
	24097	Label (K-1500B)	20	45247	Main Bearing (SP Models Only)
	45232	Label (SP Models Only)	21	89815	Grease Fittings
2	44510	Screw	22	23592	Pin (2)
3	23652	Screw (3)	23	34175	Retaining Ring (2)
4	23547	Front Guard	24	68875	Screw (3)
5	84425	Screw (2)	25	61015	Roller (2)
6	59500	Nose Piece (Incl. Ref. #29)	26	60265	Screw (2)
7	59330	Jaw Assembly (K-75) 5/8" Cable	27	23562	Pulley & Shaft Assembly
	59325	Jaw Assembly (K-75/K-1500) 7/8" Cable	28	23577	V-Belt
	59320	Jaw Assembly (K-1500) 1 1/4" Cable	29	76730	Screw (6)
8	90105	Pin (3)	30	23632	Warning Label
9	78780	Retaining Ring		45282	Warning Label (SP Models Only)
10	59530	Rocker Arm Set	31	23542	Body
11	60155	Spring (3)	32	60910	Screw
12	60150	Rocker Arm Pin	33	60935	Lock & Adj. Nut (Incl. #2)
13	60145	Rocker Arm Kit	34	60930	Ball Bearing
14	23567	Inside Guard	35	59580	Guide Hose Pin (2)
15	23572	Clutch Cone	36	87405	Screw (4)
16	23677	Thrust Bearing Assembly		43757	Screw (4) (SP Models Only)
17	23557	Clutch Casting			

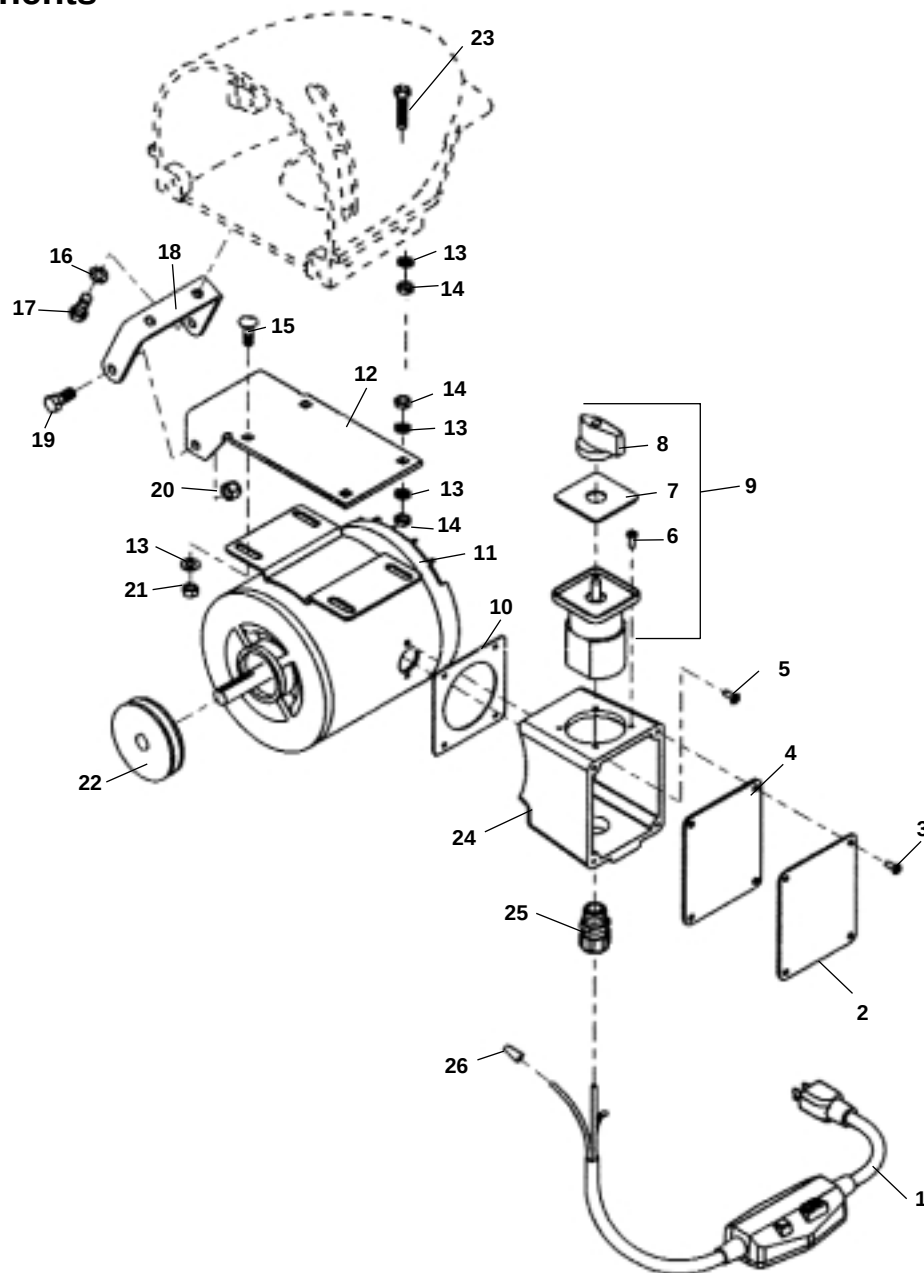
Motor Components



NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	50507	Line Cord w/GFCI	11	96260	Carriage Bolt $\frac{5}{16}$ " - 18 x $\frac{3}{4}$ " (3)
2	23507	Rubber Boot	12	23642	Motor Bracket
3	61490	Switch Guard	13	60085	Lock Washer (2)
4	23512	Rubber Washer	14	60380	Screw (2)
5	23612	Switch	15	59785	Screw (2)
6	23687	FOR-REV Decal	16	43947	Lock Nut $\frac{3}{8}$ " - 16 (2)
7	23517	Motor $\frac{1}{2}$ Hp 120V 60Hz (K-75)	17	60230	Hex Nut $\frac{5}{16}$ " - 18 (3)
	23522	Motor $\frac{3}{4}$ Hp 120V 60Hz (K-1500)	18	23582	Pulley (K-1500)
	50567	Motor $\frac{3}{4}$ Hp 220/240V 50Hz (K-1500)		23587	Pulley (K-75)
8	54582	Motor Table	19	43847	Hex Screw $\frac{5}{16}$ " - 18 x 1 $\frac{1}{2}$ "
9	60080	Lock Washer $\frac{5}{16}$ " (2)	20	96265	Strain Relief
10	61115	Jam Nut $\frac{5}{16}$ " - 18 (2)	21	44635	Wire Nut

Motor Components

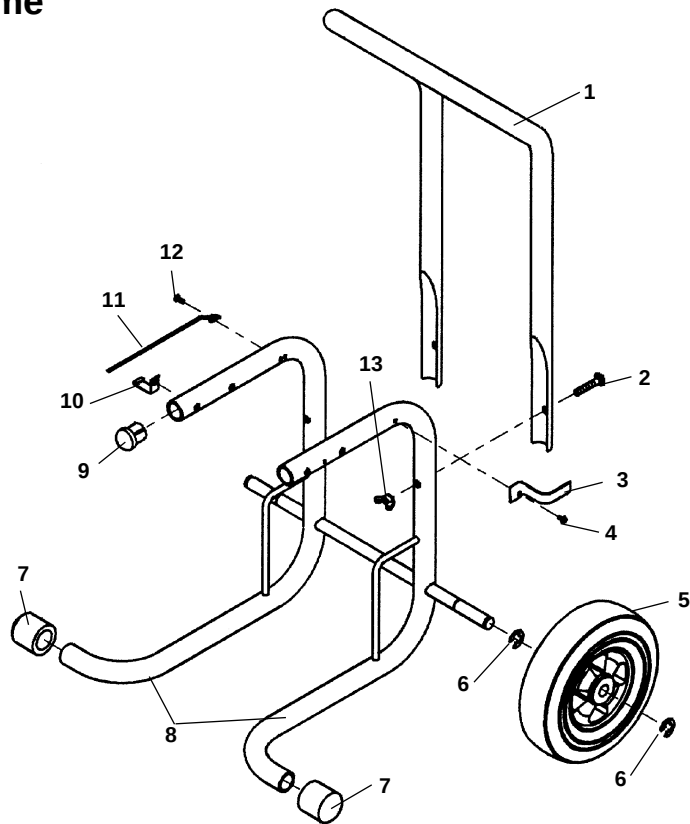


**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	50502	Line Cord w/GFCI	13	66080	Lock Washer $\frac{5}{16}$ " (6)
	45022	Line Cord 110V – U.K.	14	61115	Jam Nut $\frac{5}{16}$ " - 18 (3)
	39562	Line Cord – Europe	15	96260	Carriage Bolt $\frac{5}{16}$ " - 18 x $\frac{3}{4}$ " (3)
	15707	Line Cord – Export	16	60085	A-2290 Lock Washer (2)
2	45272	Cover Plate	17	60380	A-2481 Screw (2)
3	59990	Screw #10	18	23642	Motor Bracket
4	45267	Cover Plate Gasket	19	59785	A-210 Screw (2)
5	43932	A-2256 Screw (2)	20	43947	Lock Nut $\frac{3}{16}$ " - 16 (2)
6	59727	Switch Mounting Screw (4)	21	60230	Hex Nut $\frac{5}{16}$ " - 18 (3)
7	59712	Switch Plate	22	45227	Pulley
8	59702	Switch Knob	23	43757	Hex Screw $\frac{5}{16}$ " - 18 x 2"
9	59757	Switch Assembly (Includes Ref. No. 6-8)	24	45262	Switch Box
10	45257	Switch Box Gasket	25	50512	Strain Relief
11	45237	Motor 1 Hp	26	44635	Wire Nut
12	54582	Motor Table			

**K-75A
K-75B
K-1500A
K-1500B
K-1500ASP
K-1500BSP**

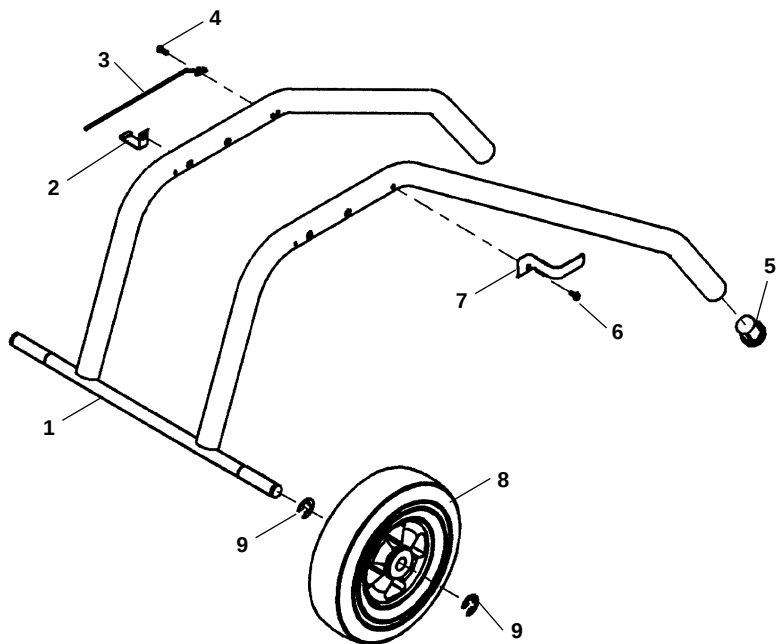
A Frame



**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

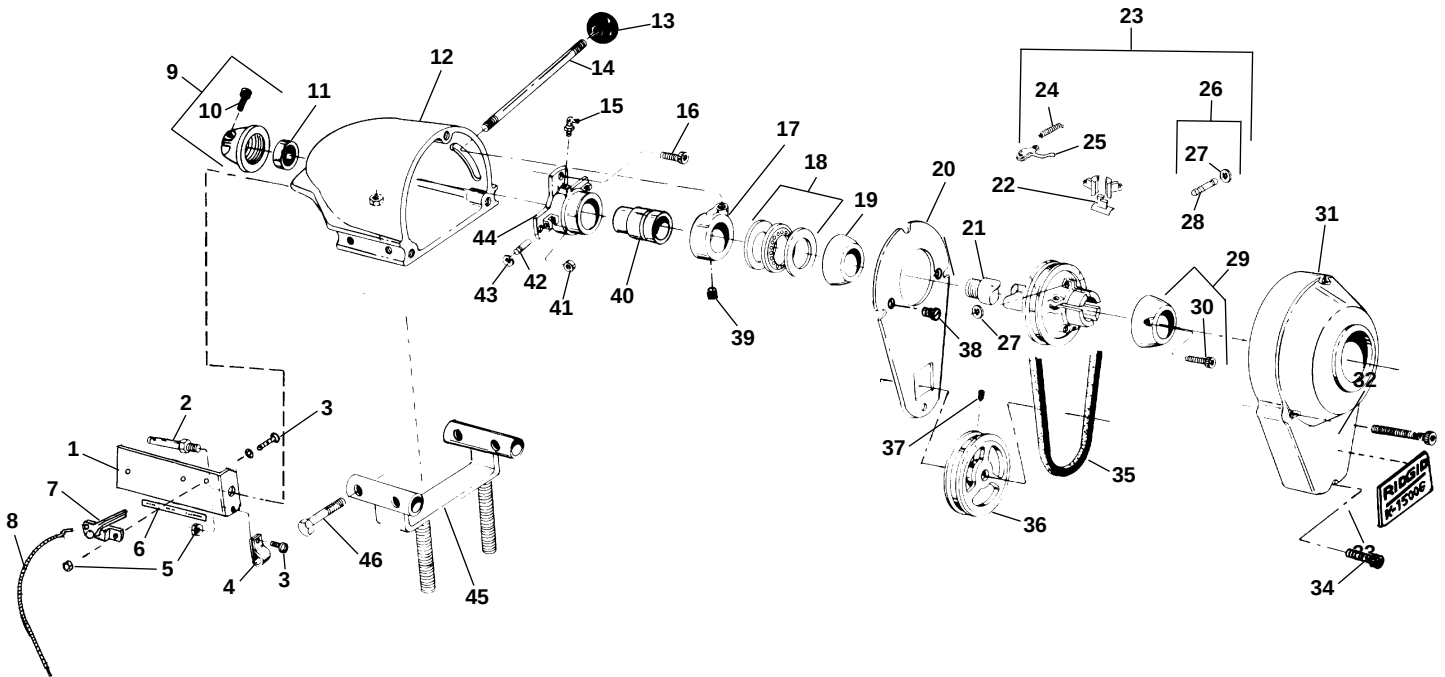
Ref. No.	Catalog No.	Description
1	23537	Handle (Type "A")
2	23617	Bolt (2)
3	61965	Cord Hook w/Screw (2)
4	61500	A-427 Screw (2)
5	23602	Wheel (K-75, K-1500) (2)
	23597	Wheel (SP Models Only) (2)
6	60050	A-2281 Retaining Ring (4)
7	23607	Leg End Cap (2)
8	23532	Frame Assembly
9	61470	A-394 Rubber Plug (2)
10	23647	Tool Clip Bracket
11	23622	Tool Clip
12	59990	A-2256 Screw
	45217	A-7875 Screw (SP Models Only)
13	45385	E-3328 Wing Nut (2)

B Frame



Ref. No.	Catalog No.	Description
1	23672	Frame Assembly
2	23647	Tool Clip Bracket
3	23622	Tool Clip
4	59990	A-2256 Screw
	45217	A-7875 Screw (SP Models Only)
5	61470	A-394 Rubber Plug (2)
6	61500	A-427 Screw (2)
7	61965	Cord Hook w/Screw (2)
8	23602	Wheel (K-75, K-1500) (2)
	23597	Wheel (SP Models Only) (2)
9	60050	A-2281 Retaining Ring (4)

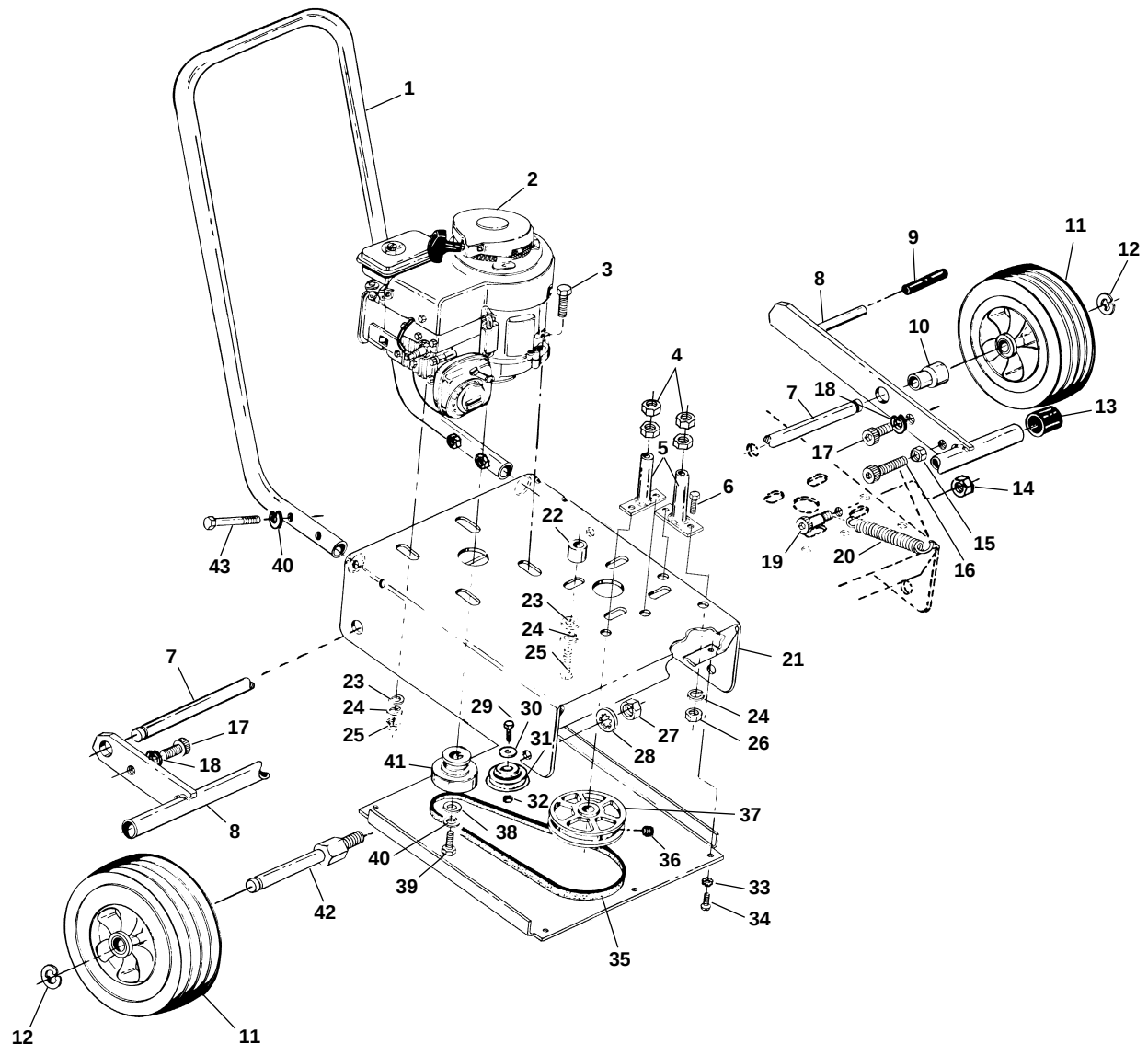
Main Drive and Body Components



**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	43692	Splash Guard	24	60155	Spring (3)
2	59580	Guide Hose Pin (2)	25	59530	Rocker Arm Set
3	87975	R.H. Screw 10-24 x 5/8" (4)	26	60150	Rocker Arm Pin w/Clip (3)
4	43697	Cable Clamp (2)	27	78780	E-3562 Retaining Ring (3)
5	87970	Nut 10 - 24 (4)	28	90105	Pin (3)
6	59282	Engine Throttle Decal	29	59500	Nose Piece
7	58937	Lever Assy. - Throttle Control	30	84425	Screw (2)
8	58942	Throttle Cable	31	23547	Front Guard
9	60935	Lock and Adj. Nut (Incl. #7)	32	23652	Soc. Hd. Screw 1/4" x 2 3/4" (3)
10	60910	Soc. Hd. Screw 1/4" - 20 x 5/8"	33	43717	Label
11	60930	Ball Bearing	34	44510	Soc. Hd. Screw 1/4" - 20 x 2"
12	43702	Body	35	43722	V-Belt - Cable
13	59585	Knob	36	43727	Pulley - Cable
14	59575	Clutch Handle	37	60025	Set Screw (2)
15	89815	Grease Fitting	38	60265	Hex Screw 1/4" - 20 x 1/2" (2)
16	68875	F.H. Screw 5/16" - 18 x 1" (3)	39	93560	Pan Screw 1/4" - 20 x 5/8"
17	43707	Clutch Casting	40	84435	Bronze Bushing
18	23677	Thrust Bearing Assembly	41	61015	Roller (2)
19	23572	Clutch Cone	42	23592	Pin (2)
20	43712	Inside Guard	43	34175	Retaining Ring (2)
21	23562	Pulley and Shaft Assembly	44	45247	Main Bearing with Bronze Bushing
22	59325	1/8" Jaw Assembly	45	43762	Mounting Bracket
23	59320	1 1/4" Jaw Assembly	46	43757	Hex Head Screw (4)
	60145	Rocker Arm Kit			

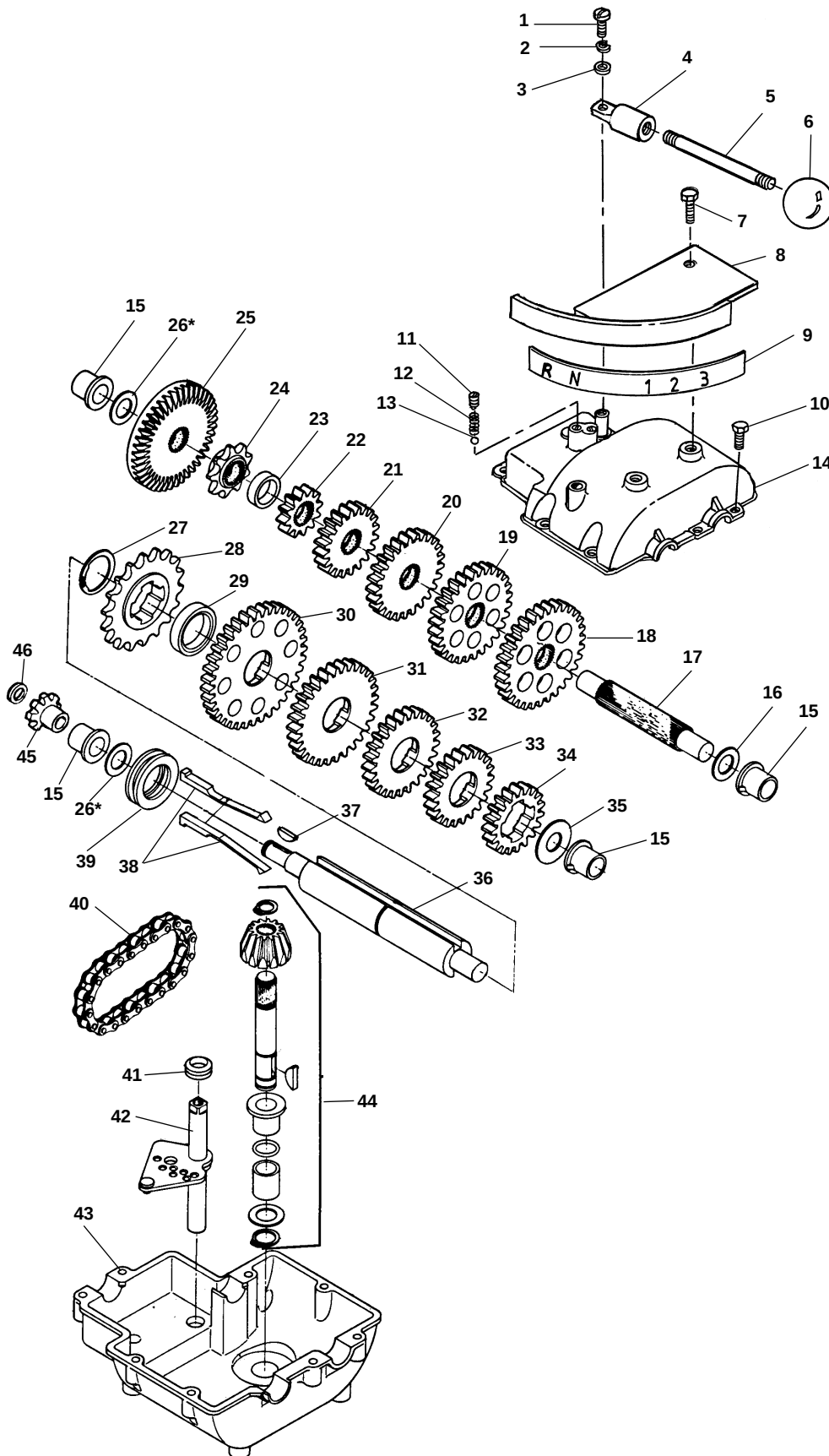
Main Drive and Body Components



NOTE: Order parts by Catalog Number Only
DO NOT order by Reference Number.

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	43752	Handle Assembly	16	60805	Hex Hd. Screw $\frac{3}{16}$ " - 16 x 1 $\frac{1}{2}$ " (2)	31	66962	Idler Pulley
2	66977	Engine/6HP	17	96900	SHCS $\frac{3}{16}$ " - 16 x $\frac{1}{2}$ " (2)	32	43947	$\frac{3}{16}$ " Lock Nut
3	60515	Hex Hd. Screw $\frac{5}{16}$ " - 18 x 1 $\frac{1}{4}$ " (4)	18	43807	Lock Washer $\frac{3}{16}$ " (2)	33	61310	Lock Washer #10 (6)
4	43827	Hex Nut 1" - 8 (4)	19	84680	Slid Screw $\frac{5}{16}$ " x $\frac{1}{2}$ " (2)	34	60000	Rd. Head Screw 10-32 x $\frac{3}{16}$ " (6)
5	43822	Mounting Bracket Supports (2)	20	43812	Extension Spring (2)	35	60130	"V" Belt/5HP
6	61130	Hex Hd. Screw $\frac{5}{16}$ " - 18 x $\frac{3}{4}$ " (4)	21	43817	Base Assembly	35	66967	"V" Belt/6HP
7	43842	Rear Axle	22	43852	Spacer-Trans. (4)	36	60025	Set Screw
8	43787	Stabilizer Assembly	23	60060	Flat Washer $\frac{5}{16}$ " (8)	37	43832	Pulley-Trans
9	61605	Handle Grip	24	61445	Ext. Lock Washer $\frac{5}{16}$ " (12)	38	61275	Washer $\frac{3}{16}$ "
10	43792	Spacer-Axle (2)	25	43847	Hex Nut $\frac{5}{16}$ " - 18 x $\frac{1}{12}$ " (4)	39	61435	Hex Screw $\frac{3}{16}$ " x 1-1 $\frac{1}{4}$ "
11	23597	Wheel (4)	26	60230	Hex Nut $\frac{5}{16}$ " - 18 (8)	40	60085	Lock Washer $\frac{3}{16}$ " (4)
12	60050	Retaining Ring (4)	27	61455	Hex Nut $\frac{1}{2}$ " - 13 (2)	41	61380	Clutch
13	23607	End Cap (2)	28	60090	Lock Washer $\frac{1}{2}$ " (2)	42	43837	Front Axle
14	80370	Hex Nut $\frac{1}{4}$ " - 20 (2)	29	23617	$\frac{3}{8}$ " - 16 x 2" Carriage Screw	43	76870	Hex Head Screw $\frac{3}{16}$ " - 16 x 2 $\frac{1}{4}$ " (5)
15	43747	Lock Nut $\frac{3}{8}$ " (4)	30	59970	$\frac{3}{16}$ " Flat Washer			

Transmission

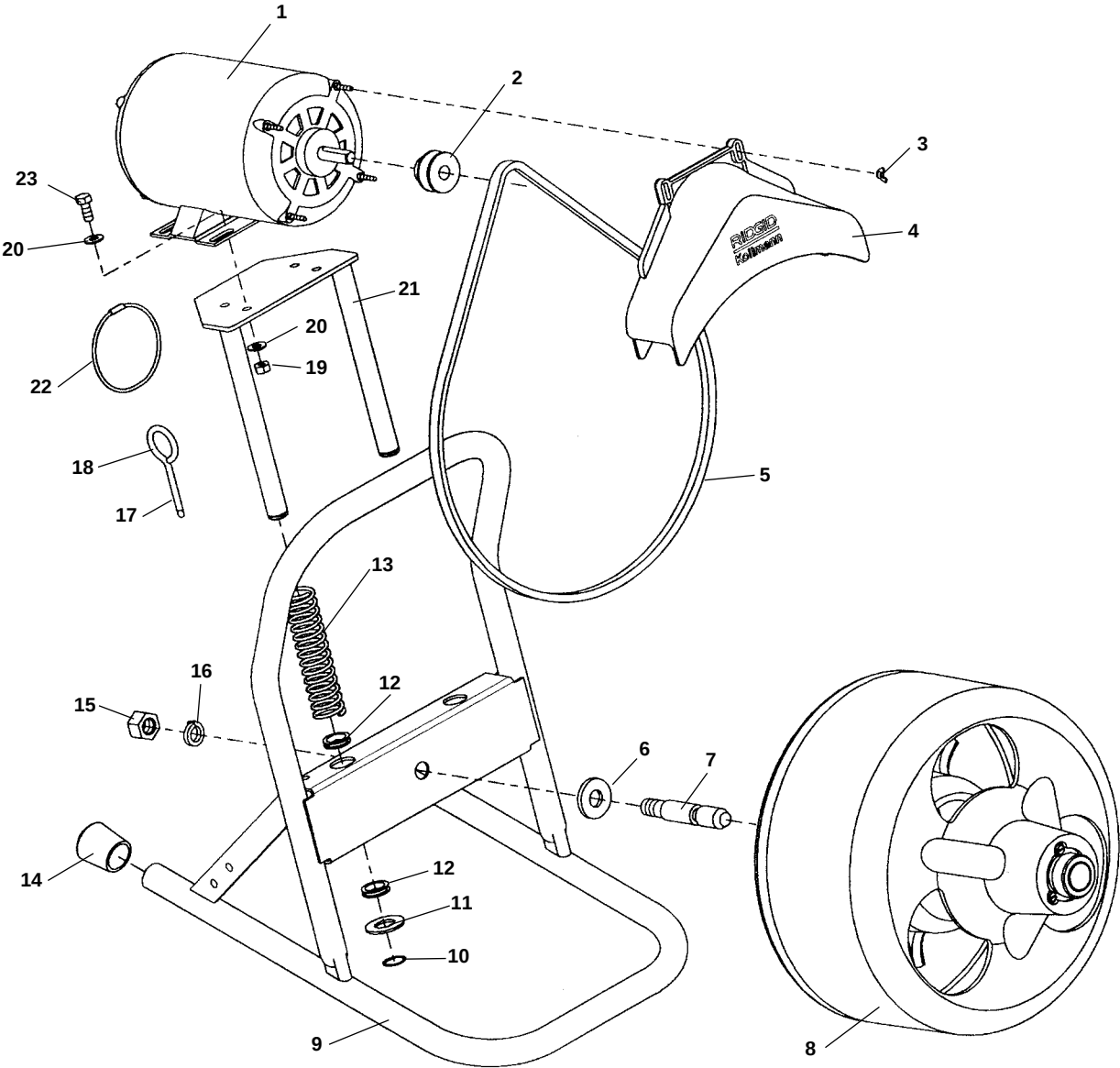


**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description
—	40407	Transmission
1	61540	F.H. Screw, $\frac{1}{4}$ " - 28 x $\frac{5}{8}$ "
2	60075	Lock Washer, $\frac{1}{4}$ "
3	84720	Flat Washer, $\frac{1}{4}$ "
4	43772	Shift Adapter
5	93630	Shift Handle
6	59585	Knob
7	60010	Hex Bolt, $\frac{5}{16}$ " - 18 x $\frac{1}{2}$ "
8	43777	Indicator Bracket
9	47472	Shift Indicator Decal
10	83500	Screw, $\frac{1}{4}$ " - 20 x $\frac{3}{4}$ " (8)
11	46395	Set Screw, $\frac{1}{4}$ " - 20 x $\frac{1}{2}$ " (2)
12	40437	Detente Spring (2)
13	84650	Detente Ball (2)
14	40442	Upper Housing
15	40447	Bearing Flange (4)
16	40452	Washer .640 x 1.00 x .060
17	40457	Drive Shaft
18	40462	Spur Gear 31T
19	40467	Spur Gear 28T
20	40472	Spur Gear 25T
21	40477	Spur Gear 20T
22	40482	Spur Gear 15T
23	40487	Spacer
24	40492	Sprocket 10T
25	40497	Bevel Gear 42T
26*	40502	Shim Kit
27	40507	Retaining Ring
28	40512	Sprocket 14T
29	40517	Spacer
30	40522	Spur Gear 35T
31	40527	Spur Gear 30T
32	40532	Spur Gear 25T
33	40537	Spur Gear 22T
34	40542	Spur Gear 19T
35	40547	Washer .640 x 1.37 x .061
36	40552	Output Shaft
37	84595	No. 4 Woodruff Key
38	40557	Clutch Key
39	40562	Clutch Collar
40	84585	Chain
41	40567	V-Ring
42	40572	Shifter Assembly
43	40577	Lower Housing
44	40582	Input Shaft Assembly
45	84470	Sprocket
46	84465	Retaining Ring
—	50277	Torque Wrench
—	50282	Socket 1" x $\frac{1}{2}$ " Drive

* Use in various combinations to maintain proper clearances.

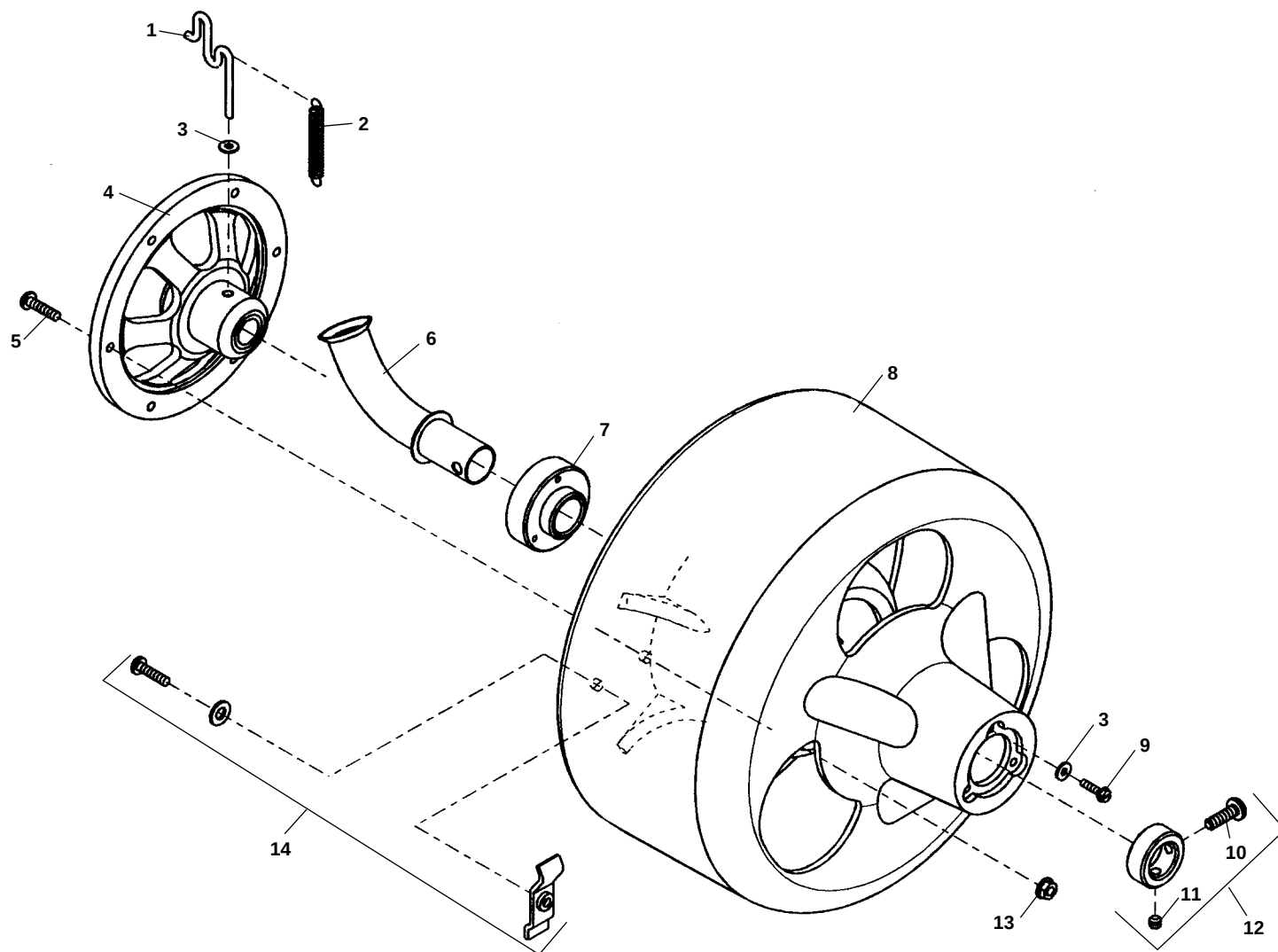
Main Components



NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	37977	Motor Assembly 120V 60Hz	12	37952	Nylon Grommet (4)
	44702	Motor 220/240V 50Hz Export	13	37957	Spring (2)
	44712	Motor 220/240V 50Hz Europe	14	37962	Rubber End Cap (2)
2	33082	Motor Pulley	15	13617	Hex Nut 5/8" - 11
3	39557	Wing Nut (2)	16	46682	Lock Washer 5/8"
4	39767	Belt Guard	17	59230	3/8" Cable Pin Key
5	37872	Drive Belt	18	59225	1/2" Cable Pin Key
6	47077	Drum Axle Washer	19	96730	Hex Nut 5/16" - 18 (4)
7	37937	Drum Axle	20	96740	Flat Washer 5/16" (4)
8	37787	Drum Assembly	21	33087	Motor Mount
9	37942	Frame	22	54562	Tool Holder
10	37947	Spiral Ring (2)	23	61130	Hex Bolt
11	37897	Nylon Washer (2)			

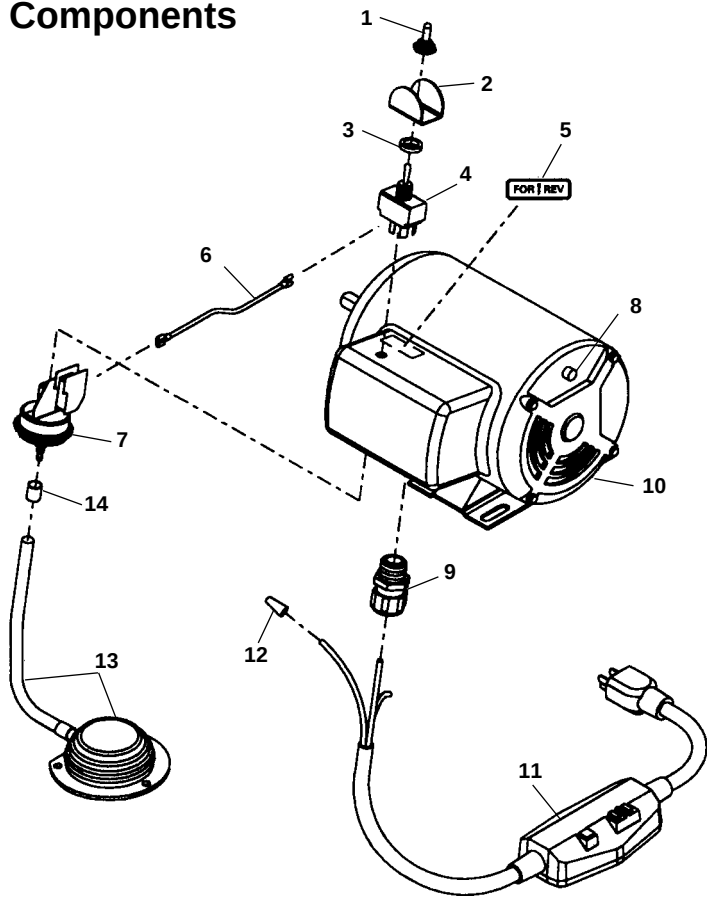
Drum Assembly



**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
—	37787	Drum Assembly	8	37892	Drum
1	44872	Drum Retainer	9	37907	Slotted Hex Screw #10 x 3/4" (3)
2	37882	Retainer Spring	10	39582	Set Screw 5/16" - 18 x 1"
3	45365	#10 Flat Washer (4)	11	46080	Set Screw CP 5/16" - 18 x 1/2"
4	37927	Drum Hub	12	37912	Set Collar Assembly
5	37932	Cinch Stud 1/4" - 20 x 1" (6)	13	47297	Flange Nut 1/4" - 20 (6)
6	37922	Guide Tube	14	50207	Cable Clamp Assembly
7	37917	Sleeve Bushing			

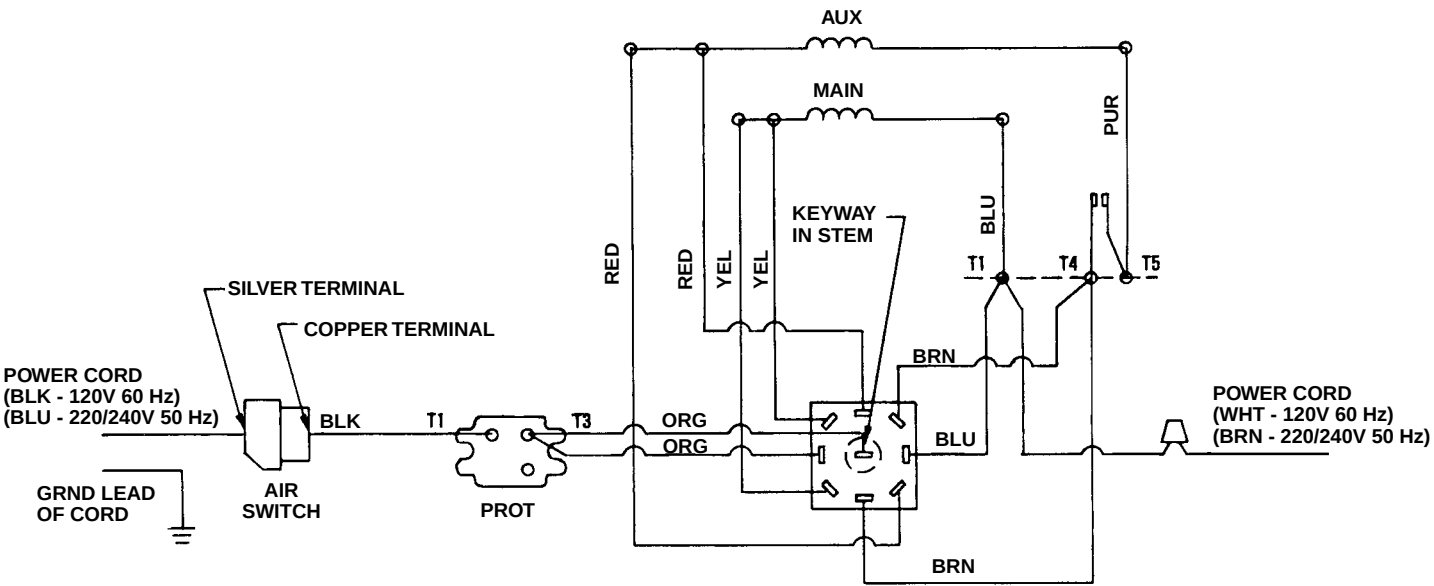
Electrical Components



NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.

Ref. No.	Catalog No.	Description
1	23507	Rubber Boot
2	61490	Switch Guard
3	23512	Rubber Washer
4	41817	Switch
5	23687	FOR/REV Label
6	44877	Lead Wire Assembly
7	32992	Air Switch
8	67412	Thermal Overload
9	96265	Strain Relief
10	37977	120V 60Hz Motor Assembly
	44702	220/240V 50Hz Motor Assy. (Includes Ref. No. 1-9)
11	50507	120V Power Cord w/GFCI
	15707	220V Power Cord
12	44635	Wire Nut
13	37967	Foot Switch Assembly
14	35142	Hose Clamp

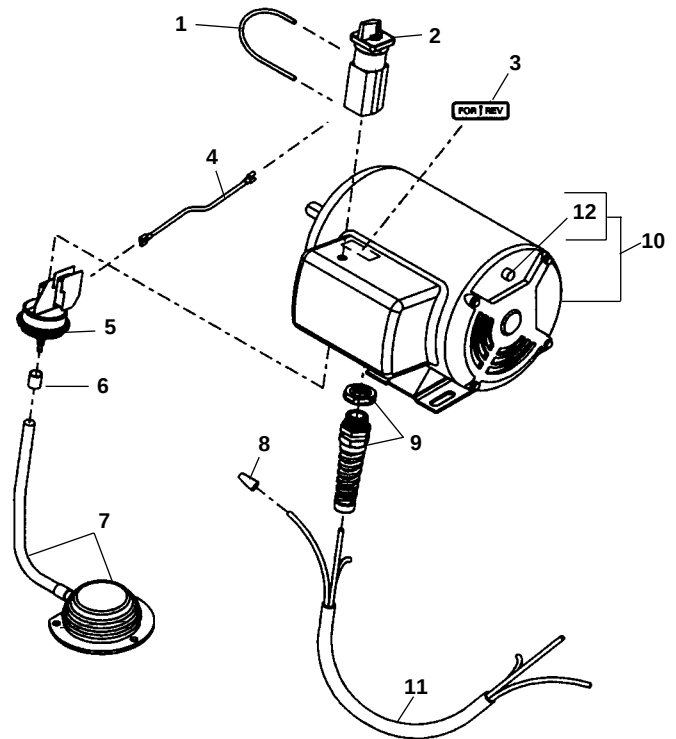
Wiring Diagram



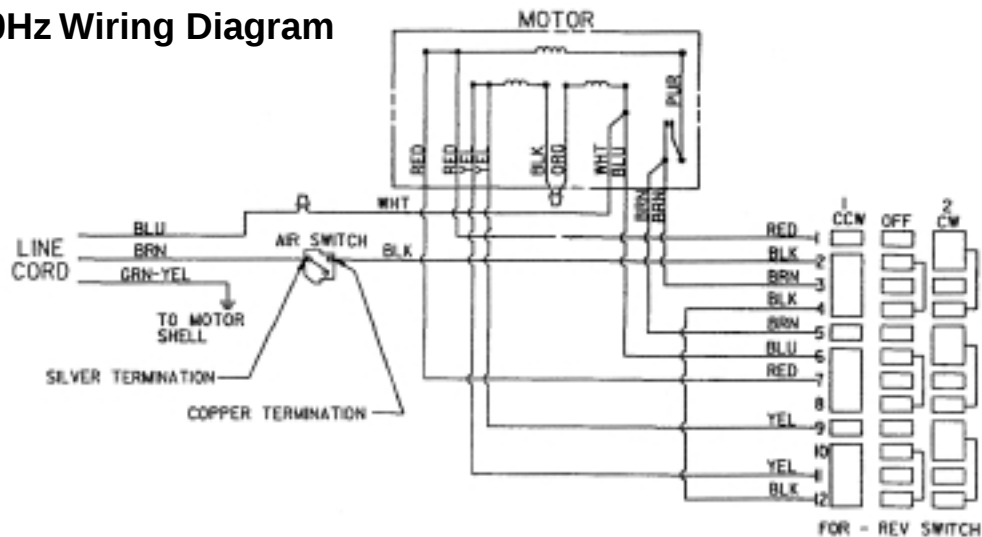
Electrical Components Europe & Australia

NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.

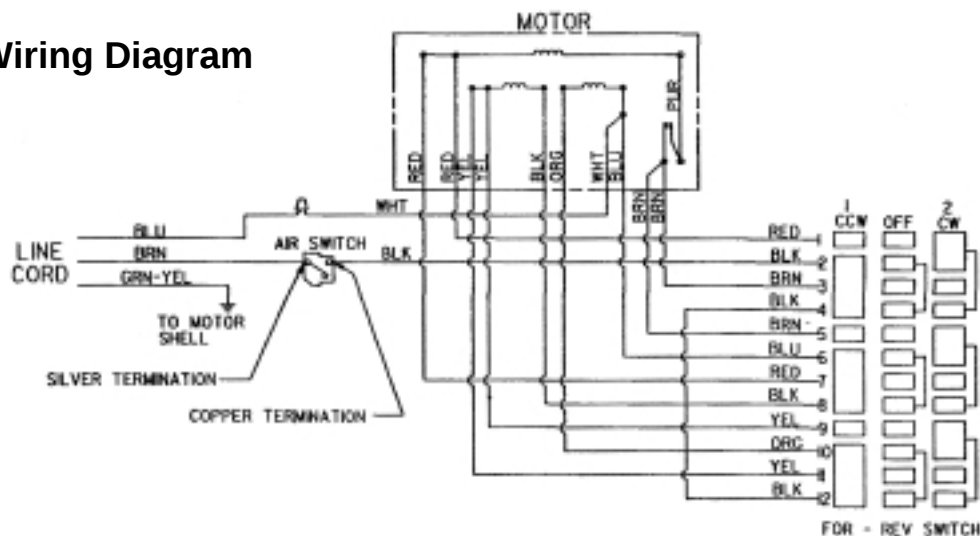
Ref. No.	Catalog No.	Description
1	44882	Jumper Wire Assembly
2	44862	Switch
3	23687	FOR/REV Label
4	44877	Lead Wire Assembly
5	32992	Air Switch
6	35142	Hose Clamp
7	37967	Foot Switch Assembly
8	44635	Wire Nut
9	27187	Strain Relief
10	44712	110/220/240V 50Hz Motor Assy.
11	39562	220V Power Cord (Europe)
	44512	240V Power Cord (Australia)
12	67417	Thermal Overload



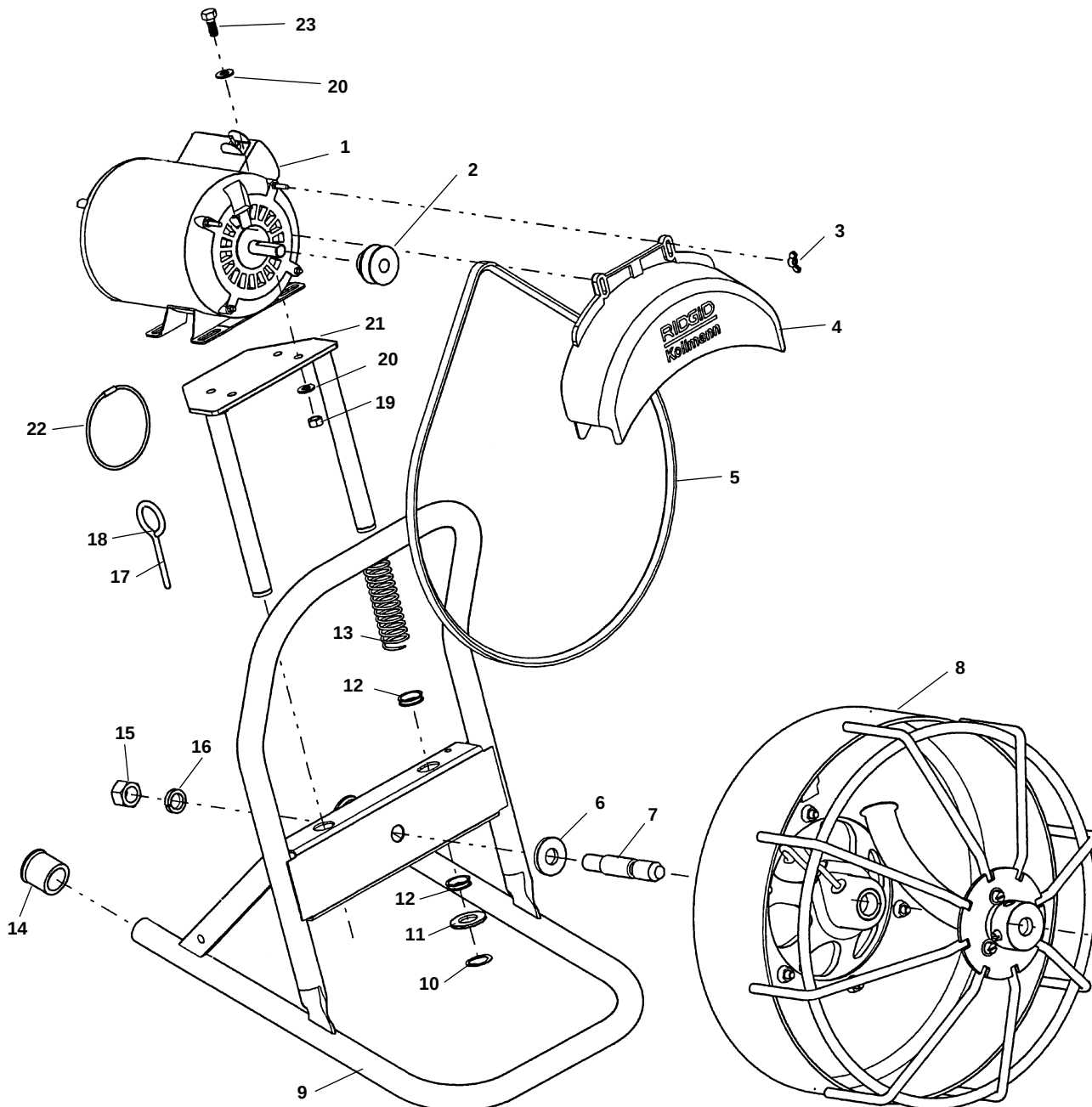
220/240V 50Hz Wiring Diagram



110V 50Hz Wiring Diagram



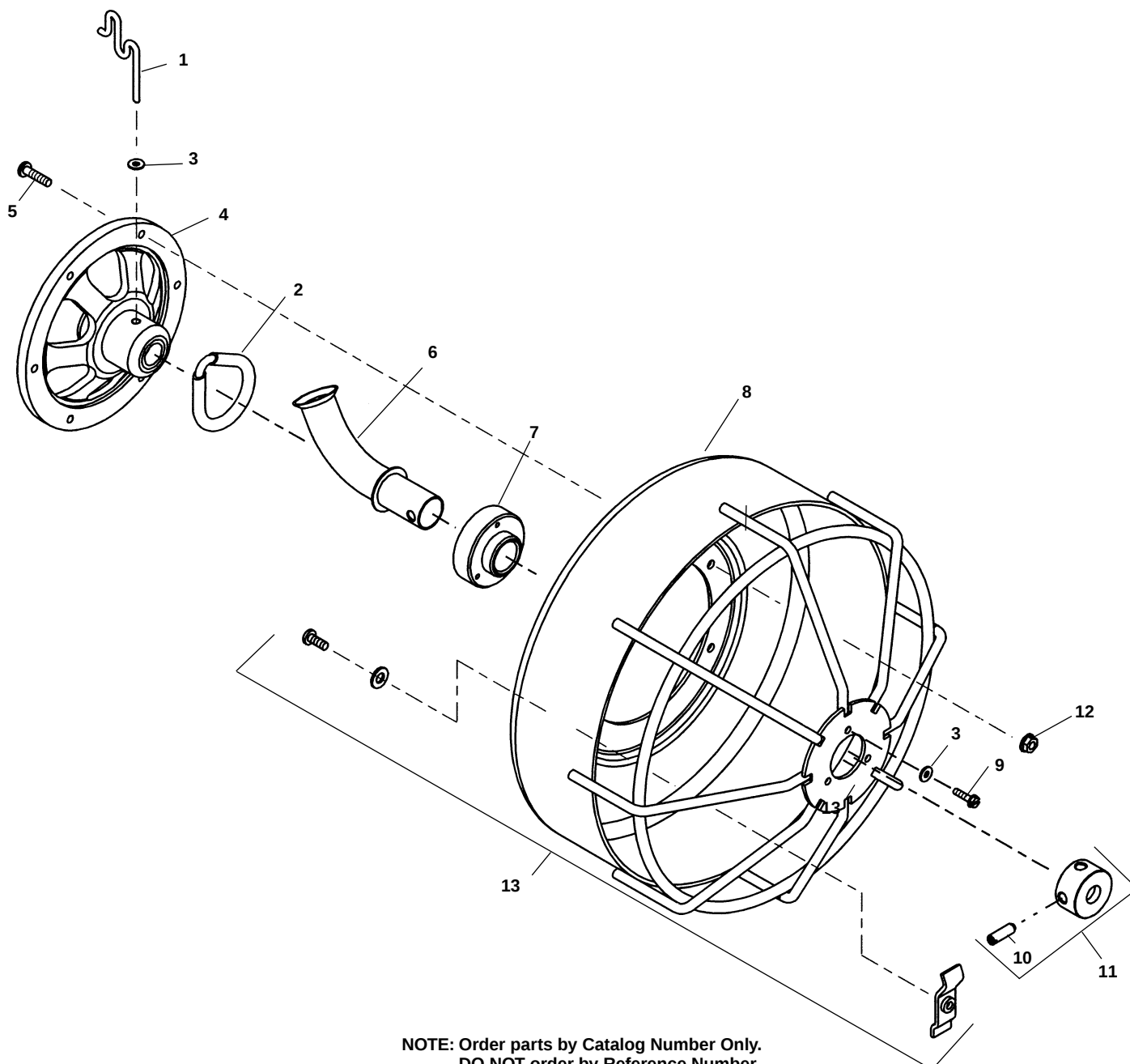
Main Components



**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	37977	Motor Assy 120V 60Hz	13	84512	Spring (2)
2	33082	Motor Pulley	14	37962	Rubber End Cap (2)
3	39557	Wing Nut (2)	15	13617	Hex Nut $\frac{3}{8}$ " - 11
4	39767	Belt Guard	16	46682	Lock Washer $\frac{5}{16}$ "
5	37872	Drive Belt	17	59230	$\frac{3}{8}$ " Cable Pin Key
6	47077	Drum Axle Washer	18	59225	$\frac{1}{2}$ " Cable Pin Key
7	37937	Drum Axle	19	96730	Hex Nut $\frac{5}{16}$ " - 18 (4)
8	84517	Drum Assembly	20	96740	Flat Washer $\frac{5}{16}$ " (4)
9	37942	Frame	21	33087	Motor Mount
10	37947	Spiral Ring (2)	22	54562	Tool Holder
11	37897	Nylon Washer (2)	23	61130	Hex Bolt
12	37952	Nylon Grommet (4)			

Drum Assembly

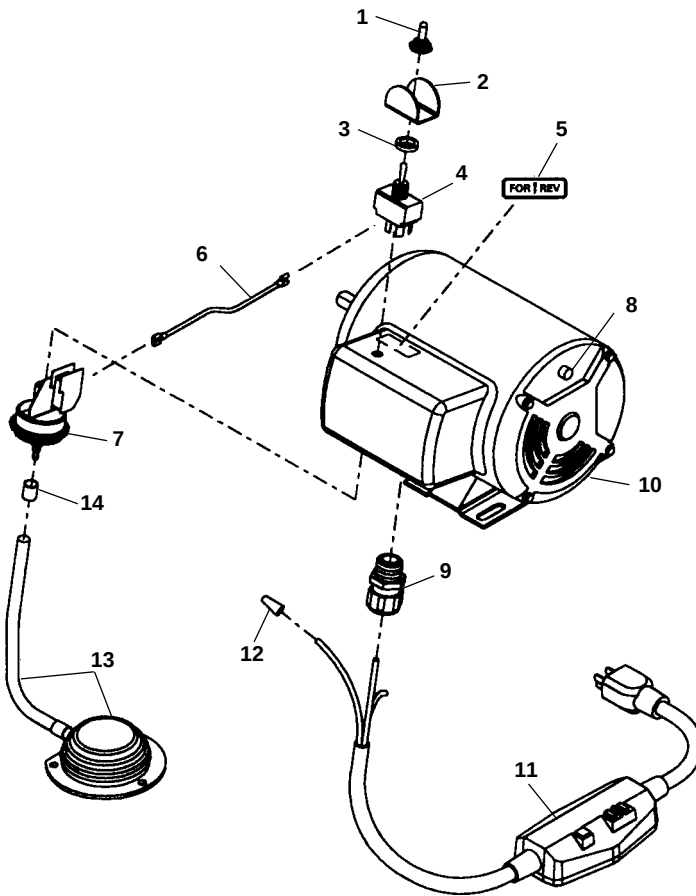


**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description
—	84517	Drum Assembly
1	44872	Drum Retainer
2	37882	Retainer Spring
3	45365	#10 Flat Washer (4)
4	37927	Drum Hub
5	37932	Cinch Stud $\frac{1}{4}$ " - 20 x 1" (6)
6	37922	Guide Tube
7	37917	Sleeve Bushing
8	84527	Drum
9	37907	Slotted Hex Screw #10 x $\frac{3}{4}$ " (3)
10	39582	Set Screw $\frac{3}{16}$ " - 18 x 1"
11	37912	Set Collar Assembly
12	47297	Flange Nut $\frac{1}{4}$ " - 20 (6)
13	50207	Cable Clamp Assembly

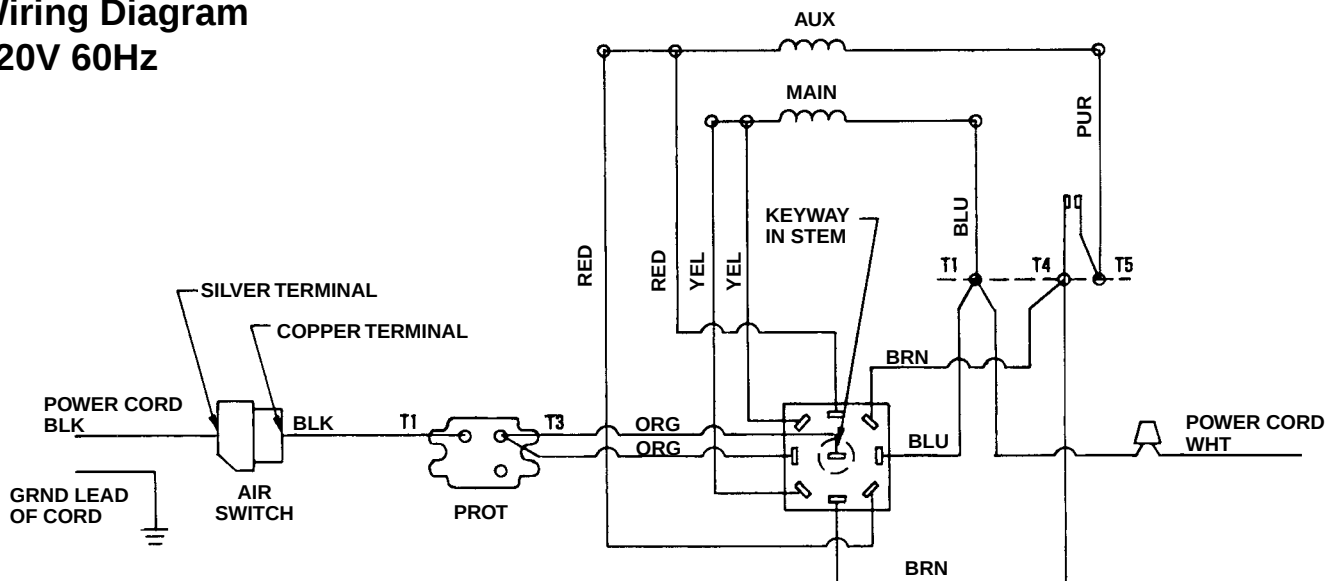
120V 60 Hz Motor

NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.

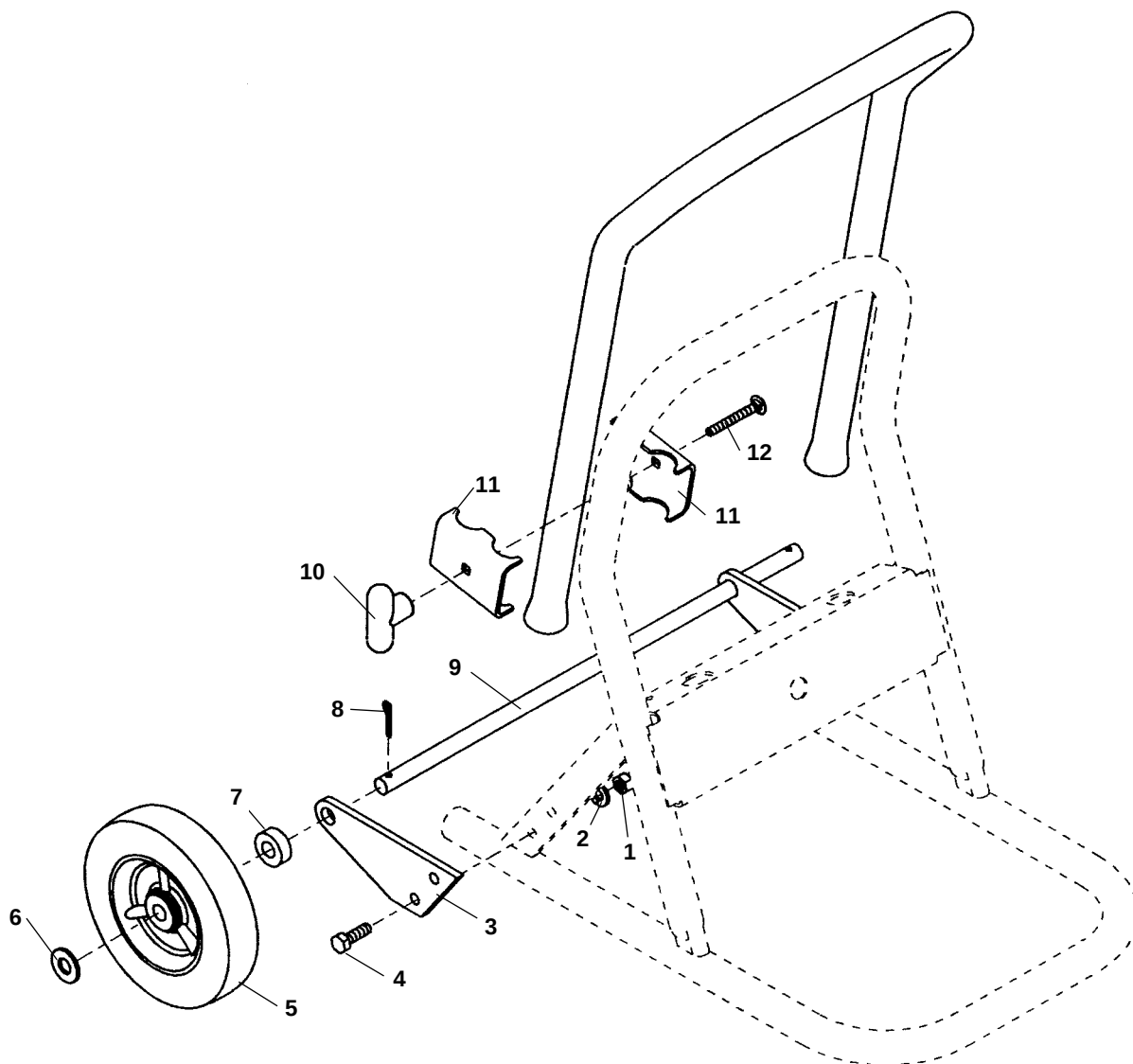


Ref. No.	Catalog No.	Description
1	23507	Rubber Boot
2	61490	Switch Guard
3	23512	Rubber Washer
4	41817	Switch
5	23687	FOR/REV Label
6	44877	Lead Wire Assembly
7	32992	Air Switch
8	67412	Thermal Overload
9	96265	Strain Relief
10	37977	120V 60Hz Motor Assembly (Includes Ref. No. 1 - 9)
	44702	220/240V 50Hz Motor Assy. (Includes Ref. No. 1-9)
11	50507	120V Power Cord w/GFCI
	15707	220V Power Cord
12	44635	Wire Nut
13	37967	Foot Switch Assembly
14	35142	Hose Clamp

Wiring Diagram
120V 60Hz



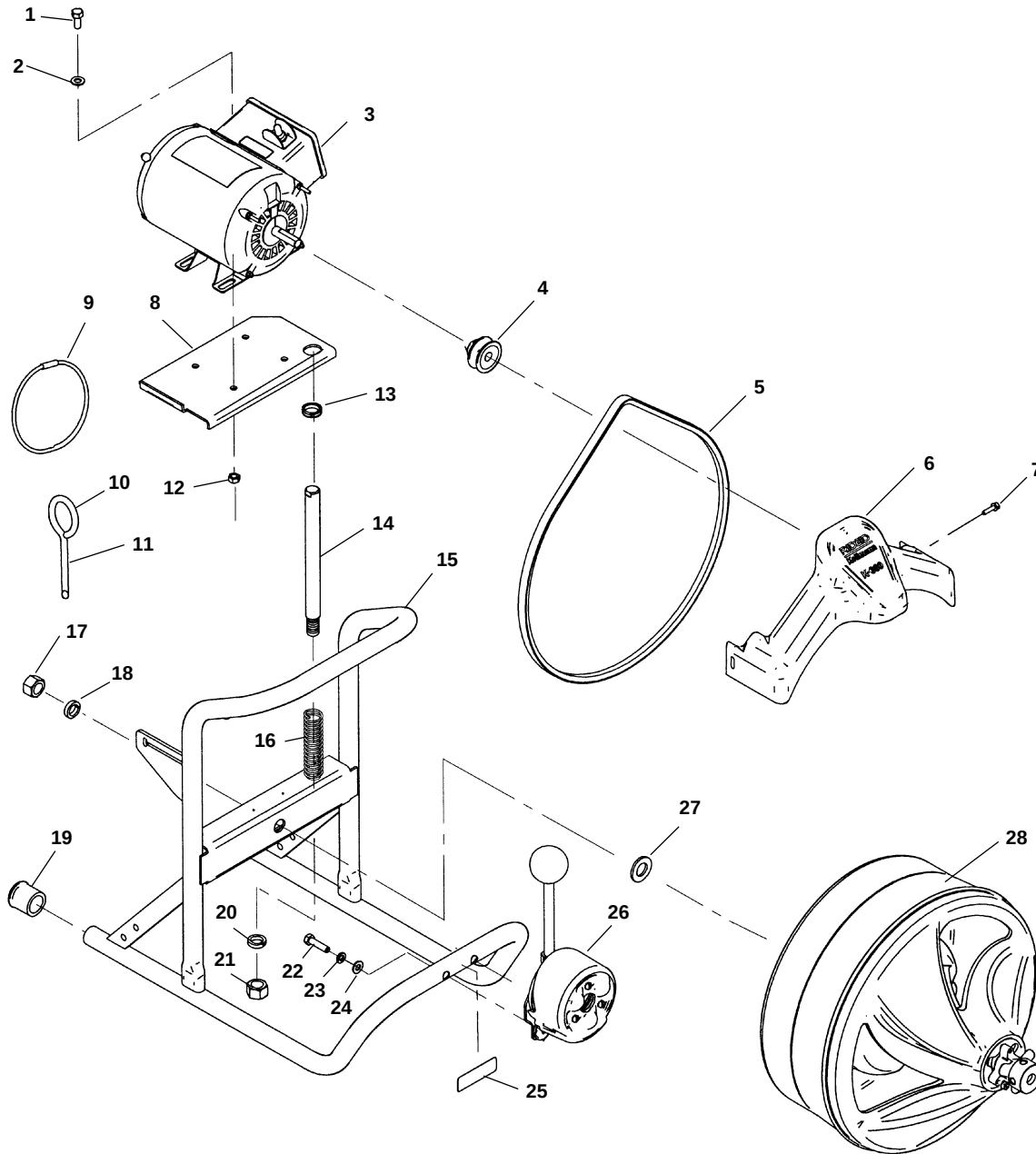
Transportation Cart Assembly



**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description
—	59782	Cart Assembly
1	60230	Hex Nut $\frac{5}{16}$ " (4)
2	60080	Lock Washer $\frac{5}{16}$ " (4)
3	60837	Axle Bracket (2)
4	44590	Screw $\frac{5}{16}$ "-18 x 1" (4)
5	60842	Wheel (2)
6	60847	Flat Washer $\frac{1}{2}$ " (2)
7	60852	Axle Spacer (2)
8	47030	Cotter Pin $\frac{1}{8}$ " x 1" (2)
9	60857	Axle
10	60862	T-Knob (2)
11	60867	Adjustment Bracket (4)
12	60872	Carriage Bolt $\frac{1}{4}$ " - 20 x 2" (2)
13	60877	Handle

Main Components

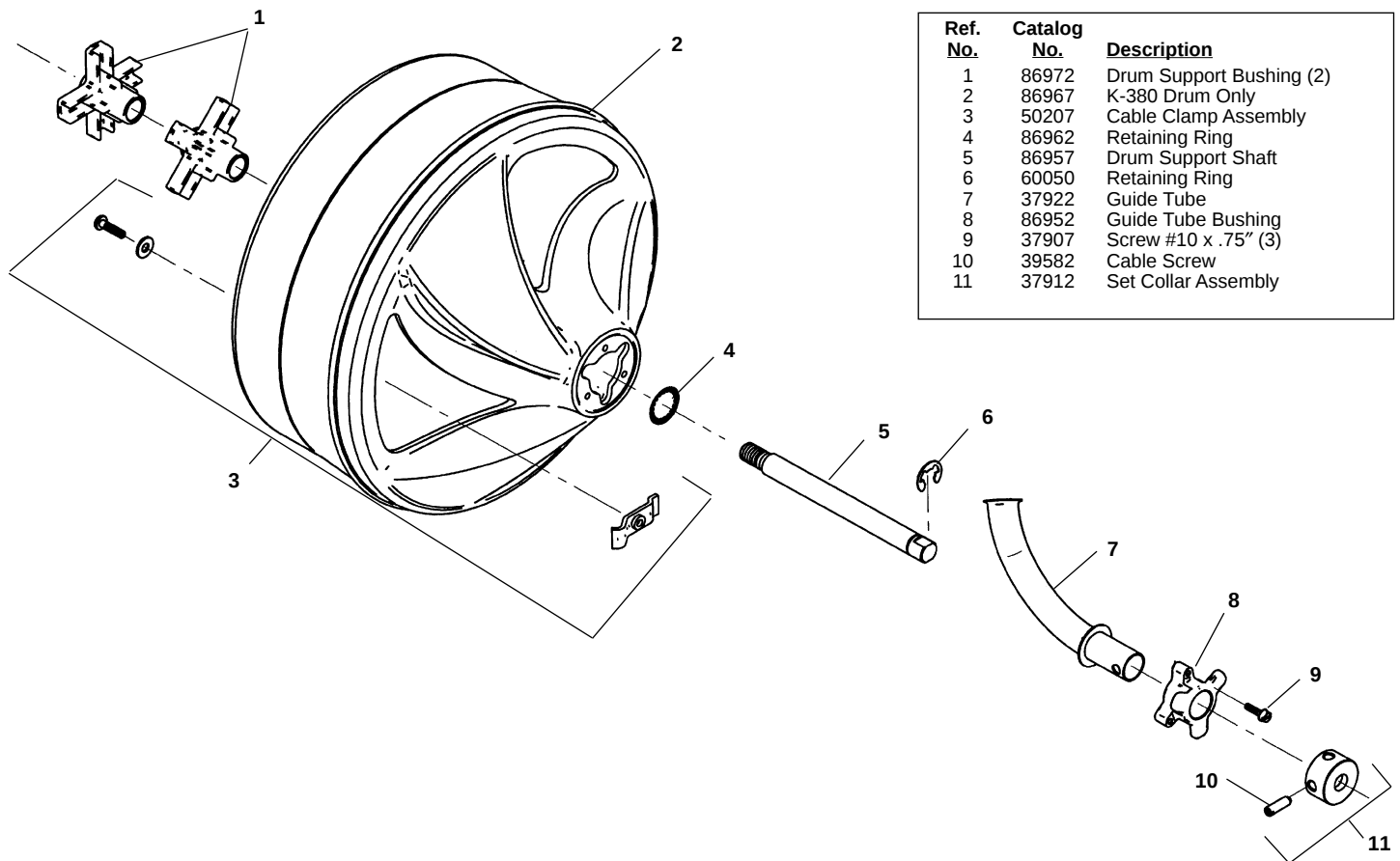


**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	61130	Hex Screw $\frac{5}{16}$ " - 18 (4)	15	87007	K-380 Frame
2	60060	Flat Washer (4)	16	87002	Compression Spring
3	37977	Motor 115V	17	13617	$\frac{5}{8}$ " - 11 Nut
4	86987	Pulley w/Set Screw	18	46682	$\frac{5}{8}$ " Lockwasher
5	86977	Belt	19	37962	Rubber Tip (2)
6	86982	Belt Guard	20	46682	$\frac{5}{8}$ " Lockwasher (2)
7	37907	#10 Screw (5)	21	13617	$\frac{5}{8}$ " - 11 Nut (2)
8	86992	Motor Base Plate	22	60515	Hex Screw .31" - 18 x 1.25" (2)
9	54562	Tool Holder	23	60080	$\frac{11}{32}$ " Lockwasher (2)
10	59230	$\frac{3}{8}$ " Pin Key	24	60060	$\frac{5}{16}$ " Flat Washer (6)
11	59225	$\frac{1}{2}$ " Pin Key	25	87012	K-380 Label
12	27517	Lock Nut (4)	26	87337	K-380 Power Feed Assembly
13	37952	Split Grommet	27	41790	Flat Washer
14	86997	Spring Support Shaft	28	87077	K-380 Drum Assembly

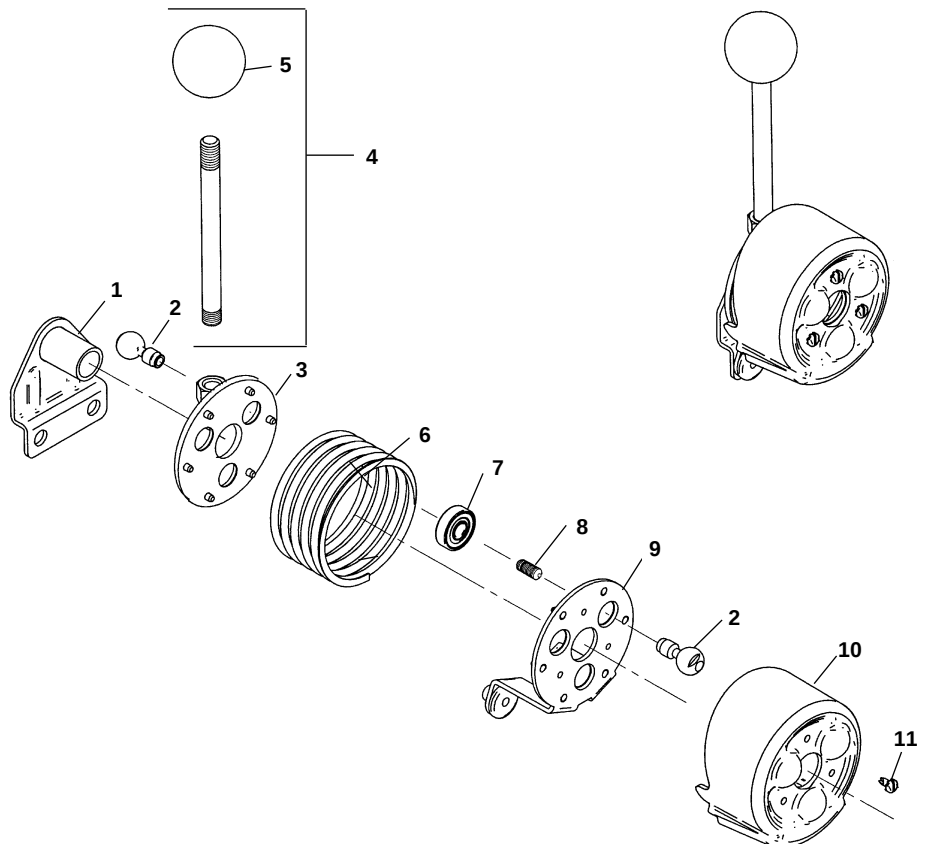
Drum Assembly

**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

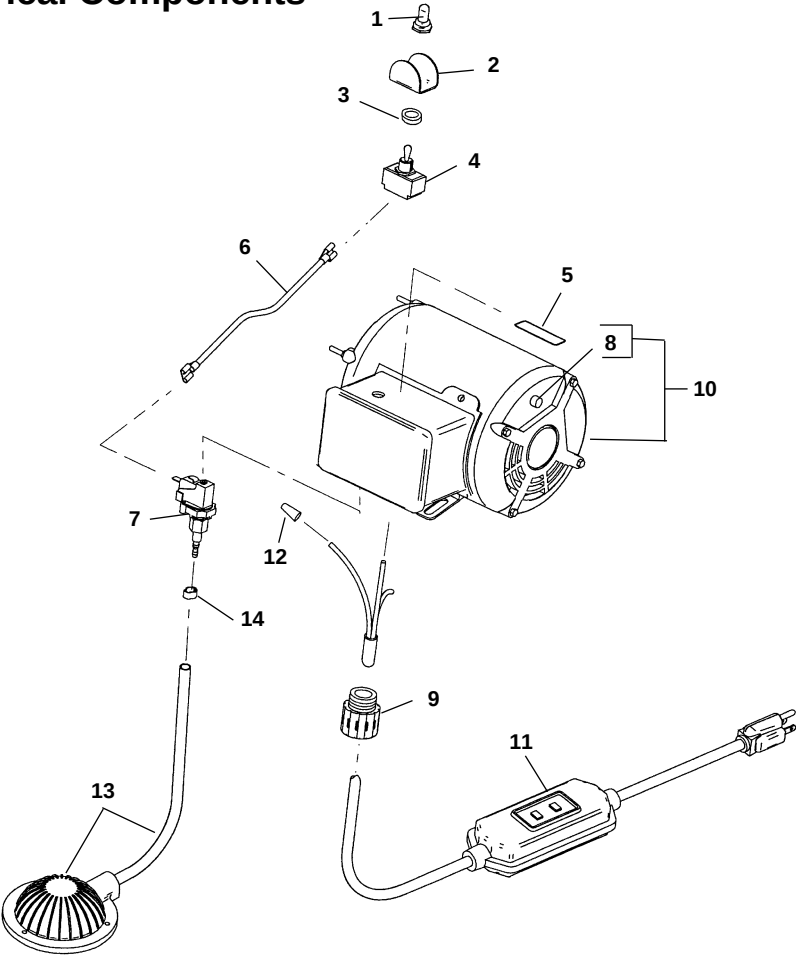


Autofeed Assembly

Ref. No.	Catalog No.	Description
—	87337	Autofeed Assembly
1	87627	Mounting Bracket
2	87607	Roller Shaft (6)
3	87622	Back Plate
4	93630	Clutch Handle
5	59585	Ball for Handle
6	87617	Spring
7	44077	Ball Bearing (3)
8	41502	Set Screw 5/16" - 18 x 3/4" (3)
9	87612	Front Plate
10	87632	Autofeed Cover
11	45420	Screw 10 - 24 x 3/8" (3)



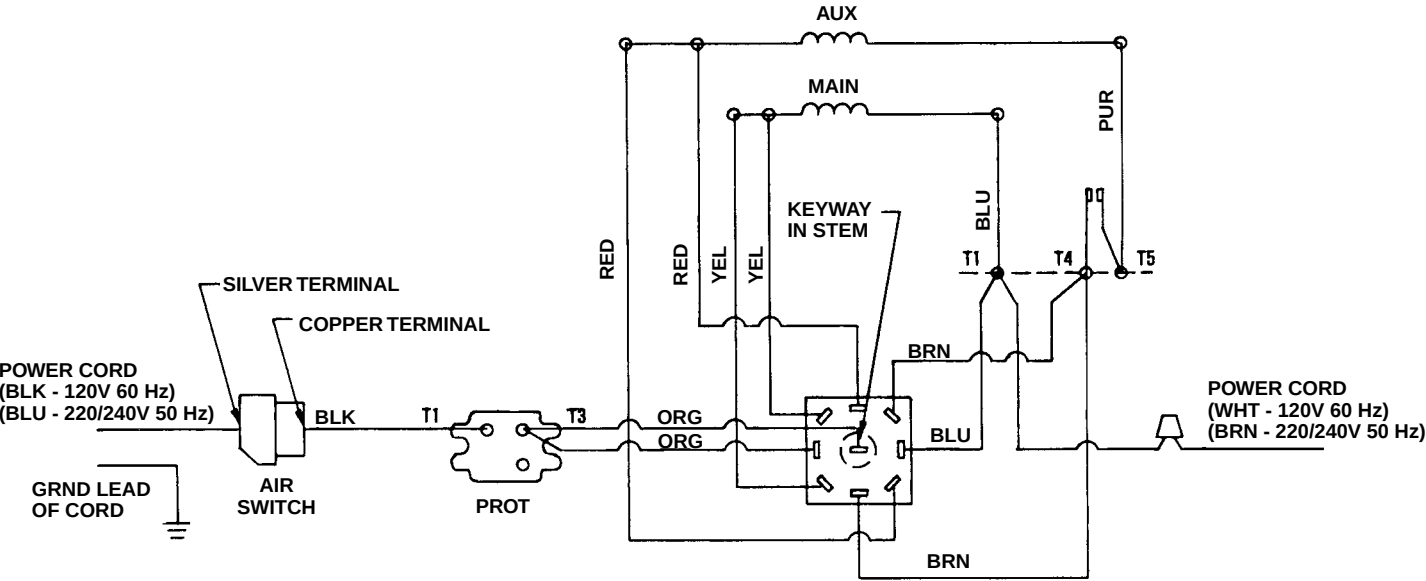
Electrical Components



NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.

Ref. No.	Catalog No.	Description
1	23507	Rubber Boot
2	61490	Switch Guard
3	23512	Rubber Washer
4	41817	Switch
5	23687	FOR/REV Label
6	44877	Lead Wire Assembly
7	32992	Air Switch
8	67412	Thermal Overload
9	96265	Strain Relief
10	37977	120V 60Hz Motor Assembly (Includes Ref. No. 1 - 9)
	44702	220/240V 50Hz Motor Assy. (Includes Ref. No. 1-9)
11	50507	120V Power Cord w/GFCI
	15707	220V Power Cord
12	44635	Wire Nut
13	37967	Foot Switch Assembly
14	35142	Hose Clamp

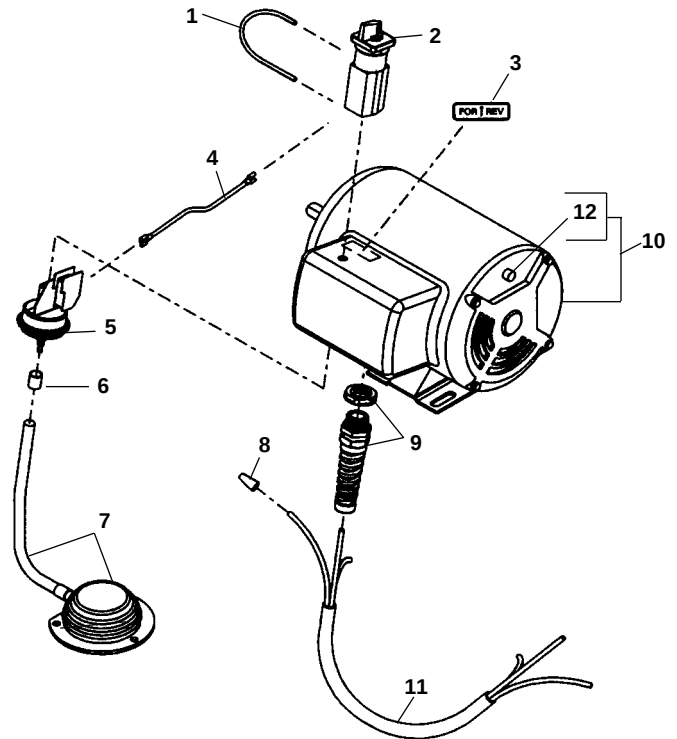
Wiring Diagram



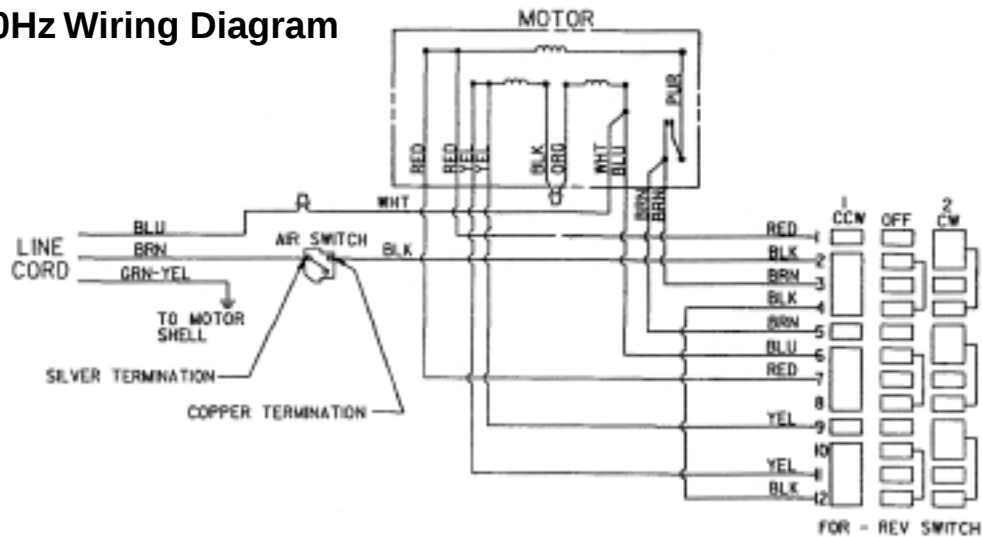
Electrical Components Europe & Australia

NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.

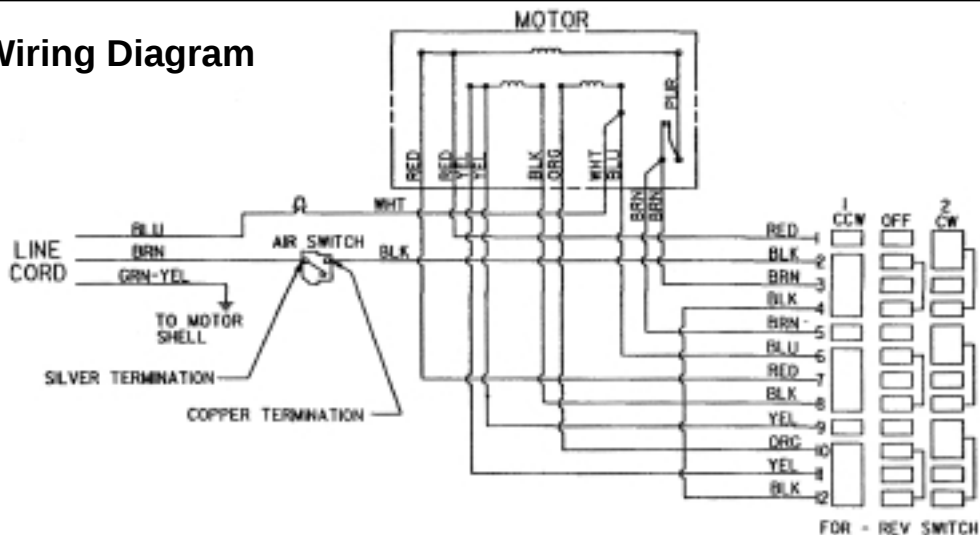
Ref. No.	Catalog No.	Description
1	44882	Jumper Wire Assembly
2	44862	Switch
3	23687	FOR/REV Label
4	44877	Lead Wire Assembly
5	32992	Air Switch
6	35142	Hose Clamp
7	37967	Foot Switch Assembly
8	44635	Wire Nut
9	27187	Strain Relief
10	44712	110/220/240V 50Hz Motor Assy.
11	39562	220V Power Cord (Europe)
	44512	240V Power Cord (Australia)
12	67417	Thermal Overload



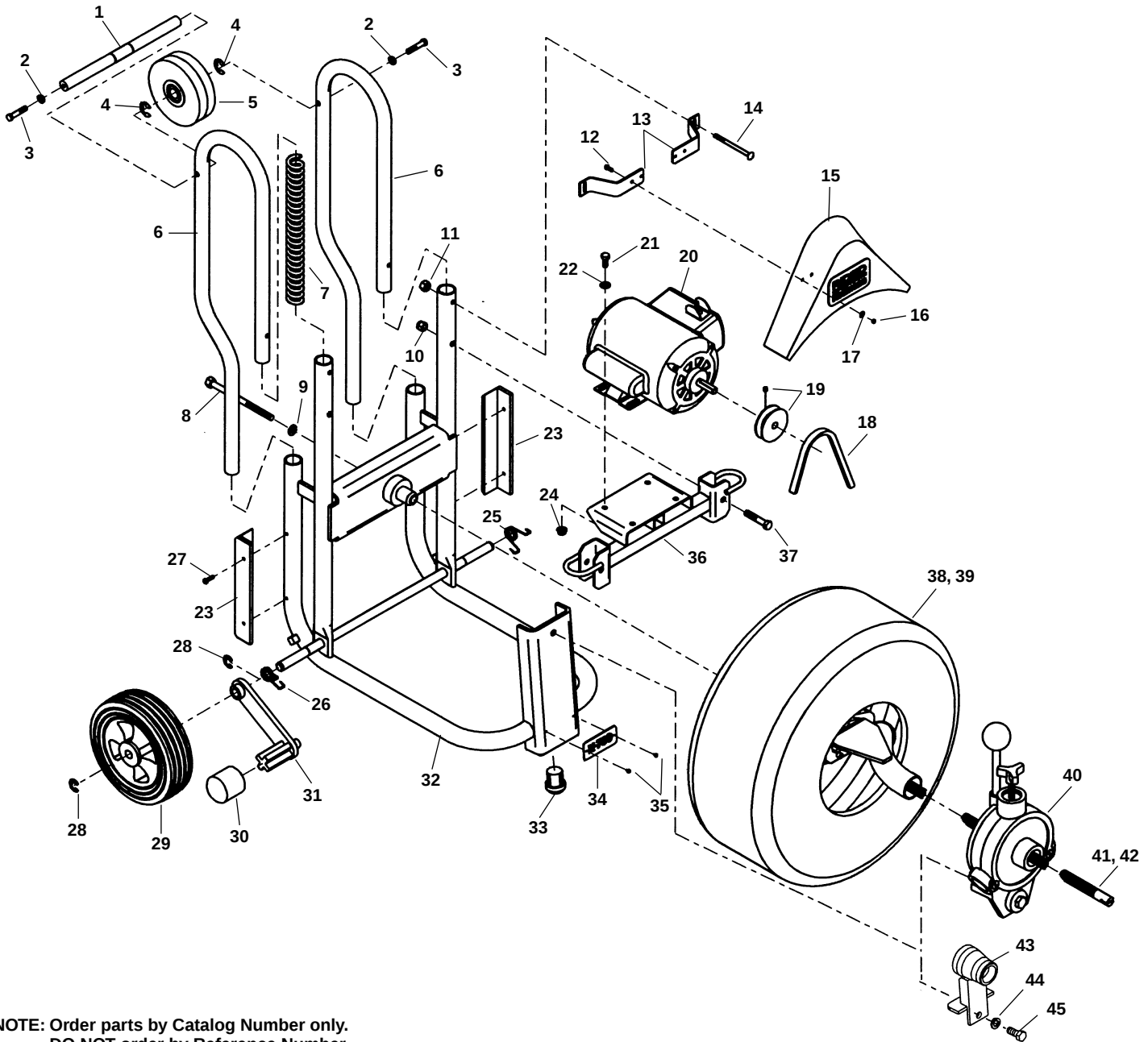
220/240V 50Hz Wiring Diagram



110V 50Hz Wiring Diagram



Frame and Drum Assembly



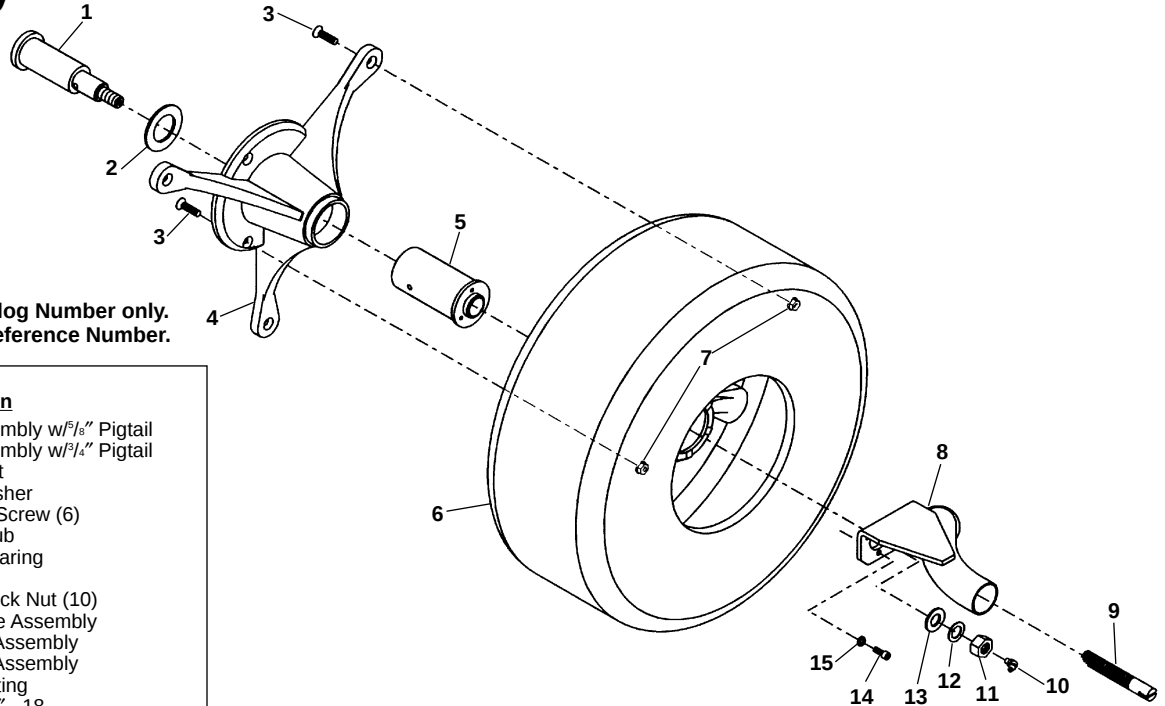
NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	46632	Axle	16	87970	Nut 10-24 (4)	30	23607	End Cap (2)
2	60080	Lock Washer $\frac{5}{16}$ "	17	61310	External Lock Washer (4)	31	43912	Stabilizer (2)
3	43847	Hex Bolt $\frac{5}{16}$ " - 18 x $1\frac{1}{2}$ "	18	43997	Drive Belt	32	43902	Frame Assembly
4	60050	Retaining Ring	19	43982	Motor Pulley	33	61470	Rest Button
5	46637	Loading Wheel	20	43977	120V 60Hz Motor Assembly	34	43907	Name Plate
6	43952	Handle (2)		45052	220/240V 50Hz Motor Assembly	35	76730	Drive Screw (4)
7	43957	Compression Spring		44517	220/240V 50Hz Motor (Europe)	36	43987	Motor Mount Assembly
8	43937	Screw $\frac{1}{2}$ " - 13 x 5" Hex Head (Torque to 60-65 ft. lbs.)		44522	220/240V 50Hz Motor (Australia)	37	43992	Hex Head Screw $\frac{3}{8}$ "-16 x 2"
9	43942	$\frac{1}{2}$ " Lock Washer (2)	21	61130	Screw (4)	38	43637	Drum Assembly w/ $\frac{5}{8}$ " Pigtail
10	43947	Lock Nut	22	60060	$\frac{5}{16}$ " Flat Washer (4)	39	41982	Drum Assembly w/ $\frac{3}{4}$ " Pigtail
11	45407	$\frac{1}{4}$ " - 20 Handle Nut (2)	23	43927	Stair Climber (2)	40	43642	Autofeed Assembly
12	43962	Screw 10 - 24 x $\frac{1}{2}$ " (4)	24	27517	$\frac{5}{16}$ "-18 Lock Nut	41	44117	$\frac{3}{4}$ " Pigtail Assembly
13	43967	Guard Bracket (2)	25	43922	Stabilizer Spring R.H.	42	44122	$\frac{5}{8}$ " Pigtail Assembly
	44502	Guard Bracket (Eur. & Aust.) (2)	26	43917	Stabilizer Spring L.H.	43	54427	Manual Feed Assembly
14	43972	Carriage Bolt (2)	27	43932	Self Tapping Screw (4)	44	43942	$\frac{1}{2}$ " Lock Washer
15	44027	Belt Guard	28	42580	Retaining Clip (4)	45	45287	Hex Head Screw $\frac{1}{2}$ " - 13 x 2"
			29	93325	Wheel (2)			

Drum Assembly

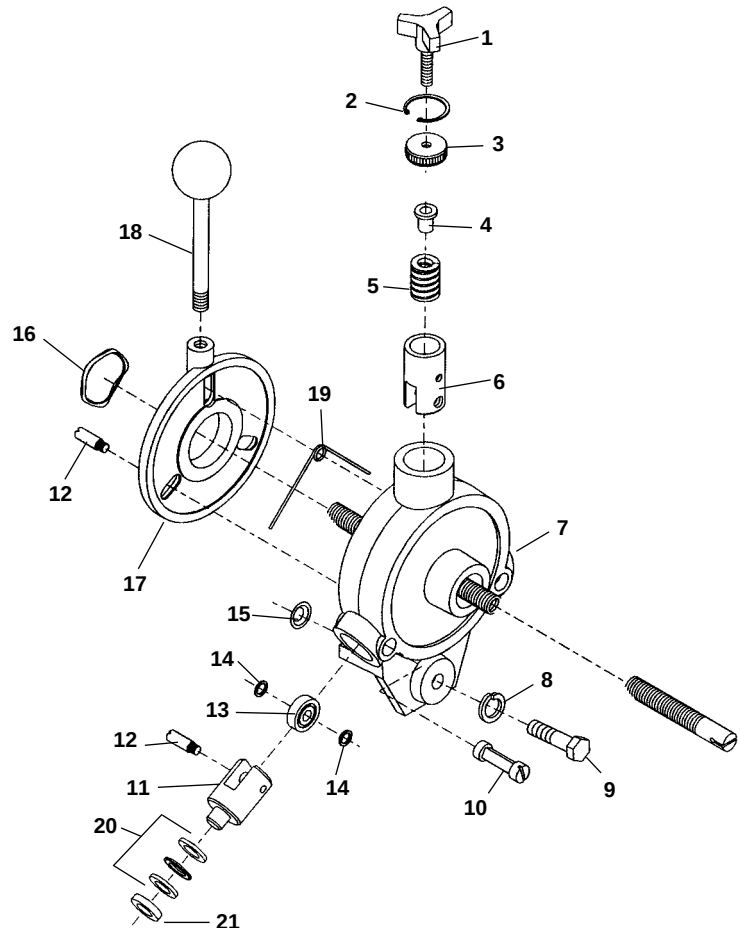
NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.

Ref. No.	Catalog No.	Description
—	43637	Drum Assembly w/ $\frac{5}{16}$ " Pigtail
—	41982	Drum Assembly w/ $\frac{3}{4}$ " Pigtail
1	44002	Drum Shaft
2	44007	Thrust Washer
3	44012	Flat Head Screw (6)
4	44017	Support Hub
5	44022	Spindle Bearing
6	44032	Drum
7	27517	$\frac{5}{16}$ " - 18 Lock Nut (10)
8	44037	Guide Tube Assembly
9	44117	$\frac{3}{4}$ " Pigtail Assembly
	44122	$\frac{5}{16}$ " Pigtail Assembly
10	89815	Grease Fitting
11	44057	Hex Nut $\frac{5}{8}$ " - 18
12	44047	Internal Lock Washer
13	44042	$\frac{5}{16}$ " Flat Washer
14	44052	Screw $\frac{1}{4}$ " - 20 x $\frac{5}{16}$ " S.H. (3)
15	45150	$\frac{1}{4}$ " Lock Washer (3)



Autofeed Assembly

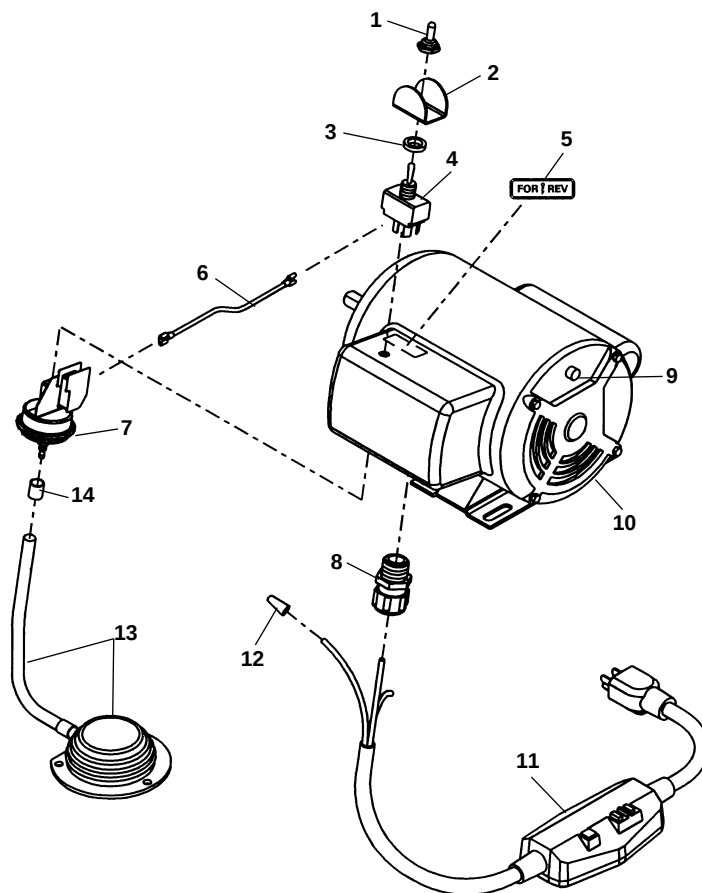
Ref. No.	Catalog No.	Description
—	43642	Autofeed Assembly
1	93580	Feed Knob
2	93500	Retaining Ring
3	93600	Knurled Nut
4	93475	Ball Holder
5	93375	Spring
6	44062	Moveable Roller Holder
7	44067	Autofeed Housing
8	43942	$\frac{1}{2}$ " Lock Washer (2)
9	45287	Screw $\frac{1}{2}$ " - 13 x 2" Hex Head (Torque to 25-30 ft. lbs.)
10	44092	Roller Holder Cam (2)
11	45417	Stationary Roller Hld (2)
12	44082	Actuator Pin (6)
13	44077	Ball Bearing (3)
14	93460	Spacer (6)
15	44102	Bolt Retainer
16	44112	Retaining Ring
17	44107	Feed Actuator
18	93630	Clutch Handle Assembly
19	44097	Torsion Spring (3)
20	68367	Thrust Washer (4)
21	68372	Spacer (2)



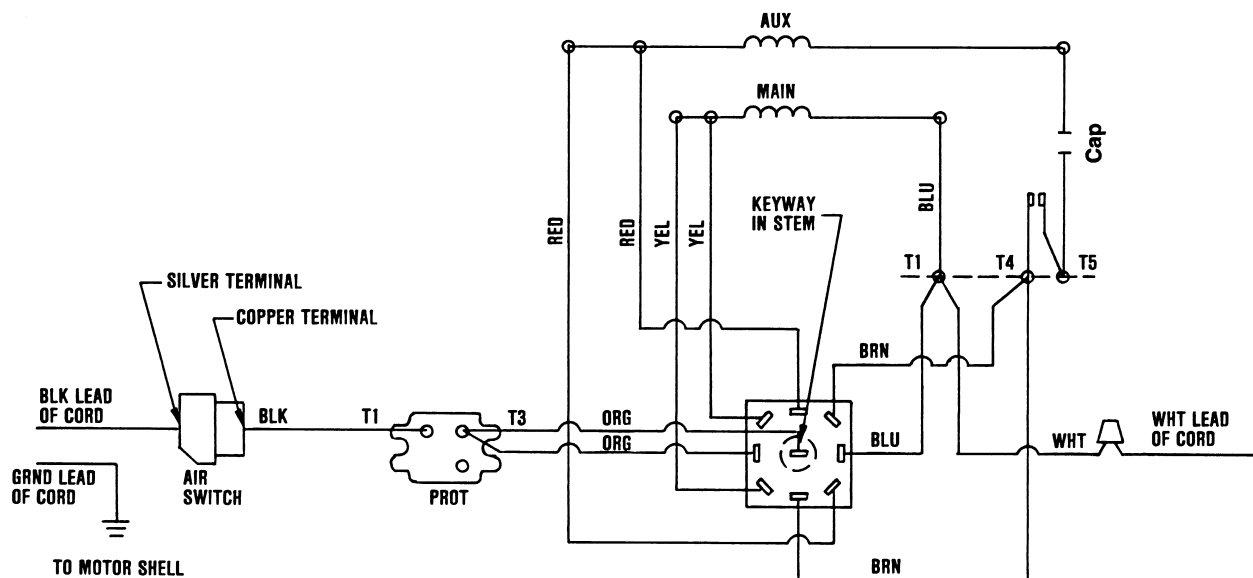
120V 60 Hz Motor

NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.

Ref. No.	Catalog No.	Description
1	23507	Rubber Boot
2	61490	Switch Guard
3	23512	Rubber Washer
4	41817	Switch
5	23687	FOR/REV Label
6	44877	Lead Wire Assembly
7	32992	Air Switch
8	96265	Strain Relief
9	67422	Thermal Protector
10	70447	120V 60Hz Motor Assembly (Includes Ref. No. 1 - 9)
11	50507	120V Power Cord w/GFCI
12	44635	Wire Nut
13	44072	Foot Switch Assembly
14	35142	Hose Clamp



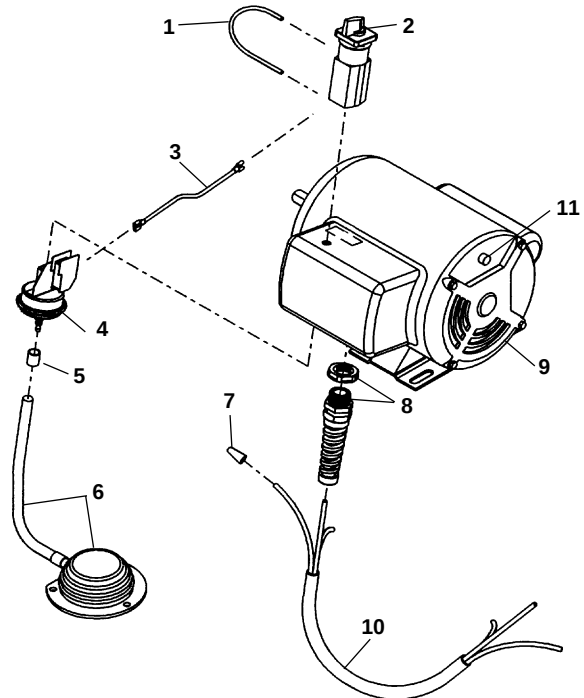
Wiring Diagram 120V 60 Hz Motor



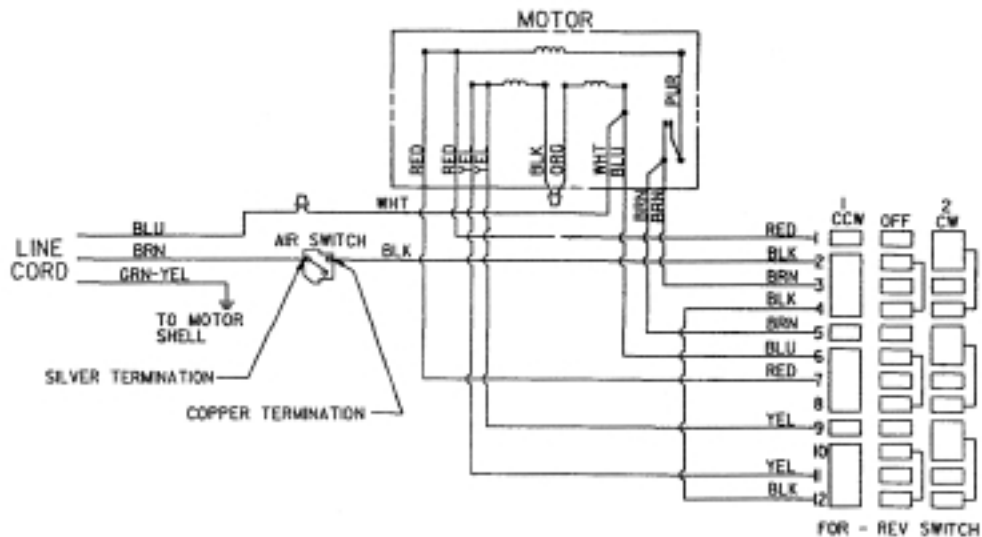
50Hz Motor

NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.

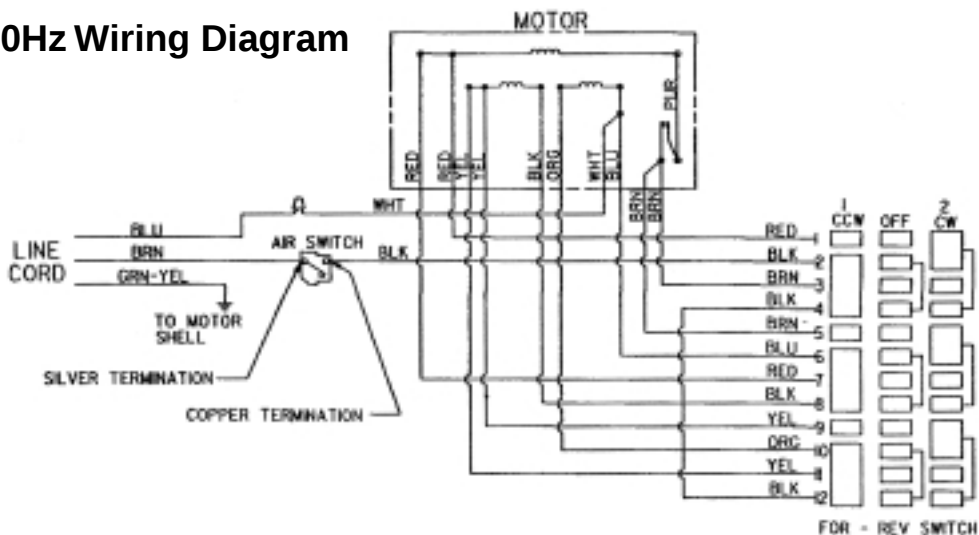
Ref. No.	Catalog No.	Description
1	44882	Jumper Wire Assembly
2	44862	Switch (Australia & Europe)
3	44877	Lead Wire Assembly
4	32992	Air Switch
5	35142	Hose Clamp
6	44072	Foot Switch Assembly
7	44635	Wire Nut
8	27187	Strain Relief
9	45052	220/240V 50Hz Motor Assembly
	44517	220/240V 50Hz Motor Assy. (Eur.)
	44522	220/230V 50Hz Motor Assy. (Aust.)
10	15707	220V Power Cord
	39562	220V Power Cord (Europe)
	44512	240V Power Cord (Australia)
11	67417	Thermal Protector



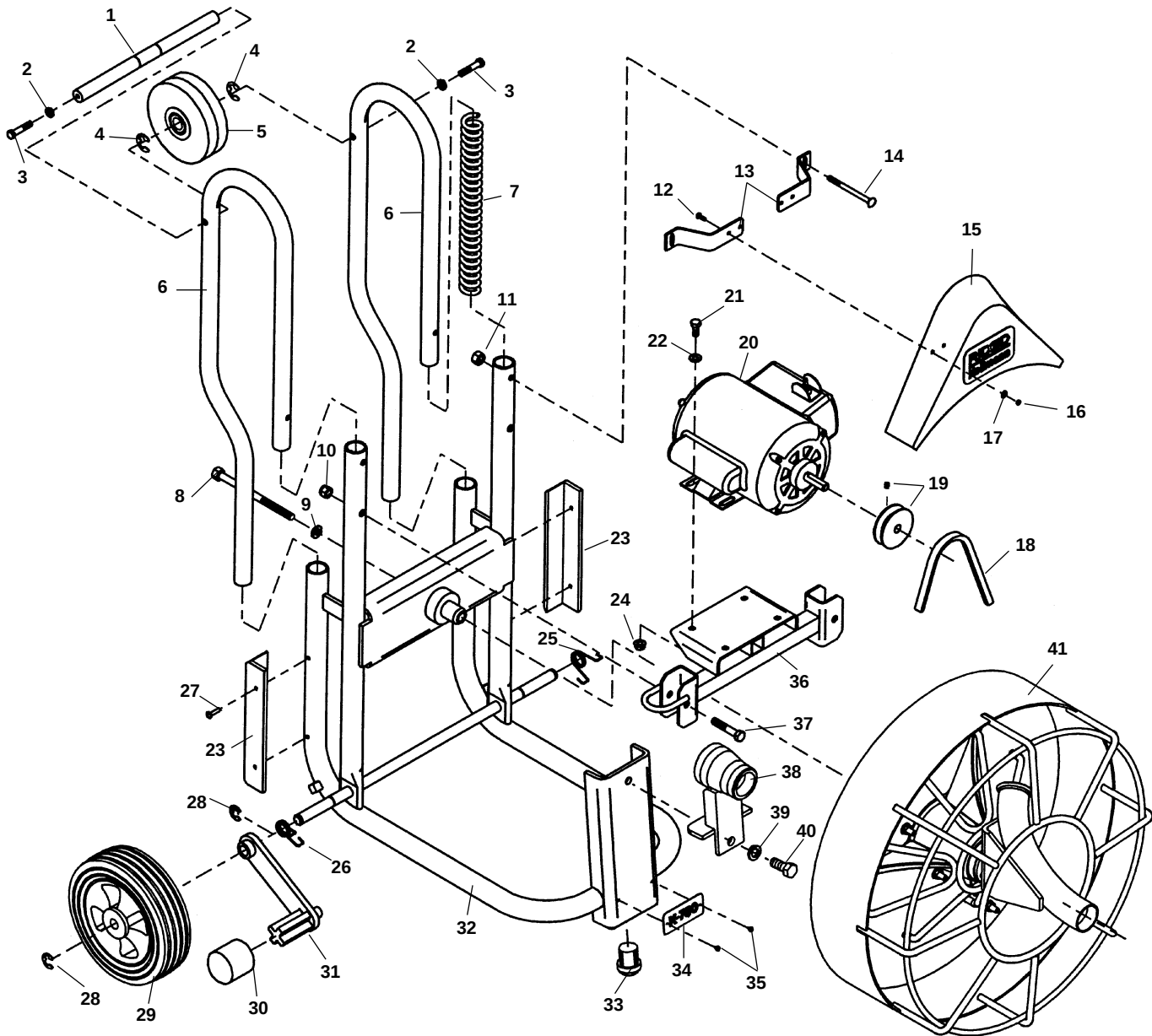
220/240V 50Hz Wiring Diagram



110V 50Hz Wiring Diagram



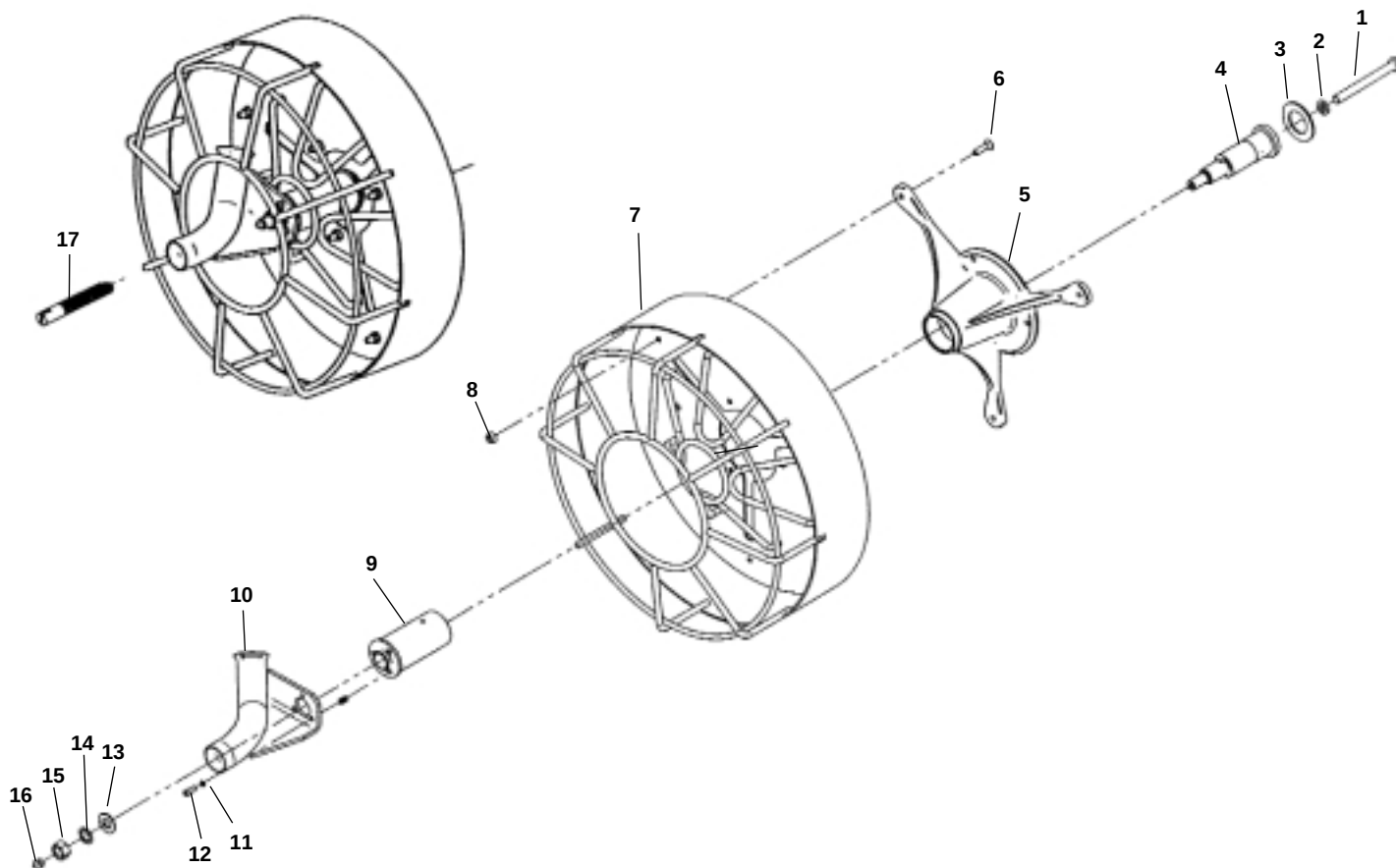
Frame and Drum Assembly



NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	46632	Axle	15	44027	Belt Guard	29	93325	Wheel (2)
2	60080	Lock Washer $\frac{5}{16}$ " (2)	16	87970	Nut 10-24 (2)	30	23607	End Cap (2)
3	43847	Hex Bolt $\frac{5}{16}$ " - 18 x $1\frac{1}{2}$ " (2)	17	61310	External Lock Washer (2)	31	43912	Stabilizer (2)
4	60050	Retaining Ring (2)	18	43997	Drive Belt	32	43902	Frame Assembly
5	46637	Loading Wheel	19	43982	Motor Pulley	33	61470	Rest Button
6	43952	Handle (2)	20	70447	120V 60Hz Motor Assembly	34	43907	Name Plate
7	84127	Compression Spring	21	61130	Screw (4)	35	76730	Drive Screw (4)
8	43937	Screw $\frac{1}{2}$ " - 13 x 5"	22	60060	$\frac{5}{16}$ " Flat Washer (4)	36	43987	Motor Mount Assembly
9	43942	$\frac{1}{2}$ " Lock Washer	23	43927	Stair Climber (2)	37	43992	Hex Head Screw $\frac{3}{8}$ "-16 x 2"
10	43947	Lock Nut	24	27517	$\frac{5}{16}$ "-18 Lock Nut (4)	38	54427	Manual Feed Assembly
11	45407	$\frac{1}{4}$ " - 20 Handle Nut	25	43922	Stabilizer Spring R.H.	39	43942	$\frac{1}{2}$ " Lock Washer
12	43962	Screw 10 - 24 x $\frac{1}{2}$ " (2)	26	43917	Stabilizer Spring L.H.	40	45287	Hex Head Screw $\frac{1}{2}$ "-13 x 2"
13	43967	Guard Bracket	27	43932	Self Tapping Screw (4)	41	84122	K-750R Drum Assembly
14	43972	Carriage Bolt (2)	28	42580	Retaining Clip (4)			

Drum Assembly



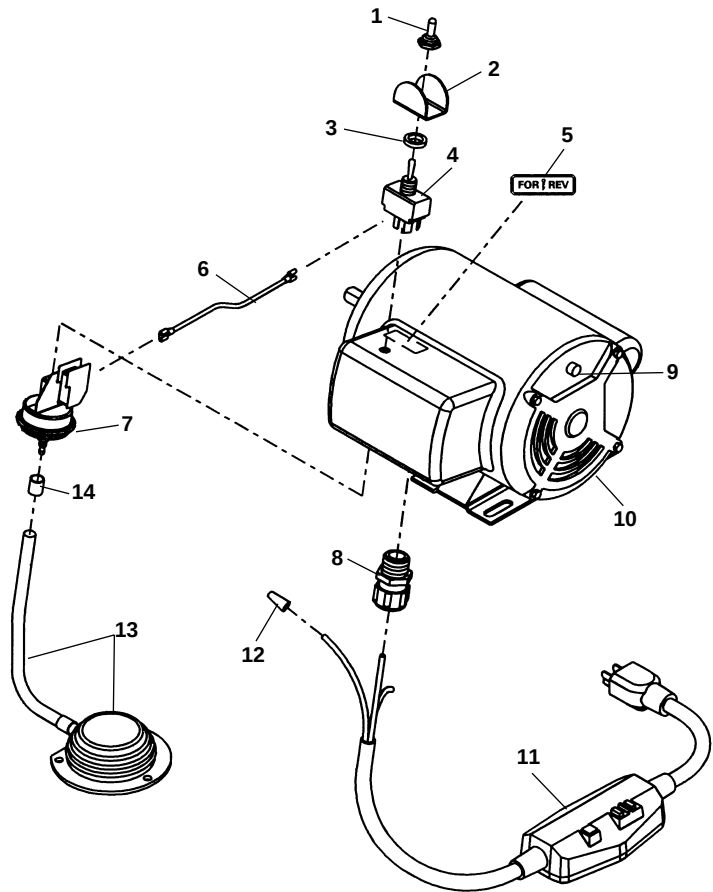
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description
—	84122	Drum Assembly
1	43937	Hex Head Screw $\frac{1}{2}$ " - 13 x 5"
2	43942	$\frac{1}{2}$ " Lock Washer
3	44007	Thrust Washer
4	44002	Drum Shaft
5	44017	Support Hub
6	44012	Hex Screw $\frac{5}{16}$ " - 18 x 1" (3)
7	84422	K-750 Cage Weldment
8	27517	Lock Nut (3)
9	44022	Spindle Bearing
10	44037	Guide Tube Assembly
11	45150	$\frac{1}{4}$ " HiCollar Washer
12	44052	$\frac{1}{4}$ " - 20 Washer
13	44042	$\frac{5}{8}$ " Flat Washer
14	44047	$\frac{5}{8}$ " Internal Lock Washer
15	44057	Hex Nut $\frac{5}{8}$ " - 18
16	89815	Grease Fitting
17	44122	$\frac{5}{8}$ " Pigtail Assembly

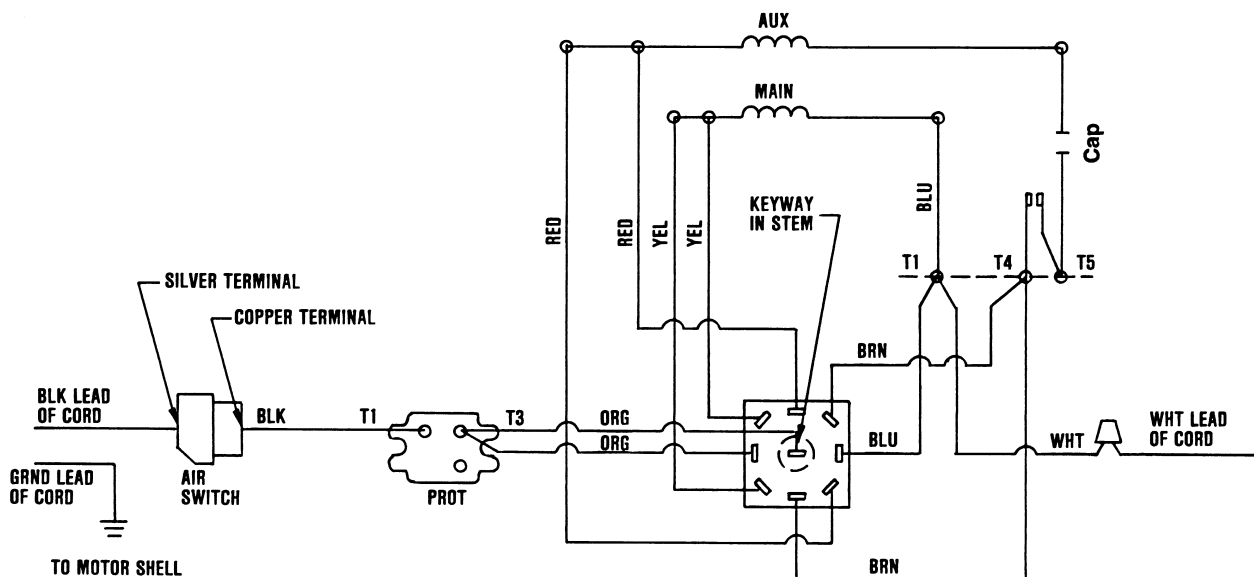
120V 60 Hz Motor

NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.

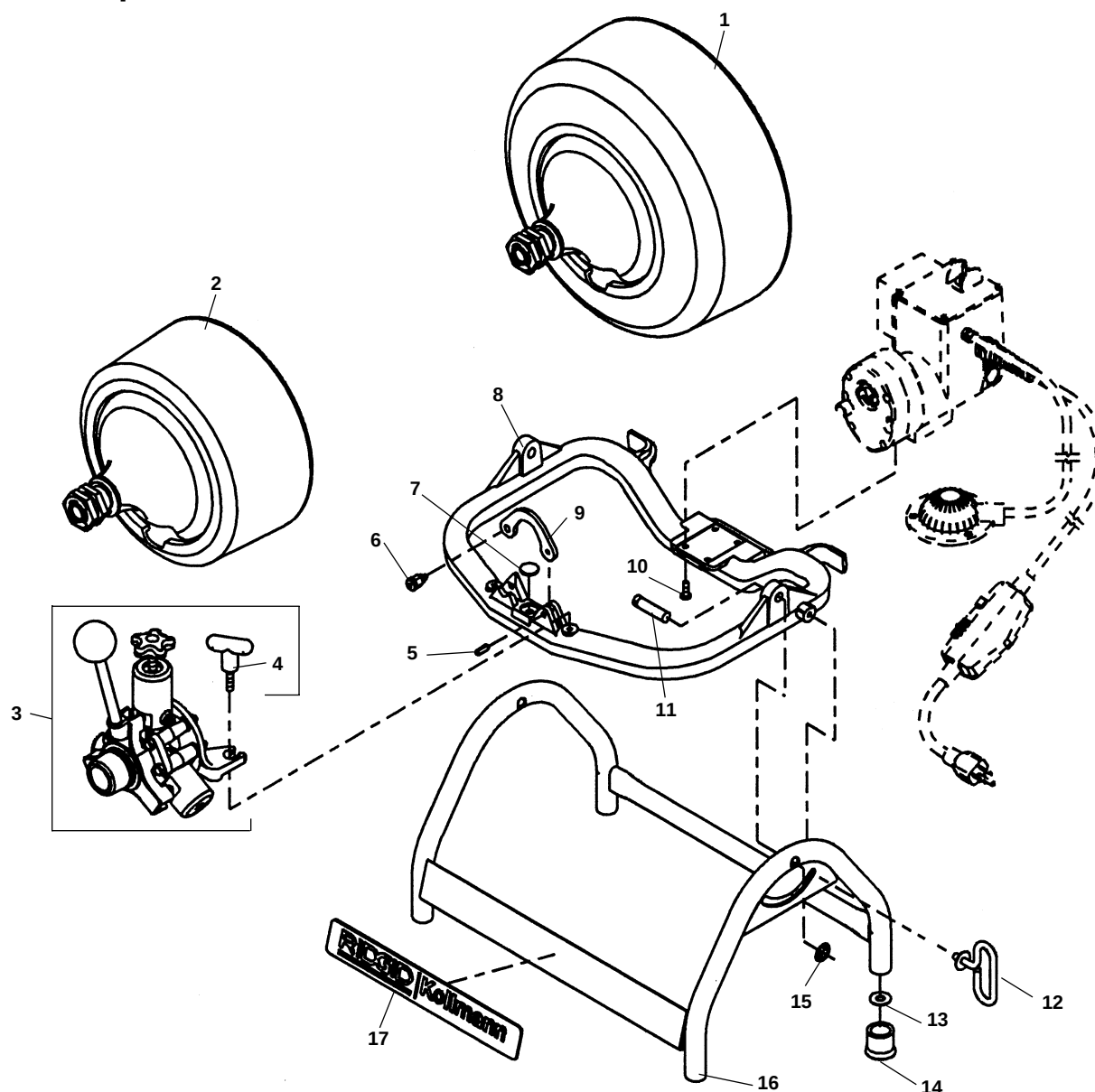
Ref. No.	Catalog No.	Description
1	23507	Rubber Boot
2	61490	Switch Guard
3	23512	Rubber Washer
4	41817	Switch
5	23687	FOR/REV Label
6	44877	Lead Wire Assembly
7	32992	Air Switch
8	96265	Strain Relief
9	67422	Thermal Protector
10	70447	120V 60Hz Motor Assembly (Includes Ref. No. 1 - 9)
11	50507	120V Power Cord w/GFCI
12	44635	Wire Nut
13	44072	Foot Switch Assembly
14	35142	Hose Clamp



Wiring Diagram 120V 60 Hz Motor



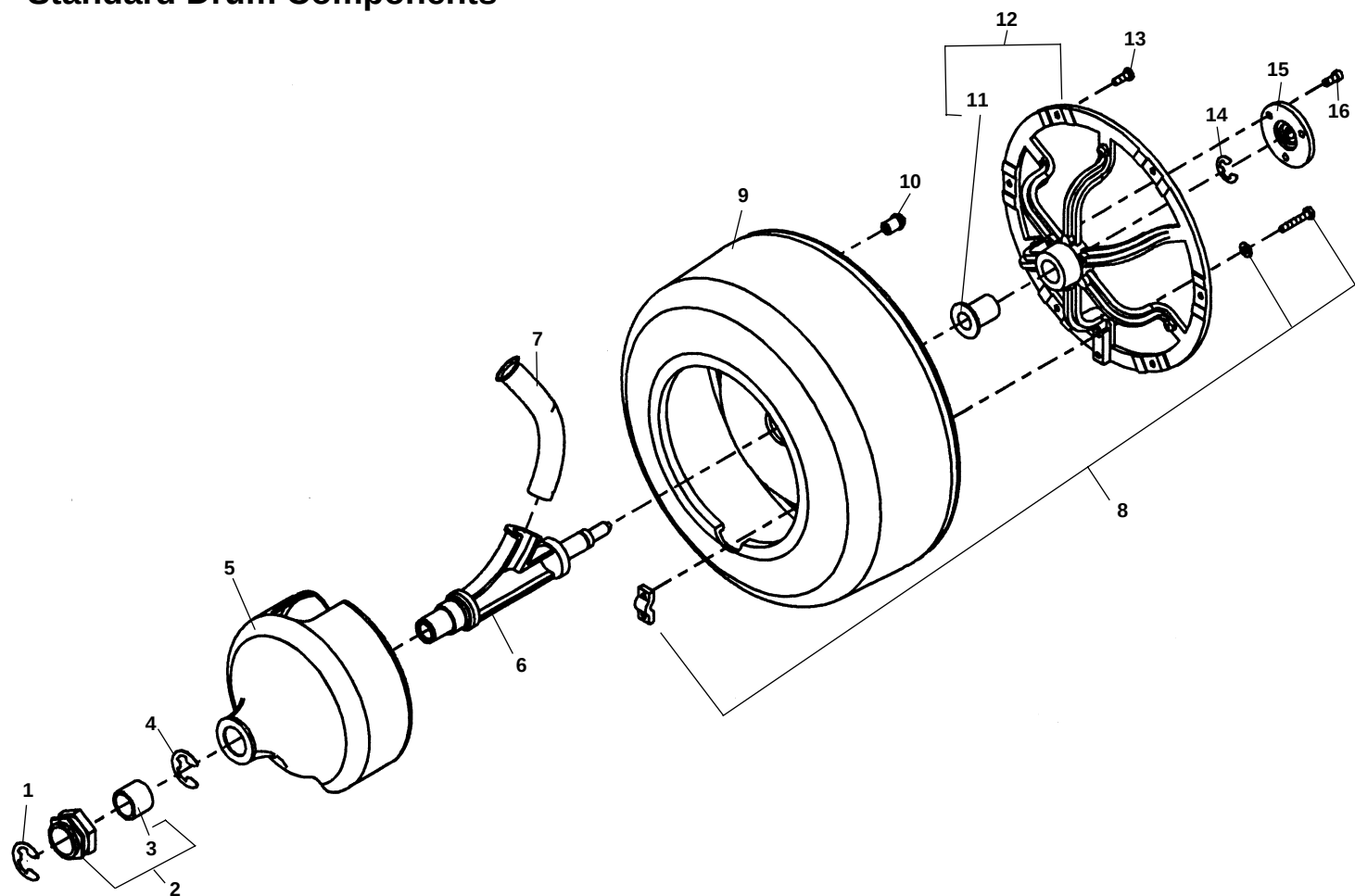
Main Components



**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	55002	Standard Drum Assembly	10	56152	Screw $\frac{1}{4}$ " - 20 x $\frac{3}{4}$ " (4)
2	55007	Sink Drum Assembly	11	56172	Pivot Pin
3	60087	Autofeed Assembly	12	56192	Swivel Locking Handle
4	60672	Retaining Knob (2)	13	44230	Flat Washer $\frac{3}{8}$ "
5	56177	Roll Pin $\frac{1}{4}$ " - $\frac{3}{4}$ "	14	37962	Rubber End Cap (4)
6	59510	Plunger Pin	15	67427	Push Nut (2)
7	34320	Wear Plug	16	56197	Base
8	56182	Yoke	17	56202	Nameplate
9	56187	Bearing Clamp			

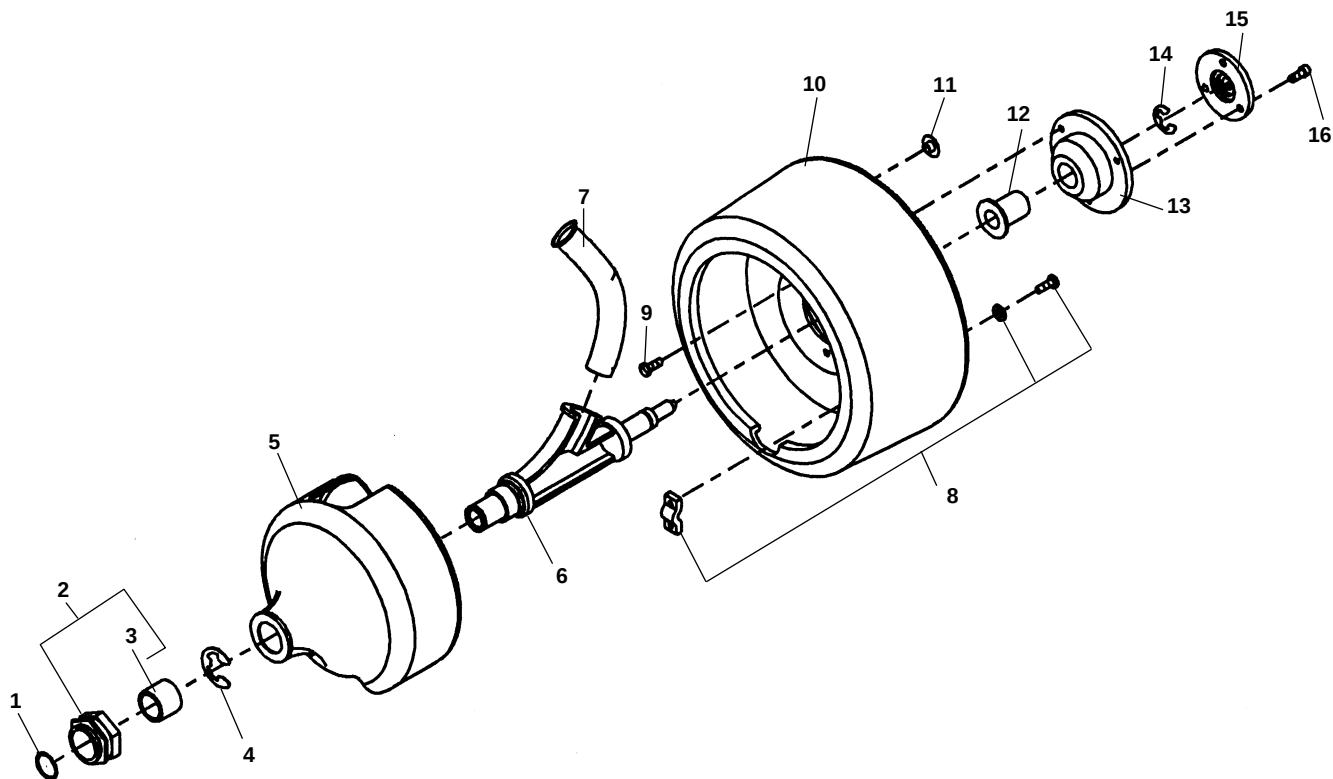
Standard Drum Components



NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
—	55002	Standard Drum Assembly	9	56137	Drum
1	44860	Retaining Ring	10	56142	Drain Plug
2	56107	Bearing Block w/Bearing	11	56157	Flange Bearing
3	56112	Front Bearing	12	56162	Drum Support w/Bearing
4	56117	Retaining Ring	13	56152	Screw 1/4" - 20 x 3/4" (6)
5	56122	Inner Drum	14	60050	Retaining Ring
6	56127	Guide Tube Support	15	56167	Drive Lug
7	56132	Guide Tube	16	39830	Screw 1/4" - 20 x 5/8" (3)
8	56147	Cable Clamp Assembly			

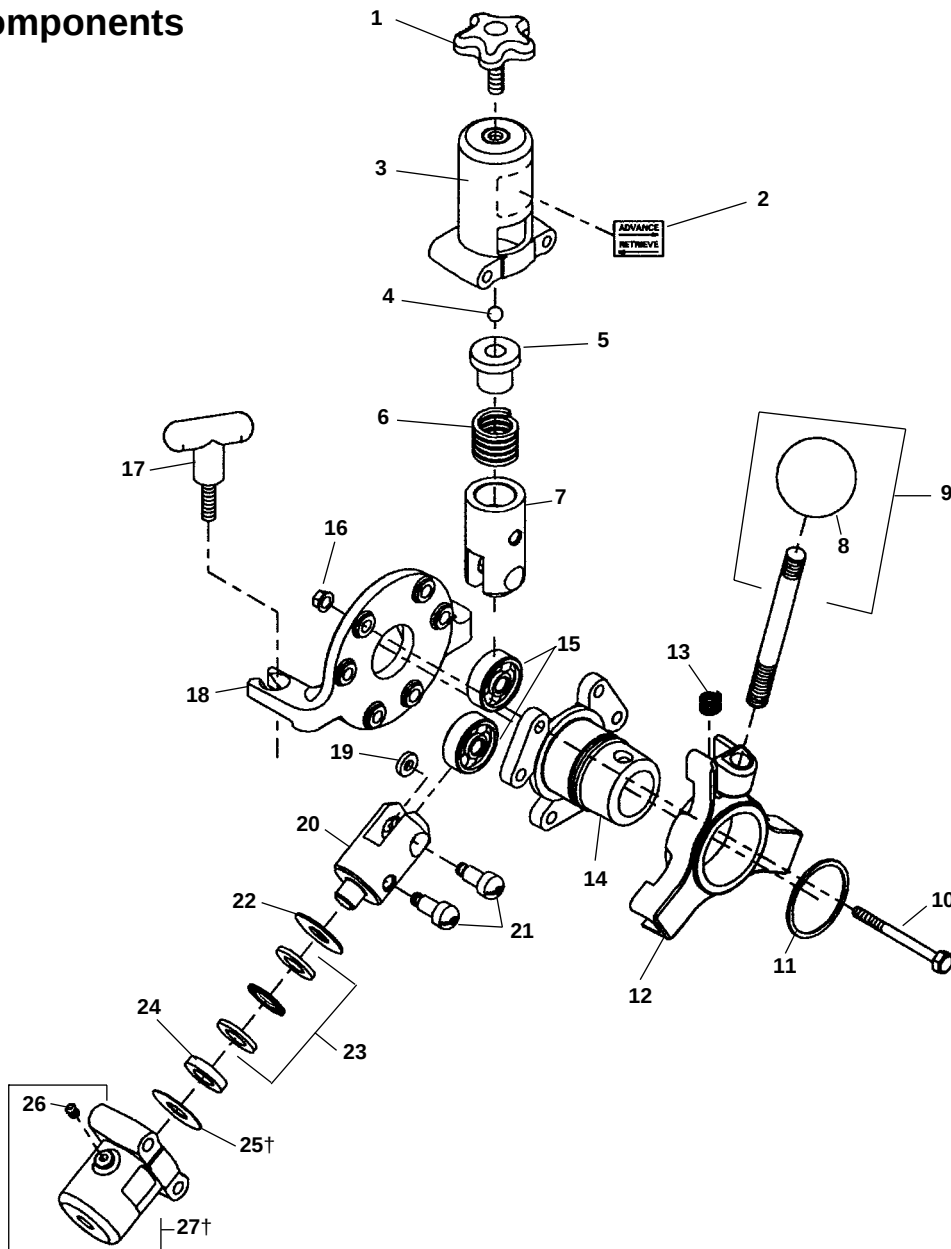
Sink Drum Components



NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
—	55007	Sink Drum Assembly	9	56152	Screw 1/4" - 20 x 3/4" (3)
1	62402	Retaining Ring	10	61212	Sink Drum
2	56107	Bearing Block w/Bearing	11	56142	Drain Plug
3	56112	Front Bearing	12	56157	Flange Bearing
4	56117	Retaining Ring	13	61217	Drum Support
5	56122	Inner Drum	14	60050	Retaining Ring
6	56127	Guide Tube Support	15	56167	Drive Lug
7	56132	Guide Tube	16	39830	Screw 1/4" - 20 x 5/8" (3)
8	56147	Cable Clamp Assembly			

Autofeed Components

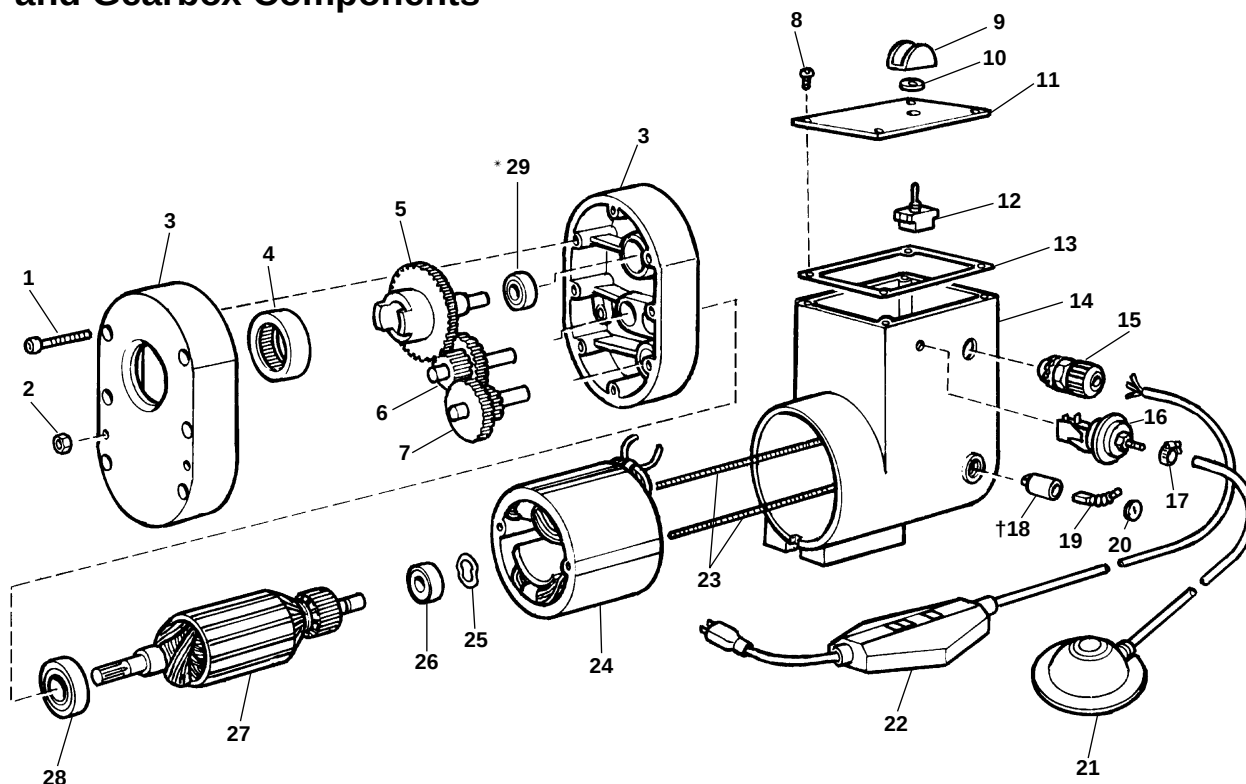


**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
—	60087	Autofeed Assembly	14	60747	Front Support Plate
1	60682	Feed Knob	15	60752	Roller Bearing (3)
2	60762	Advance/Retrieve Label	16	27517	Lock Nut $\frac{5}{16}$ " - 18 (6)
3	60692	Top Roller Housing	17	60672	Handle (2)
4	60702	Ball	18	61222	Back Support Plate
5	93475	Ball Holder	19	60717	Bearing Spacer (3)
6	93375	Spring	20	60722	Stationary Roller Housing (2)
7	60707	Movable Roller Holder	21	60732	Actuator Pin (6)
8	59585	Knob	22	68362	Spacer 0.12" (2)
9	93630	Clutch Handle Assy. w/Knob	23	68367	Thrust Bearing Assembly (2)
10	60737	Bolt $\frac{5}{16}$ " - 18 x 3", Hex Head (6)	24	68372	Spacer 0.235" (2)
11	44112	Retaining Ring	25†	68377	Spacer 0.06" (2)
12	60742	Actuator	26	89810	Grease Fitting (4)
13	60697	Return Spring	27†	60727	Stationary Roller Housing (2)

† Service Note: Remove the 0.06" spacers (Ref. No. 25) from the stationary roller holders (Ref. No. 27) to use the autofeed on $\frac{1}{2}$ " cable.

Motor and Gearbox Components



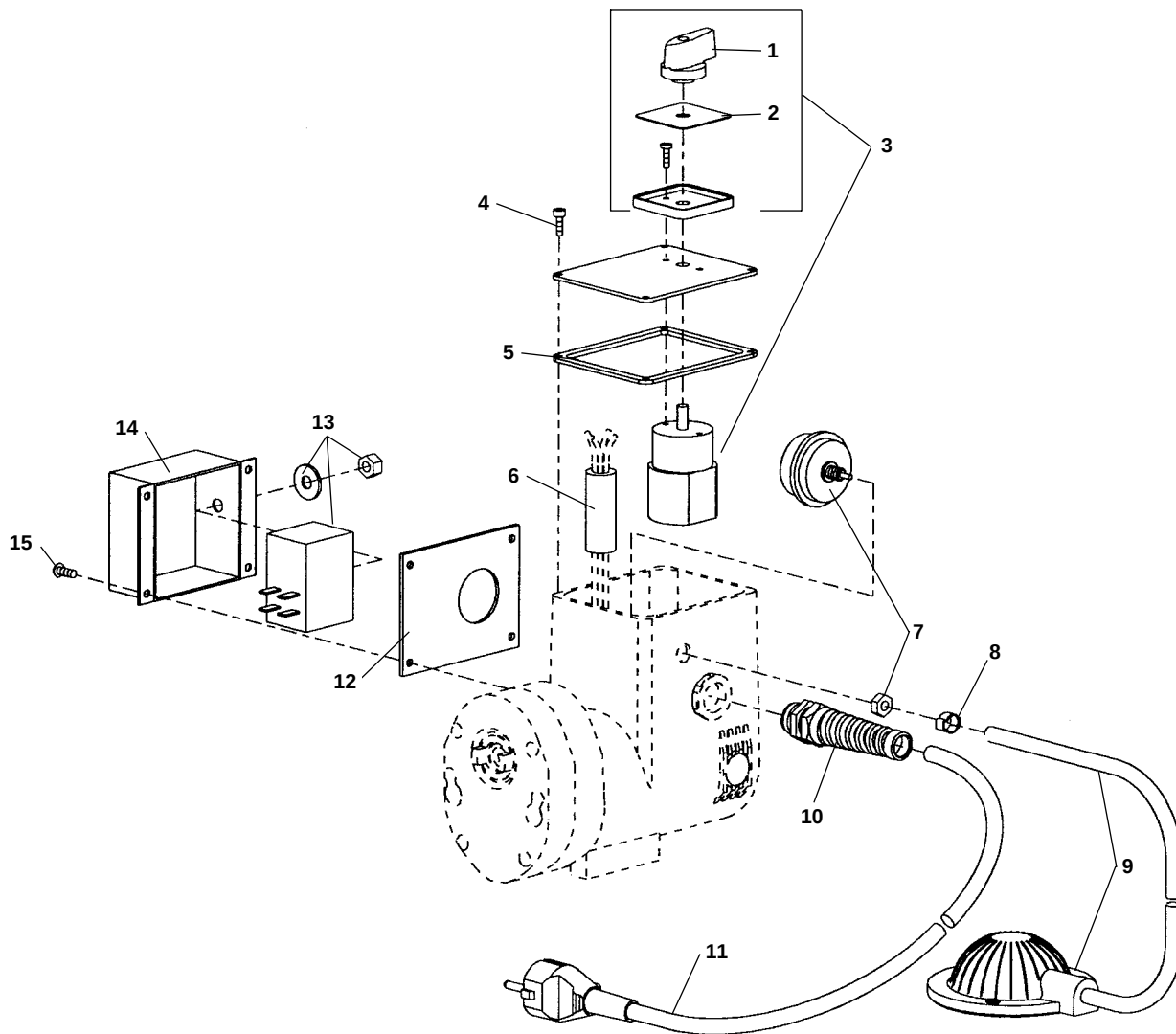
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
—	56207	Motor/Gear Box Assembly 115V	†18	56267	Brush Holder Set
—	62432	Motor/Gear Box Assembly 230V	—	56272	Brush Holder Screw (2)
—	61707	Motor/Gear Box Assy. 100V Japan	19	56277	Brush Set
1	65942	10 - 32 x 1" Screw (6)	20	56282	Brush Cap Set
2	76190	8 - 32 Hex Nut (4)	21	37967	Foot Switch Assembly
3	56217	Gear Box Housing w/Bearings	22	50507	GFI Line Cord 115V
4	56222	Bearing and Seal Set		15707	Line Cord 230V
5	56227	Output Shaft Assembly		60237	Line Cord 100V
6	66792	2nd Int. Gear	23	56287	Field Stud (2)
7	66787	1st Int. Gear	24	56292	Field Assembly 110/115V
8	81125	10 - 32 x 1/2" Screw (4)		60257	Field Assembly 230V
9	61490	Switch Guard		60247	Field Assembly 100V
10	23512	Rubber Washer	25	56297	Wavy Washer
11	56247	Cover	26	56302	Bearing
12	56252	Toggle Switch	27	56307	Armature 110/115V
13	56257	Cover Gasket		60252	Armature 230V
14	56262	Motor Housing		60242	Armature 100V
15	96265	Strain Relief	28	56312	Bearing
16	32992	Air Switch	*29	56332	Thrust Bearing
17	35142	Hose Clamp			

†Service Note: Brush holder screws are located under field studs (Ref. No. 23).

* Ref. 29 Assemble stamped end into housing.

European Electrical Components

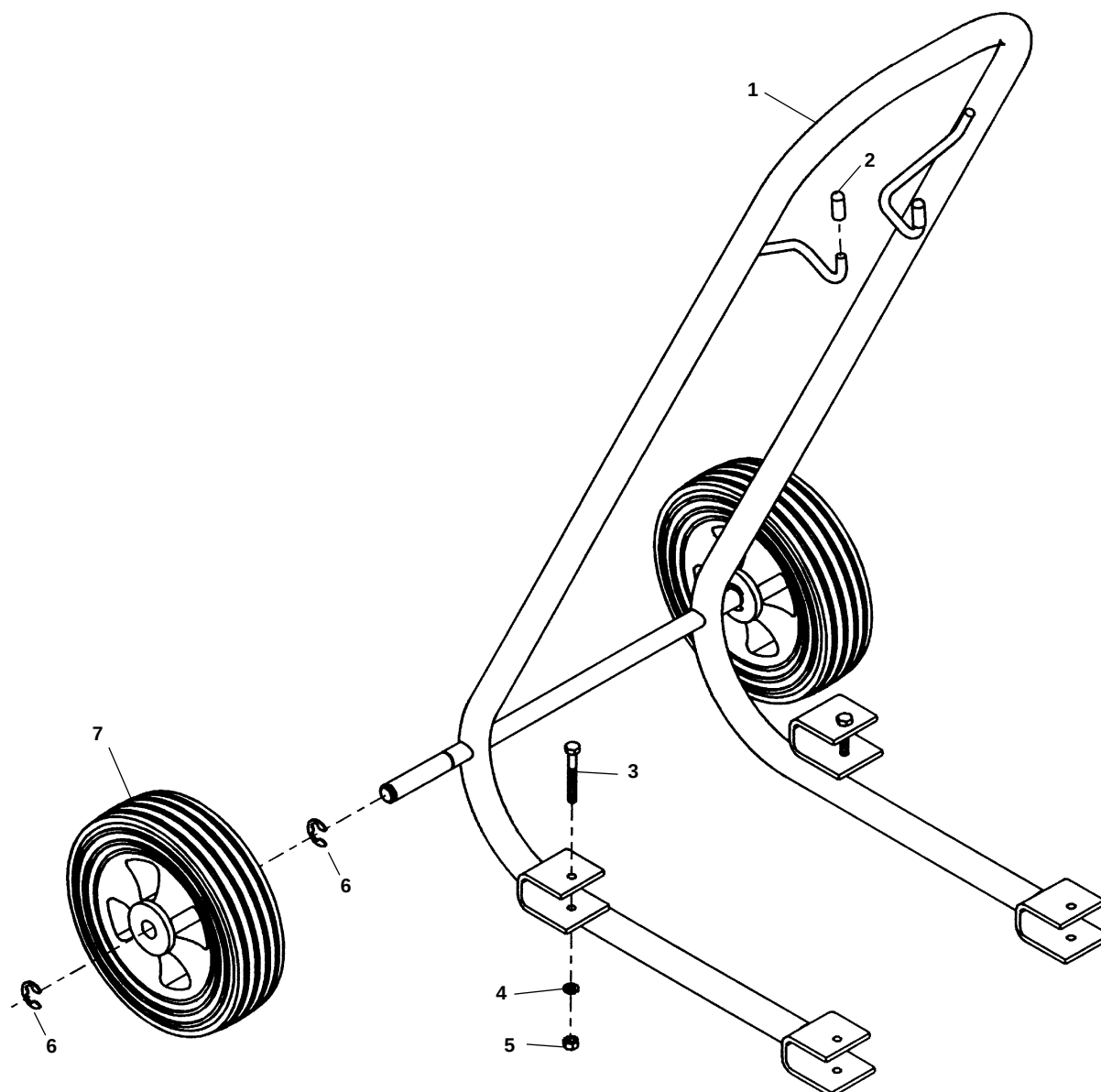


**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
—	67892	220V Motor Assembly - Europe	8	35142	Clamp
—	67897	110V Motor Assembly - Europe	9	37967	Foot Switch w/Hose
1	61397	Switch Knob	10	27187	Strain Relief w/Lock Nut
2	57517	Face Plate	11	39562	Power Cord - 220V
3	54157	Switch Assembly		45022	Power Cord - 110V
4	81125	Screw 10 - 32 x 1/2" (4)	12	67907	Gasket
5	56257	Gasket	13	63372	Suppressor w/Washer & Nut
6	63377	Ferrite Bead	14	67902	Suppressor Box
7	32992	Air Switch	15	36787	Screw #10 Self-tapping

Note: Refer to Motor and Gearbox Components for internal motor parts.

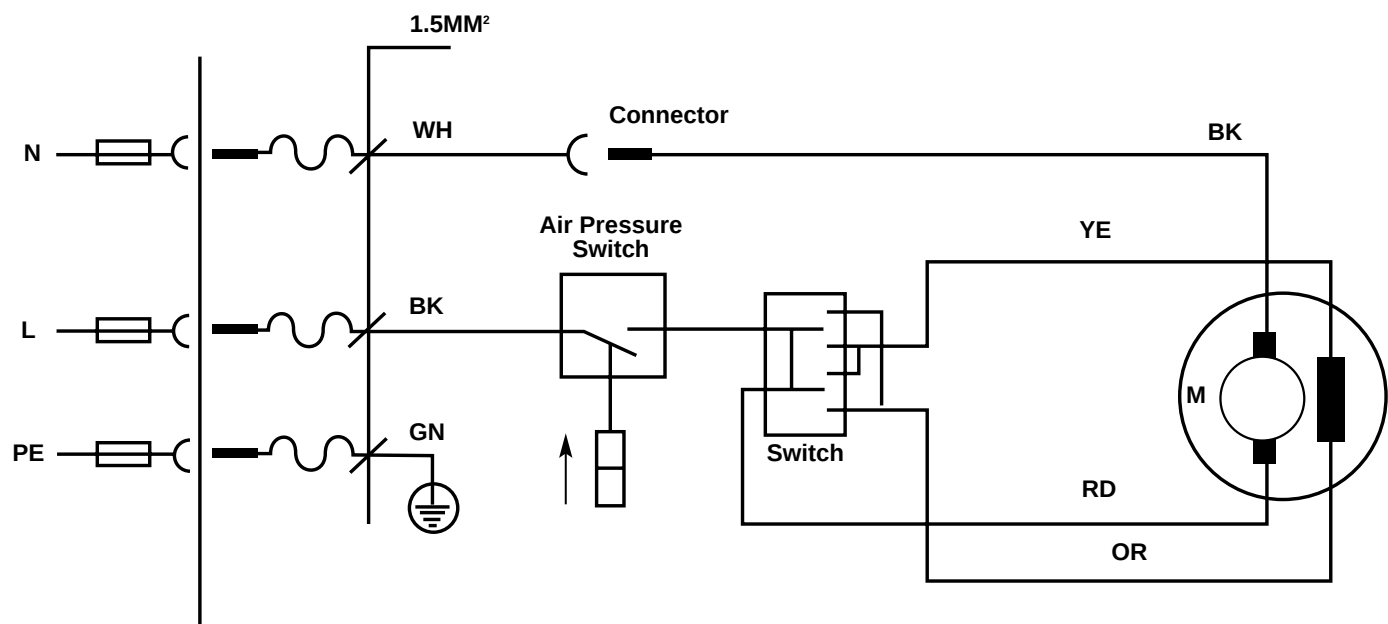
Transport Cart Components



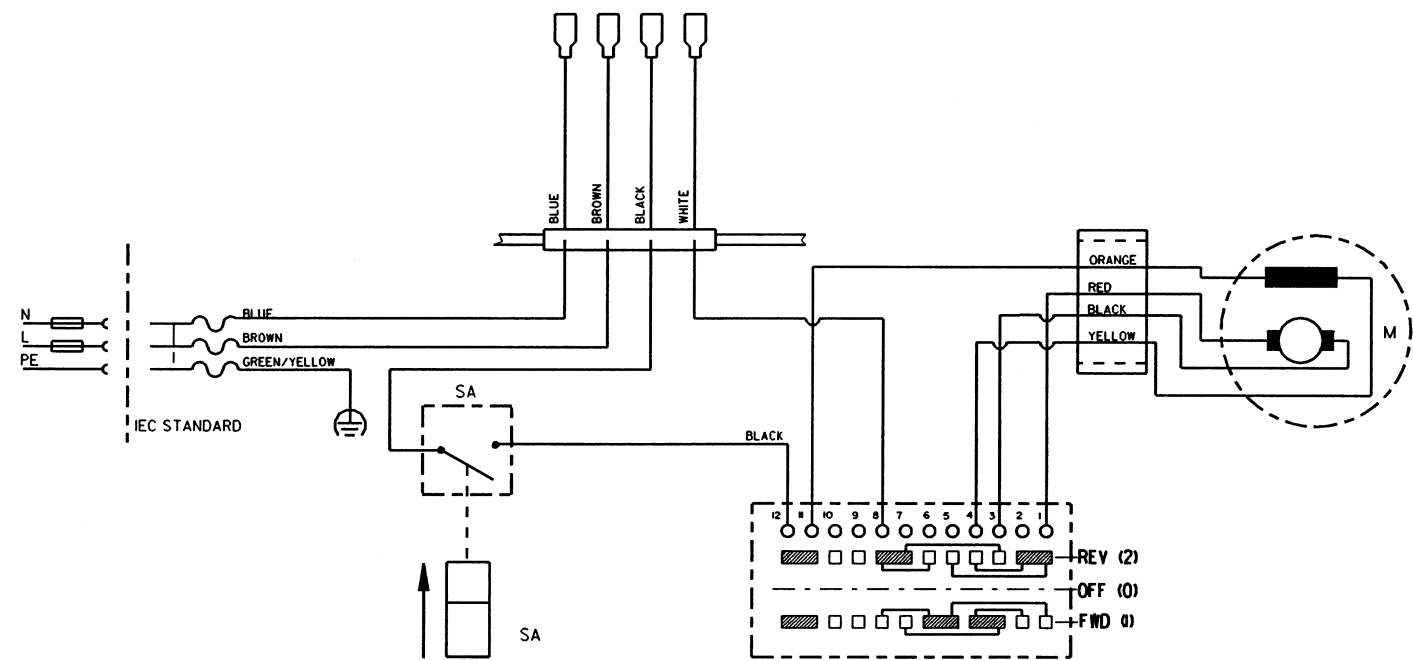
NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.

Ref. No.	Catalog No.	Description
—	55017	Transport Cart
1	64872	Frame
2	50202	Vinyl Cap (2)
3	64877	Bolt $\frac{1}{4}$ " – 20 x 2" (2)
4	60075	Lock Washer (2)
5	77710	Jam Nut (2)
6	62647	Retaining Ring (4)
7	93325	Wheel (2)

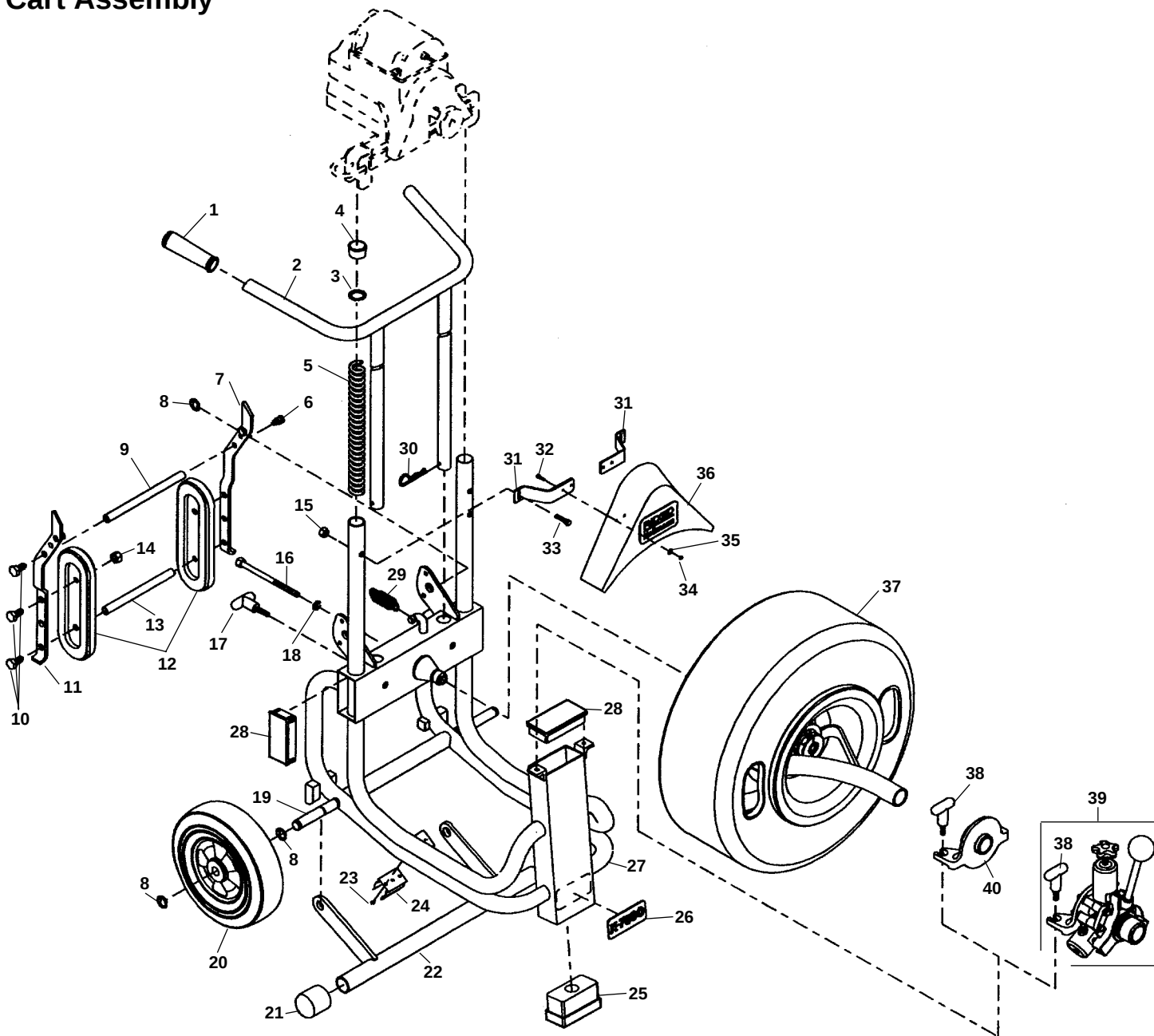
Wiring Diagram 115V/25-60 Hz



Wiring Diagram 110/220V 50 Hz



Cart Assembly



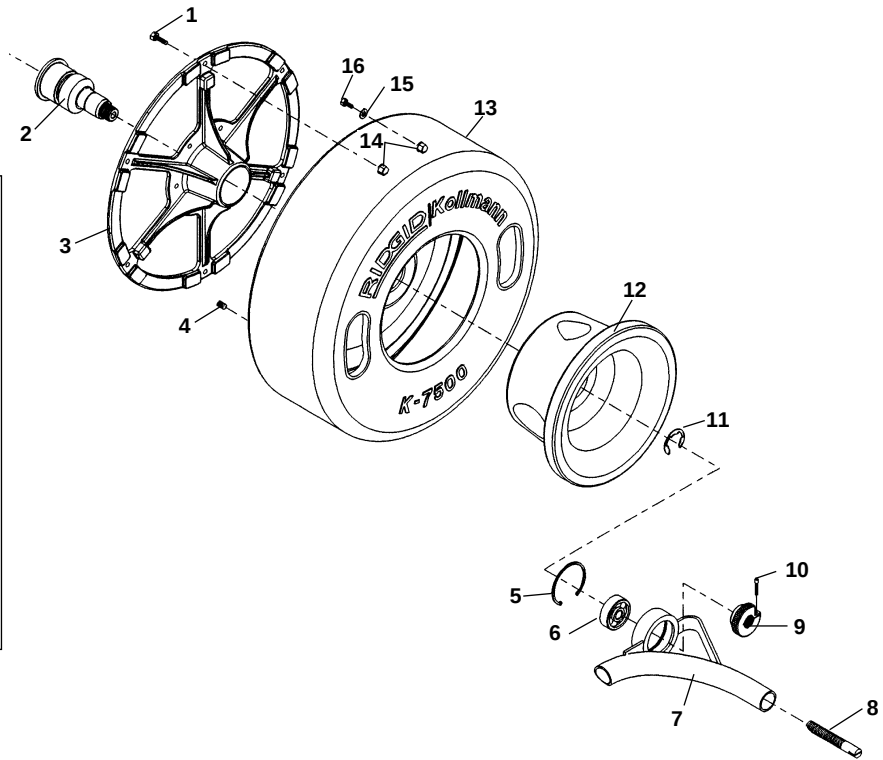
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	60827	Hand Grips (2)	15	69010	Nut $\frac{1}{4}"$ – 20 (2)	29	60667	Spring
2	60587	Handle	16	60617	Bolt $\frac{1}{2}"$ – 13 x 6"	30	60677	Cotter Hairpin (2)
3	61472	Washer	17	60622	Mounting Knob (2)	31	43967	Guard Bracket (2)
4	60422	Cap Plug (2)	18	43942	Lock Washer $\frac{1}{2}"$	32	43962	Screws #10 – 24 x $\frac{3}{4}"$ (8)
5	43957	Compression Spring	19	60627	Axle	33	43972	Carriage Bolt (2)
6	59510	Plunger Pin	20	23602	Wheel (2)	34	87970	Hex Nut #10 – 24 (4)
7	60592	Right Pivot Arm	21	23607	End Cap (2)	35	61310	Lock Washer #10 (4)
8	60050	Retaining Ring (8)	22	60632	Stabilizer	36	44027	Belt Guard
9	60597	Tie-Spring Bar	23	60637	Self-Tap Screw #6 – 32 (2)	37	61107	Drum Assembly w/ $\frac{5}{8}"$ Pigtail
10	60020	Hex Bolt $\frac{1}{2}"$ – 13 x $1\frac{1}{4}"$ (6)	24	60642	Spring Clip		60042	Drum Assembly w/ $\frac{3}{4}"$ Pigtail
11	60602	Left Pivot Arm	25	60647	Rest Pad	38	60672	Assembly Knob (2)
12	60607	Stairclimber (2)	26	60652	Model Plate	39	60032	Autofeed Assembly
13	60612	Stairclimber Bar	27	60657	Frame	40	61227	Manual Feed Assembly
14	78005	Nut $\frac{1}{2}"$ – 13 (2)	28	60662	Cap Plug			

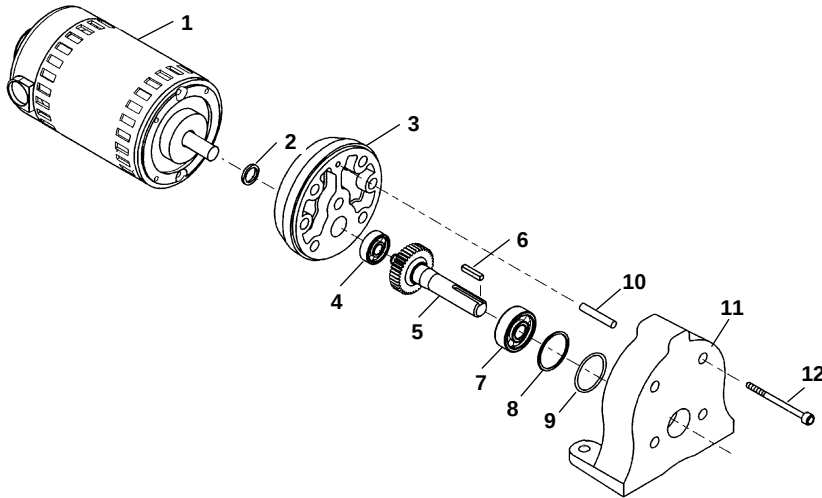
Drum Assembly

NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.

Ref. No.	Catalog No.	Description
—	61107	Drum Assembly, w/ $\frac{3}{16}$ " Pigtail
—	60042	Drum Assembly w/ $\frac{3}{4}$ " Pigtail
1	44590	Bolt $\frac{5}{16}$ " - 18 x 1" (9)
2	60537	Drum Shaft
3	60547	Drum Support
4	60552	Drain Plug
5	60567	Retaining Ring
6	50802	Bearing
7	60557	Guide Tube
8	44117	$\frac{3}{4}$ " Pigtail
	44122	$\frac{5}{8}$ " Pigtail
9	60562	Knurled Knob
10	40910	Screw
11	64042	Retaining Ring
12	60572	Inner Drum
13	60577	Outer Drum
14	27517	Lock Nut $\frac{5}{16}$ " - 18
15	35055	Washer
16	60515	Bolt $\frac{5}{16}$ " - 18 x $1\frac{1}{4}$ "

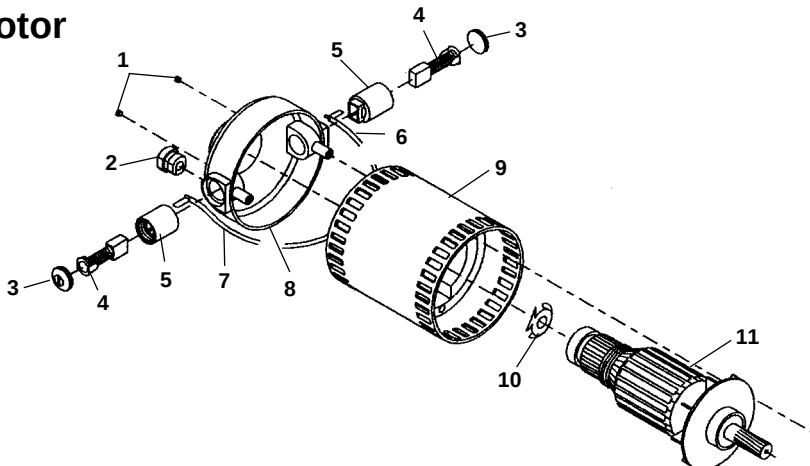


Motor/Gearbox Assembly



Ref. No.	Catalog No.	Description
—	72587	Motor/Gearbox Assembly - 115V
—	72582	Motor/Gearbox Assembly - 230V
1	60447	Motor Only - 115V
	75627	Motor - 230V
2	60442	Seal
3	60437	Rear Gear Housing
4	44760	Bearing
5	60432	Main Drive Shaft w/Key
6	60457	Key
7	44565	Bearing
8	60427	Wave Spring
9	61837	O-Ring
10	60452	Dowel Pin $\frac{3}{16}$ " x $1\frac{5}{8}$ "
11	60397	Front Gear Housing
12	60402	Screw #10-32 x $2\frac{1}{4}$ "

Motor

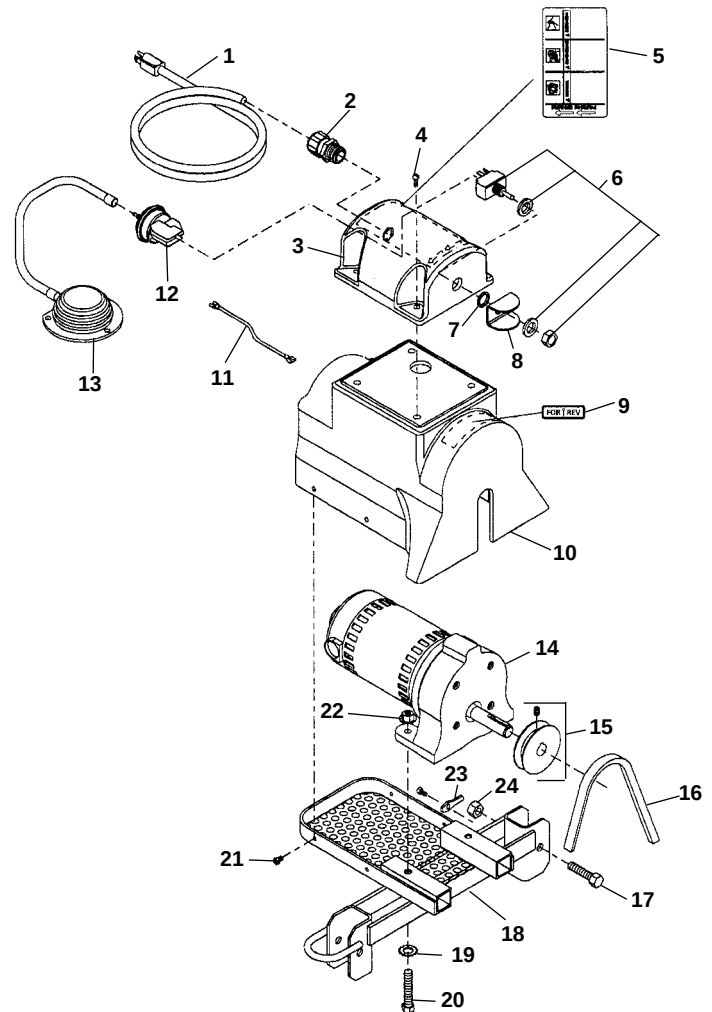


Ref. No.	Catalog No.	Description
—	75622	Motor - 115V
—	75627	Motor - 230V
1	60492	Brush Holder Screw
2	60497	Strain Relief
3	60467	Brush Cap Set
4	72482	Brush Set (115V)
	60472	Brush Set (230V)
5	60482	Brush Holder Set
6	60487	Black Brush Lead
7	60502	Red Brush Lead
8	60522	Rear Housing
9	60507	Field w/Housing (115V)
	72487	Field w/Housing (230V)
10	60512	Loading Spring
11	60517	Armature w/Bearing (115V)
	72492	Armature w/Bearing (230V)

Motor Table

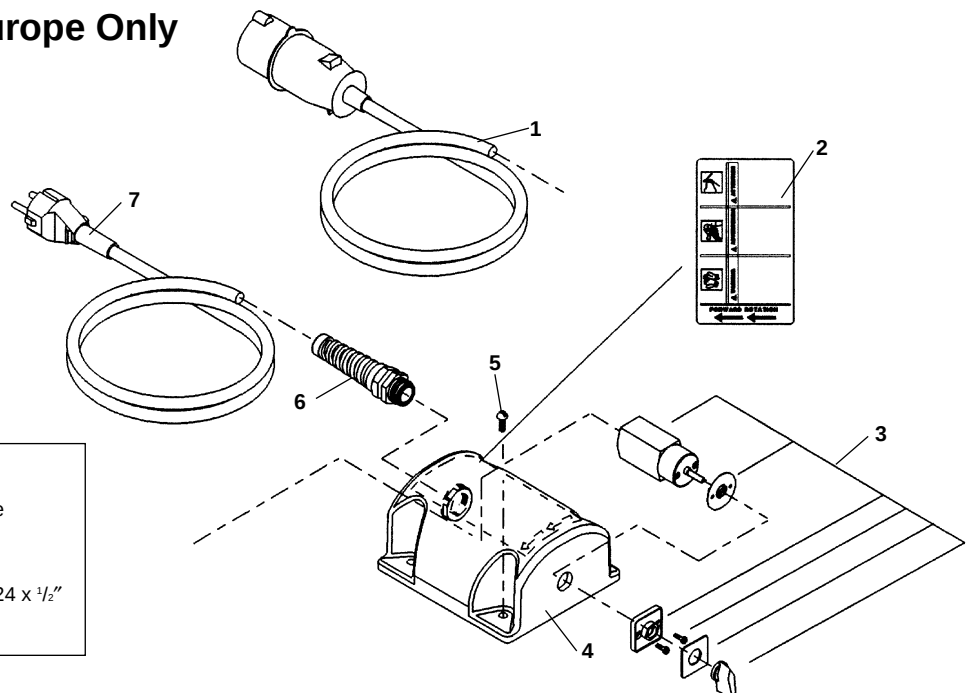
NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.

Ref. No.	Catalog No.	Description
1	50507	Line Cord w/GFI
2	96265	Strain Relief
3	60387	Switch Cover
4	43962	Screw #10 - 24 x 3/4" (8)
5	60767	Safety Sticker
6	56252	Switch
7	23512	Rubber Washer
8	61490	Switch Guard
9	23687	FOR/REV Label
10	60392	Motor Cover
11	61477	Connecting Wire
12	32992	Air Switch
13	60462	Foot Switch Assembly
14	60447	115V Motor/Gearbox Assembly
	62852	230V Motor/Gearbox Assembly
15	60407	Pulley
16	60412	V-Belt
17	43992	Screw 3/8" - 16 x 2"
18	60417	Motor Table
19	61445	Lock Washer 5/16"
20	43757	Screw 5/16" - 18 x 2 (2)
21	36787	Screw #10 - 24 (5)
22	27517	Lock Nut 5/16" - 18 (18)
23	62857	Bonding Braid
24	79985	Lock Nut 3/8"



Electrical Components Europe Only

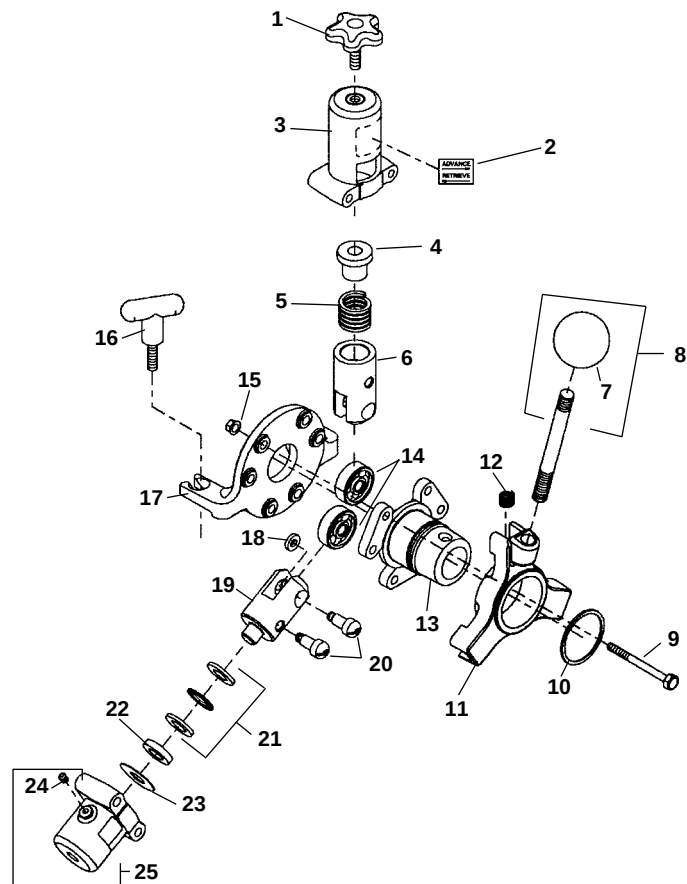
Ref. No.	Catalog No.	Description
1	45022	Line Cord 110V Europe
2	62837	Warning Label Europe
3	54157	Switch Rotary
4	62832	Switch Cap - Rotary
5	43962	Round Hd. Scr. #10 - 24 x 1 1/2"
6	54177	Strain Relief
7	39562	230V Line Cord



Autofeed Assembly

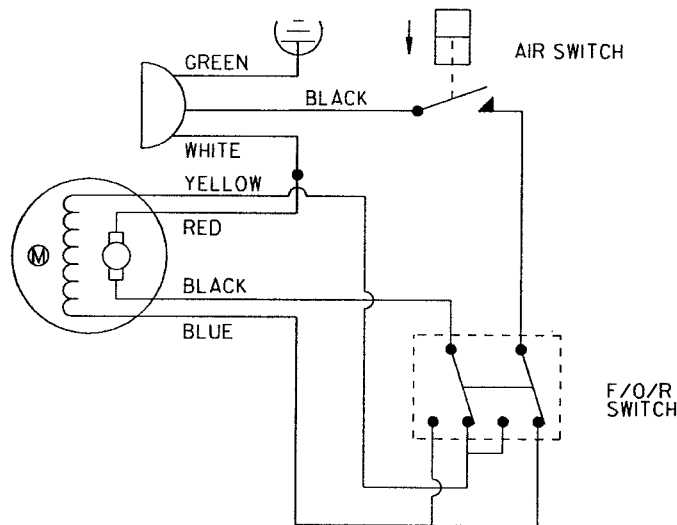
NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.

Ref. No.	Catalog No.	Description
—	60032	Autofeed Assembly
1	60682	Feed Knob
2	60762	Advance/Retrieve Label
3	60692	Top Roller Housing
4	93475	Ball Holder
5	93375	Spring
6	60707	Movable Roller Holder
7	59585	Knob
8	93630	Clutch Handle Assy. w/Knob
9	60737	Bolt $\frac{7}{16}$ " - 18 x 3", Hex Head (6)
10	44112	Retaining Ring
11	60742	Actuator
12	60697	Return Spring
13	60747	Front Support Plate
14	60752	Roller Bearing (3)
15	27517	Lock Nut $\frac{7}{16}$ " - 18 (6)
16	60672	Handle (2)
17	60712	Back Support Plate
18	60717	Bearing Spacer (3)
19	60722	Stationary Roller Housing (2)
20	60732	Actuator Pin (6)
21	68367	Thrust Bearing Assembly (2)
22	68372	Spacer 0.235" (2)
23†	68377	Spacer 0.06" (2)
24	89810	Grease Fitting (4)
25†	60727	Stationary Roller Housing (2)

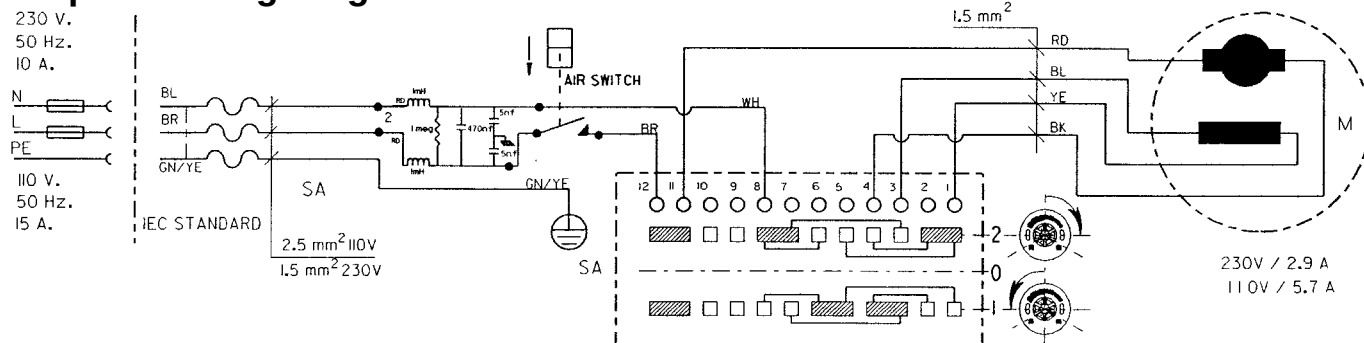


† Service Note: Add the 0.06" spacers (Ref. No. 24) to the stationary roller holders (Ref. No. 25) to use the autofeed on $\frac{5}{16}$ " cable.

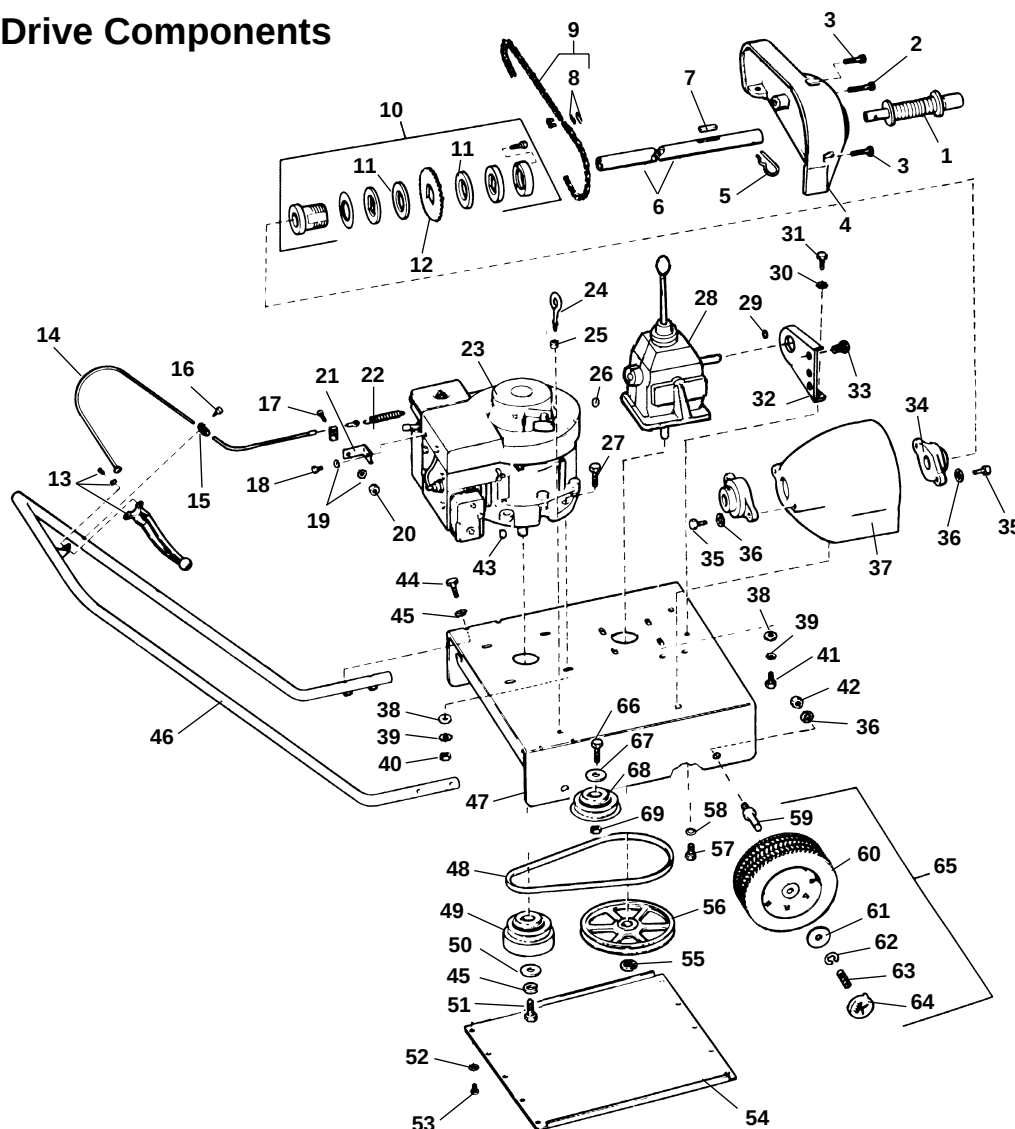
Wiring Diagram



European Wiring Diagram



Cart and Drive Components



**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

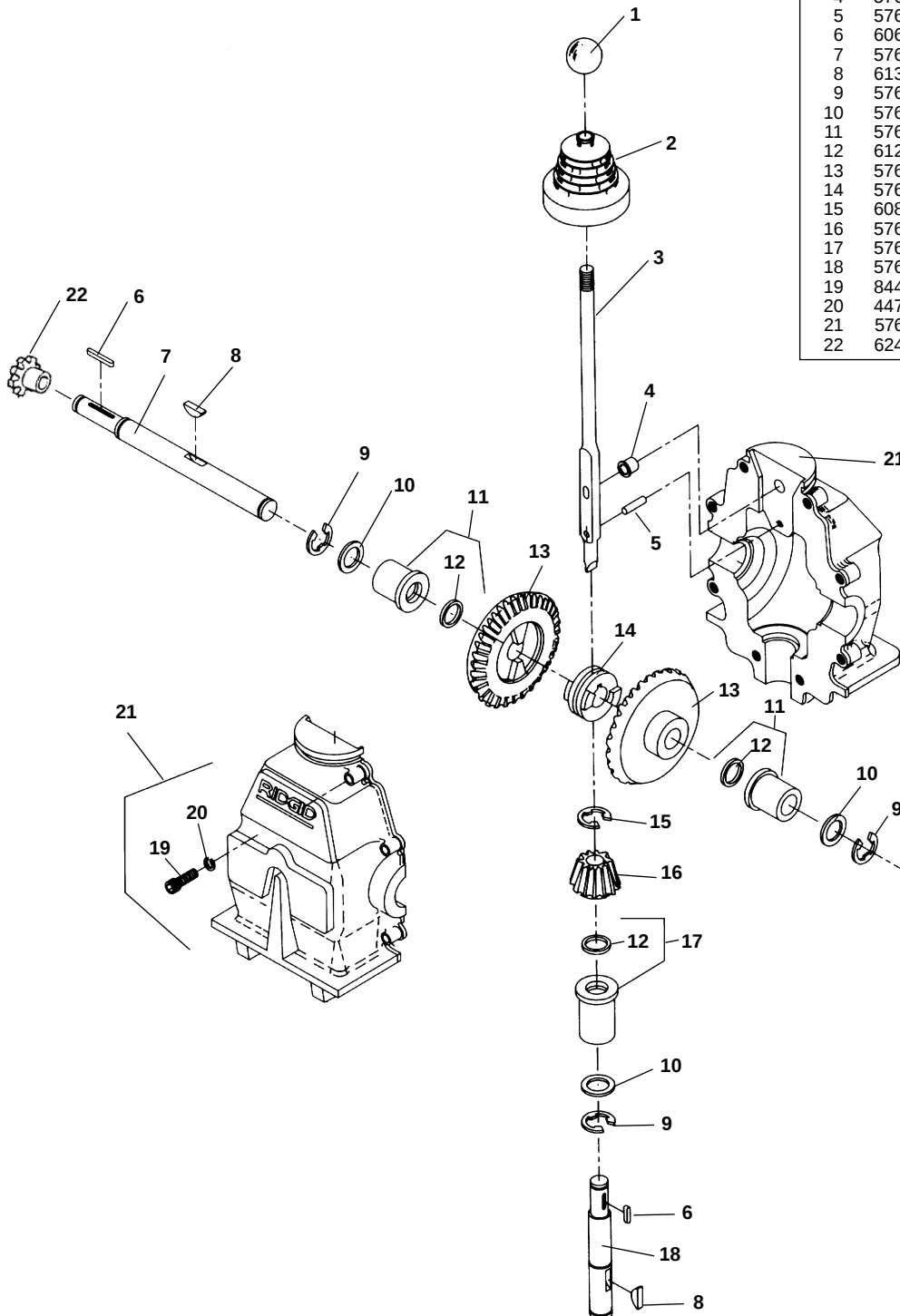
Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	62170	B-3542 Rod Holder	26	63190	A-3565 Key	48	66972	"V" Belt
2	59915	A-2192 Screw	27	60515	A-2531 Hex Head Bolt (4)	49	61380	A-3563 Centrifugal Clutch
3	59920	A-2193 Screw (2)	28	57697	Transmission	50	61275	A-3339 Washer
4	62490	D-3544 Guard		61467	Transmission Kit	51	61435	A-3577 Hex Head Bolt
5	61400	A-3567 Drive Pin			(Incl. Ref. #32, 41, 48)	52	61310	A-3439 Washer (10)
6	62180	B-3548 Drive Shaft	29	60860	A-297 Retaining Ring	53	60000	A-2258 Screw (10)
7	61425	A-3572 Key	30	61440	A-3591 Lock Washer	54	62175	B-3547 Cover
8	60625	A-2643 Master Link	31	60265	A-2441 Screw	55	62647	A-505 Retaining Ring
9	61405	A-3568 Chain (Incl. Ref. #8)	32	62425	Chain Guard	56	61385	A-3564 Pulley
10	61415	A-3570 Torque Limiter	33	61110	A-3247 Self-Tapping Screw (2)	57	59785	A-210 Bolt (4)
11	61420	A-3571 Fiber Disc (2)	34	61375	A-3562 Main Bearing w/Set Screw (2)	58	61450	A-3593 Lock Washer (4)
12	61410	A-3569 Sprocket				59	43837	A-3546 Axle (4)
13	61365	A-3560 Throttle Handle	35	60020	A-2269 Bolt (4)	60	62420	C-3556 Wheel (4)
14	61370	A-3561 Throttle Cable	36	60090	A-2292 Lock Washer (8)	61	60995	A-3039 Washer (4)
15	61430	A-3574 Clamp	37	62485	D-3543 Body	62	60050	A-2281 Retaining Ring (4)
16	61500	A-427 Self-Tapping Screw	38	60060	A-2284 Washer (8)	63	61000	A-3041 Spring (4)
17	79965	E-1667 Screw	39	61445	A-3592 Lock Washer (8)	64	59700	A-1881 Hub Cap (4)
18	—	*Bolt	40	60230	A-2395 Nut (4)	65	62430	C-3611 Wheel Assembly (Incl. Ref. #59-64)
19	61310	A-3439 Washer (2)	41	61462	A-3251 Hex Head Bolt (4)		84690	A-4558 Torque Testing Tool (not shown)
20	60200	A-2382 Nut	42	61455	A-3612 Nut (4)	66	23617	3/8" - 13 x 2" Carriage Bolt
21	61350	A-3554 Bracket	43	61395	A-3566 Key	67	59970	3/8" Flat Washer
22	59545	A-132 Spring	44	76870	A-3672 Screw (4)	68	66962	Idle Pulley
23	66977	Engine/6HP	45	60085	A-2290 Lock Washer (5)	69	43947	3/8" Lock Nut
24	59225	A-899 Coupling Pin Key	46	62415	C-3552 Handle Assembly			
25	61460	A-3613 Grommet	47	62495	D-3545 Base			

†Transmission kit includes necessary hardware to convert to new style transmission. *Standard hardware item may be purchased locally.

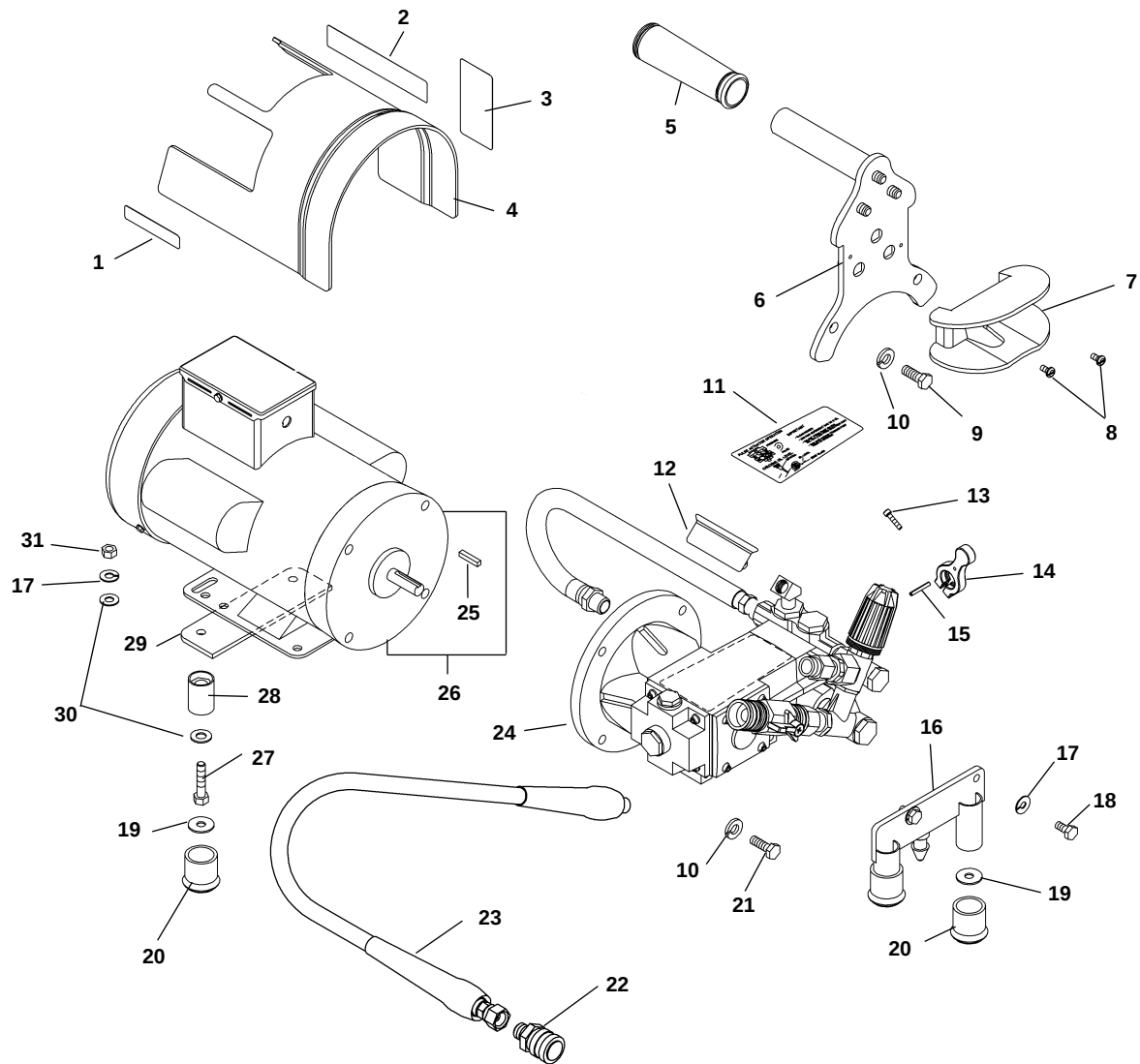
Transmission

**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description
—	57692	Transmission
1	59585	Knob
2	57617	Shift Cover
3	57682	Shift Lever
4	57667	Plunger
5	57672	Pin
6	60680	504 Pin
7	57632	Output Shaft
8	61390	Key (2)
9	57662	Retaining Ring (3)
10	57657	Washer (3)
11	57647	Bushing w/O-Ring (2)
12	61277	O-Ring (3)
13	57622	Bevel Gear (2)
14	57642	Clutch Collar
15	60860	Retaining Ring
16	57627	Pinion Gear
17	57652	Bushing w/O-Ring
18	57637	Input Shaft
19	84425	1/4" - 20 x 1.25" Soc. Hd. Screw (8)
20	44740	1/4" Lock Washer (8)
21	57612	Housing Assembly (Includes 19, 20)
22	62427	8T Sprocket



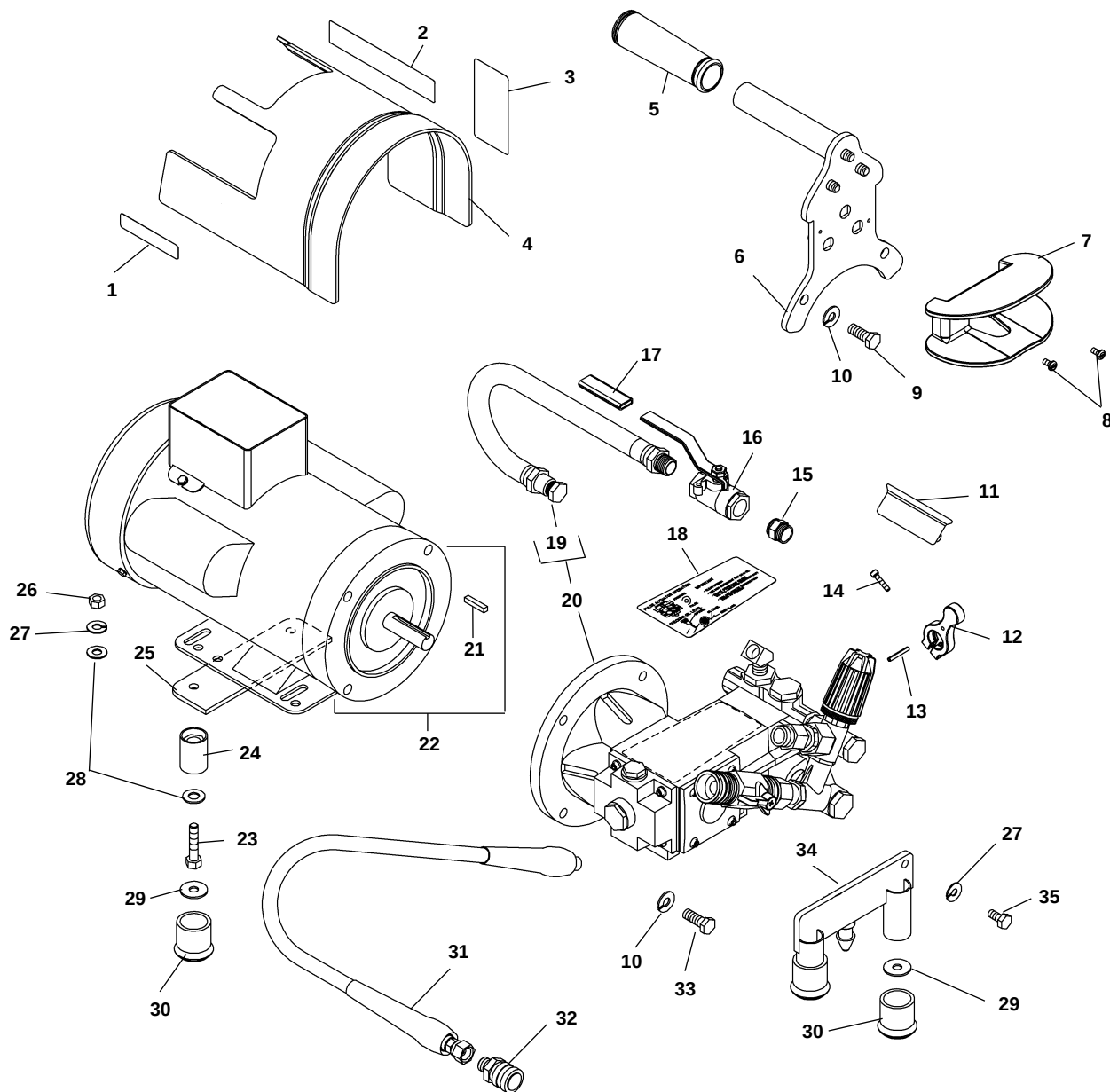
Main Components - Single Pulse Model



**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	63972	Decal, Potable Water	17	60080	Lock Washer, $\frac{5}{16}$ " (2)
2	63962	Decal, Model Number	18	61130	Hex Screw, $\frac{5}{16}$ " - 18 x $\frac{3}{4}$ " (2)
3	48232	Decal, Warning	19	60847	Flat Washer, $\frac{1}{2}$ " (4)
4	63917	Motor Shroud	20	37962	Rubber Foot (4)
5	60827	Hand Grip	21	85915	Hex Screw, $\frac{3}{8}$ " - 16 x $\frac{3}{4}$ " (2)
6	63932	Handle	22	48117	Female Quick Connect, $\frac{1}{4}$ " NPT Male
7	63937	Cord Wrap	23	63927	Output Hose
8	16417	Screw, #10 - 32 x $\frac{3}{8}$ " Pan Head (2)	24	63897	Pump Assembly Complete
9	60380	Hex Screw, $\frac{3}{8}$ " - 16 x $1\frac{1}{4}$ " (2)	25	47677	Key, $\frac{1}{8}$ " x $\frac{3}{16}$ " x 1"
10	60085	Lock Washer, $\frac{3}{8}$ " (4)	26	63892	Motor, 115V, 1.5 HP
11	63967	Decal, Pulse Instruction	27	43847	Hex Screw, $\frac{5}{16}$ " - 18 x $1\frac{1}{2}$ " (2)
12	63902	Pressure Gauge	28	63947	Rear Foot
13	46375	Socket Head Screw, #6 - 32 x $\frac{5}{8}$ "	29	63952	Rear Bracket
14	63907	Actuator Handle	30	60060	Flat Washer, $\frac{5}{16}$ " (2)
15	41500	Spring Pin	31	60230	Hex Nut, $\frac{5}{16}$ " - 18 (2)
16	63942	Front Foot			

Main Components - Dual Pulse Model



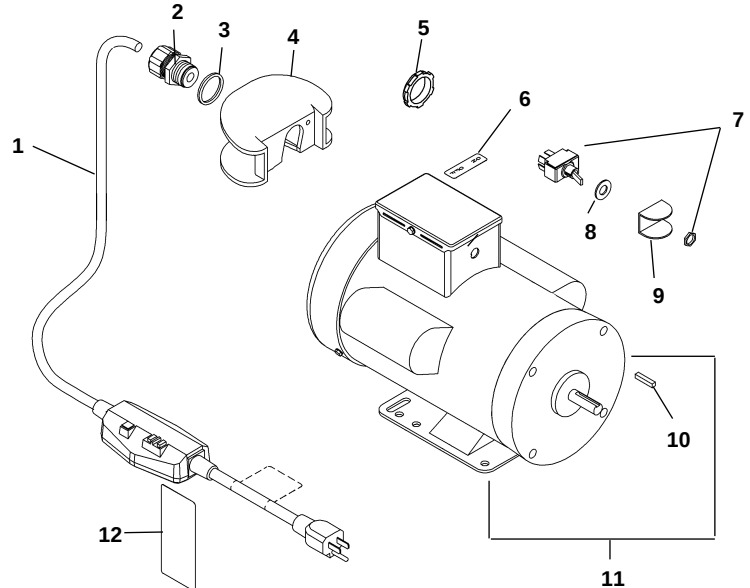
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	63972	Decal, Potable Water	19	48132	Dampener Hose, 18"
2	63962	Decal, Model Number	20	63897	Pump Assembly Complete
3	48232	Decal, Warning	21	47677	Key, $\frac{1}{8}$ " x $\frac{3}{16}$ " x 1"
4	63917	Motor Shroud	22	63892	Motor, 115V, 1.5 HP
5	60827	Hand Grip	23	43847	Hex Screw, $\frac{5}{16}$ " - 18 x $1\frac{1}{2}$ " (2)
6	63932	Handle	24	63947	Rear Foot
7	63937	Cord Wrap	25	63952	Rear Bracket
8	16417	Screw, #10 - 32 x $\frac{3}{8}$ " Pan Head (2)	26	60230	Hex Nut, $\frac{5}{16}$ " - 18 (2)
9	60380	Hex Screw, $\frac{3}{8}$ " - 16 x $1\frac{1}{4}$ " (2)	27	60080	Lock Washer, $\frac{5}{16}$ " (2)
10	60085	Lock Washer, $\frac{3}{8}$ " (4)	28	60060	Flat Washer, $\frac{5}{16}$ " (2)
11	63902	Pressure Gauge	29	60847	Flat Washer, $\frac{1}{2}$ " (4)
12	63907	Actuator Handle	30	37962	Rubber Foot (4)
13	41500	Spring Pin	31	63927	Output Hose
14	46375	Socket Head Screw, #6 - 32 x $\frac{5}{8}$ "	32	48117	Female Quick Connect, $\frac{1}{4}$ " NPT Male
15	63912	Hex Nipple, $\frac{3}{8}$ " NPT	33	85915	Hex Screw, $\frac{3}{8}$ " - 16 x $\frac{3}{4}$ " (2)
16	48127	Pulse Control Valve	34	63942	Front Foot
17	64272	Pulse Valve Cover	35	61130	Hex Screw, $\frac{5}{16}$ " - 18 x $\frac{3}{4}$ " (2)
18	63967	Decal, Pulse Instruction			

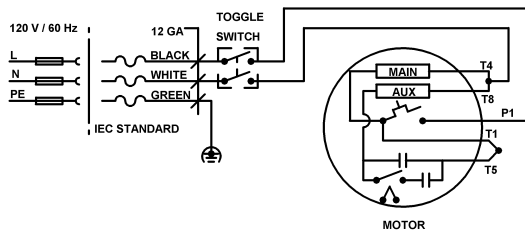
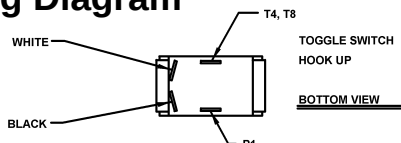
Electrical Components

NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.

Ref. No.	Catalog No.	Description
1	63922	Power Cord with GFCI
2	36732	Strain Relief
3	64037	Flat Washer
4	63937	Cord Wrap
5	48052	Strain Relief Nut
6	48087	Decal, ON/OFF
7	48057	Toggle Switch w/Fasteners
8	23512	Rubber Washer
9	61490	Switch Guard
10	47677	Key, $\frac{1}{8}$ " x $\frac{3}{16}$ " x 1"
11	63892	Motor, 115V, 1.5 HP
12	63977	Warning Tag, GFCI

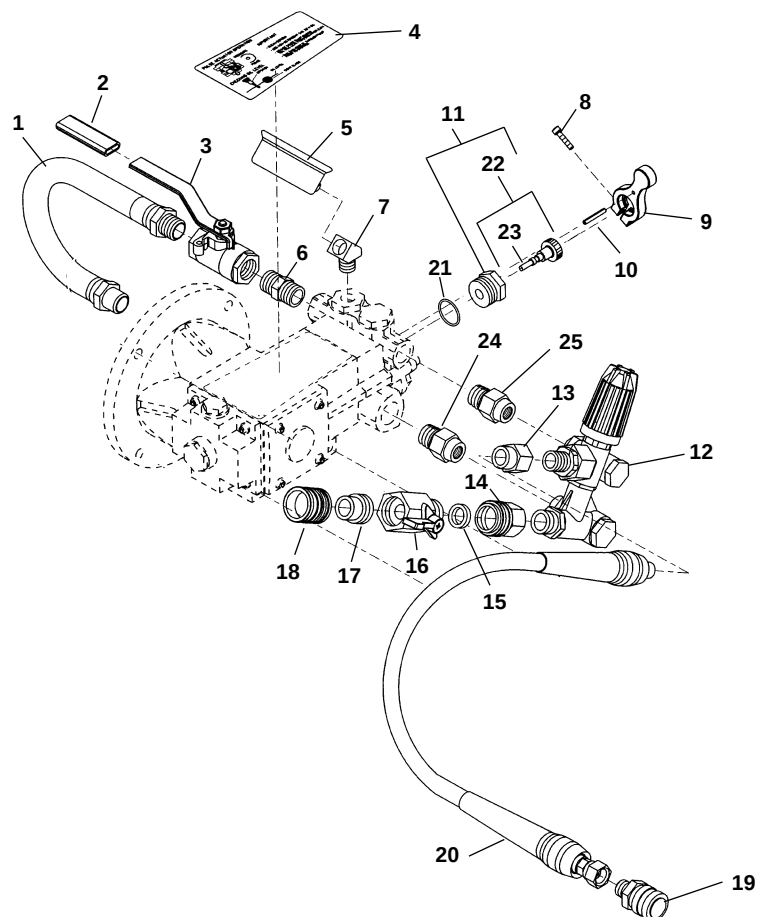


Wiring Diagram

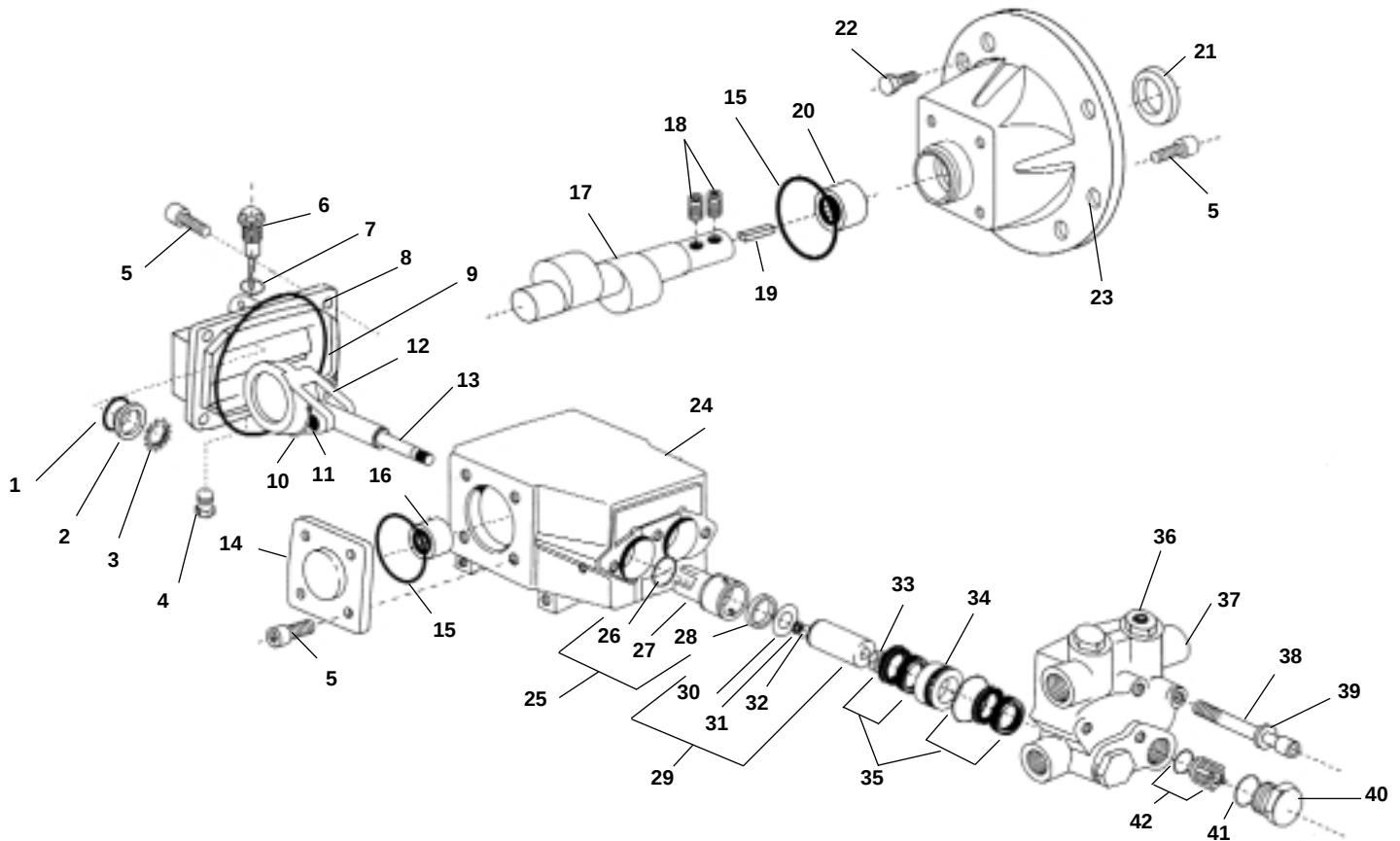


Flow Control System

Ref. No.	Catalog No.	Description
1	48132	Dampener Hose, 18"
2	64272	Pulse Valve Cover
3	48127	Pulse Control Valve
4	63967	Decal, Pulse Instruction
5	63902	Pressure Gauge
6	63912	Hex Nipple, $\frac{3}{8}$ " NPT
7	48107	Street El, 45 Degree
8	46375	Soc Hd Screw, #6 - 32 x $\frac{5}{8}$ "
9	63907	Actuator Handle
10	41500	Spring Pin
11	65192	Pulse Assembly
12	65202	Unloader Valve Assembly
13	65197	Reducer Coupling
14	65207	Hose Adapter
15	48287	Filter Washer
16	49582	Water Shut Off
17	48202	Hose Coupler Nipple
18	48197	Hose Coupler
19	48117	Female Quick Connect, $\frac{1}{4}$ " NPT Male
20	63927	Output Hose
21	65392	O-Ring
22	85872	Adjusting Screw w/Seals
23	85882	Seals for Adjusting Screw
24	70427	Inlet Adapter, $\frac{1}{2}$ " x $\frac{1}{2}$ "
25	70432	Outlet Adapter, $\frac{3}{8}$ " x $\frac{3}{8}$ "
	65102	Wash Wand Nozzle (Not Shown)
	70897	Chemical Injector (Not Shown)



Pump Assembly - Type 2



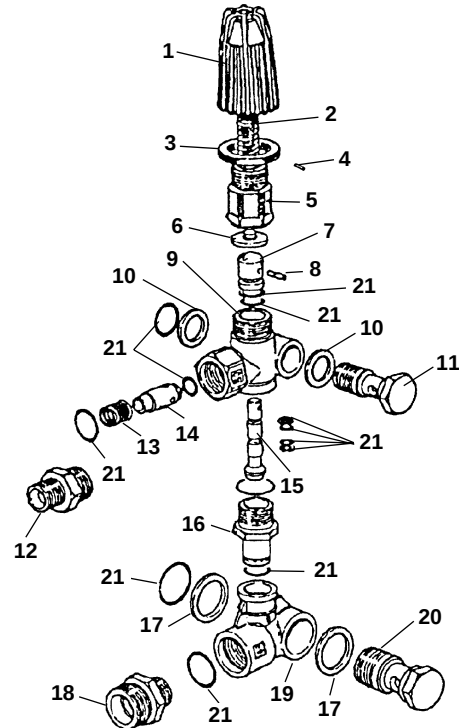
**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	88852	O-Ring	15	47707	O-Ring (2)	30	47762	Slinger Ring (2)
2	88847	Sight Glass	16	88822	Needle Bearing	31	47712	Backup Seal (2)
3	88857	Retainer	17	88877	Crankshaft	32	47697	O-Ring (2)
4	47782	Drain Plug, 1/4" NPT	18	47752	Set Screw, 1/4" - 28 x 1/4" (2)	33	88867	Retaining Nut (2)
5	40910	Soc. Hd. Cap Screw, 1/4" - 20 x 3/4" (12)	19	47677	Key, 1/8" x 3/16" x 1"	34	88862	Cup Retainer, (2)
6	47787	Dip Stick	20	47727	Needle Bearing	35	88432	Plunger Seal Kit
7	88452	O-Ring	21	47732	Seal	36	89017	Valve Cap, Ported, 1/4" NPT
8	88842	Crankcase Cover	22	75350	Hex Bolt, 3/8" - 16 x 1 1/4" (4)	37	88792	Head
9	88447	O-Ring	23	47667	C-Flange End Cover	38	47747	Socket Head Cap Screw (4)
10	88837	Spring Retainer (2)	24	88812	Crankcase	39	88872	Lock Washer (4)
11	88827	Wrist Pin (2)	25	88437	Oil Seal Repair Kit	40	88412	Valve Cap (2)
12	88832	Connecting Rod (2)	26	88442	O-Ring (2)	41	88417	O-Ring (4)
13	88807	Plunger Rod (2)	27	88797	Insert (2)	42	88422	Valve Kit
14	88817	End Plate	28	88802	Oil Seal (2)			
			29	88427	Plunger Kit, (2)			

Unloader Valve - Early Style (Red Knob)

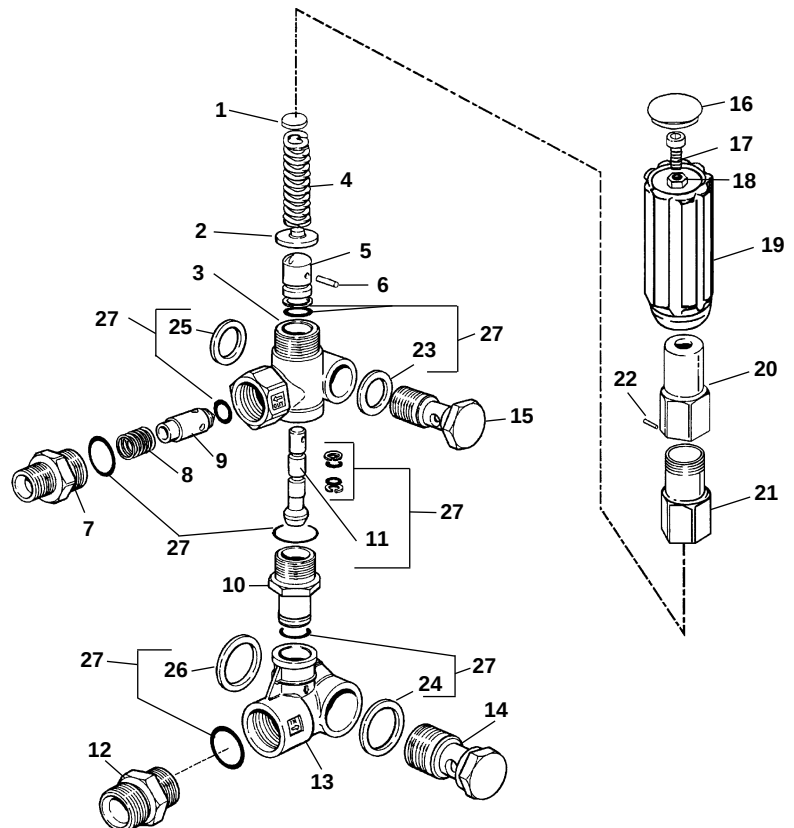
NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.

Ref. No.	Catalog No.	Description
1	64277	Control Knob
2	64282	Spring
3	64287	Stop Ring
4	64292	Set Screw
5	64297	Spring Guide
6	64302	Spring Button
7	64307	Poppet
8	64312	Pin
9	64317	Valve Body
10	64322	Gasket (2)
11	64327	Outlet Port Adapter
12	64332	Poppet Retainer
13	64337	Spring
14	64342	Poppet
15	64347	Plunger
16	64352	By-Pass Spring
17	64357	Gasket
18	64362	Inlet Adapter
19	64367	By-Pass Adapter
20	64372	Port Adapter
21	64377	Seal Kit

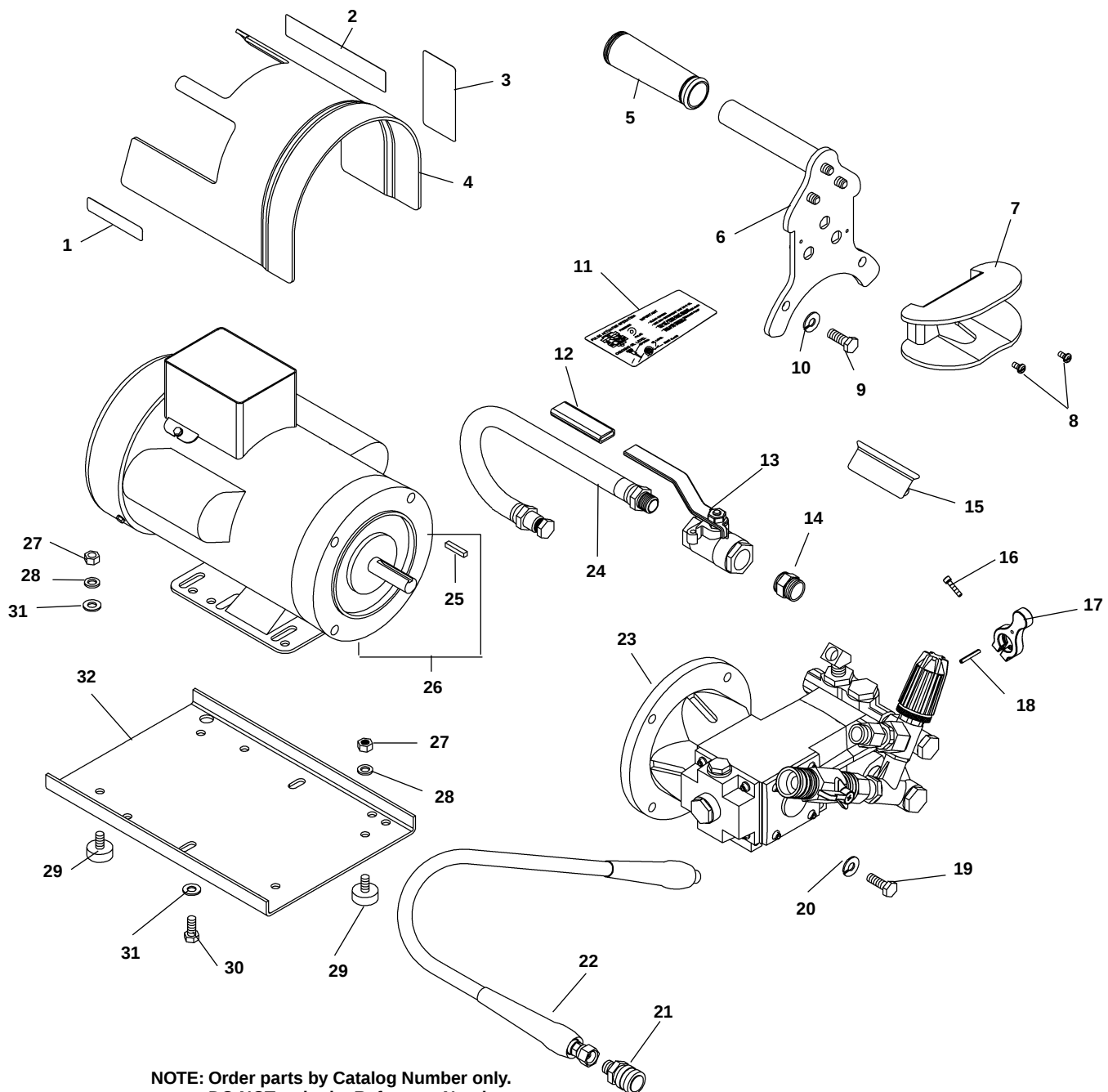


Unloader Valve - (Black Knob)

Ref. No.	Catalog No.	Description
—	65202	Unloader Valve Complete
1	85902	Plate
2	64302	Spring Button
3	64317	Body
4	85897	Spring
5	64307	Poppet
6	64312	Pin
7	64332	Outlet Poppet Retainer
8	64337	Spring
9	64342	Poppet
10	64352	By-Pass Seat
11	64347	Plunger
12	64362	Inlet Adapter
13	64367	Manifold
14	64372	Inlet Port Adapter
15	64327	Outlet Port Adapter
16	85892	Plug Cap
17	32270	Soc. Hd. Cap Screw $\frac{5}{16}$ " - 18 - $\frac{3}{4}$ "
18	61115	Hex Nut $\frac{5}{16}$ " x 18
19	85887	Control Knob (Black)
20	85907	Cap
21	85917	Spring Guide
22	85912	Pin
23	64322	Seal Washer
24	64357	Seal Washer
25	85922	Seal Washer
26	85927	Seal Washer
27	85932	Seal Kit



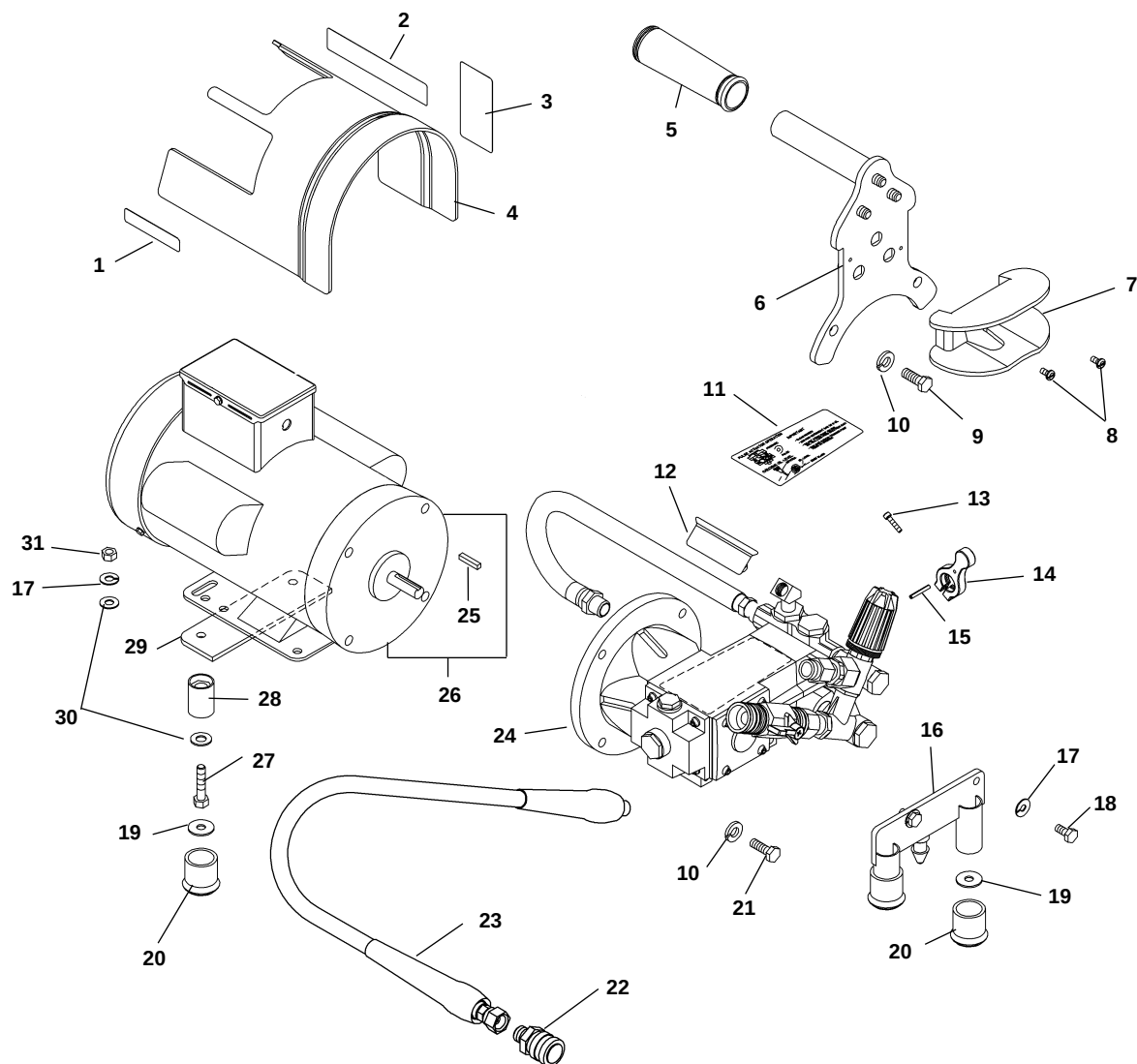
Main Components - 120V 60Hz



**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	63972	Decal, Potable Water	17	63907	Actuator Handle
2	65047	Decal, Model Number	18	41500	Spring Pin
3	48232	Decal, Warning	19	60380	Screw, $\frac{3}{8}$ " - 16 x $1\frac{1}{4}$ " (2)
4	63917	Motor Shroud	20	60085	Lock Washer, $\frac{3}{8}$ " (4)
5	60827	Hand Grip	21	63927	Output Hose
6	63932	Handle	22	48117	Female Quick Connect, $\frac{1}{4}$ " NPT Male
7	63937	Cord Wrap	23	86122	Pump Assembly Complete
8	16417	Pan Head Screw, #10 - 32 x $\frac{3}{8}$ " (2)	24	48132	Dampener Hose, 18"
9	60380	Hex Screw, $\frac{3}{8}$ " - 16 x $1\frac{1}{4}$ " (2)	25	47677	Square Key, $\frac{1}{8}$ " x $\frac{3}{16}$ " x 1"
10	60085	Lock Washer, $\frac{3}{8}$ " (4)	26	65042	Motor, 120V 60Hz 2 HP
11	63967	Decal, Pulse Instruction	27	60230	Hex Nut, $\frac{5}{16}$ " - 18 (6)
12	64272	Pulse Valve Cover	28	60080	Lock Washer, $\frac{3}{8}$ " (6)
13	48127	Pulse Control Valve	29	48187	Rubber Foot (4)
14	63912	Hex Nipple, $\frac{3}{8}$ " NPT	30	61130	Screw, $\frac{5}{16}$ " - 18 x $\frac{3}{4}$ " (2)
15	63957	Pressure Gauge	31	60060	Flat Washer, $\frac{5}{16}$ " (6)
16	46375	Socket Head Screw, #6 - 32 x $\frac{5}{8}$ "	32	48182	Base Plate

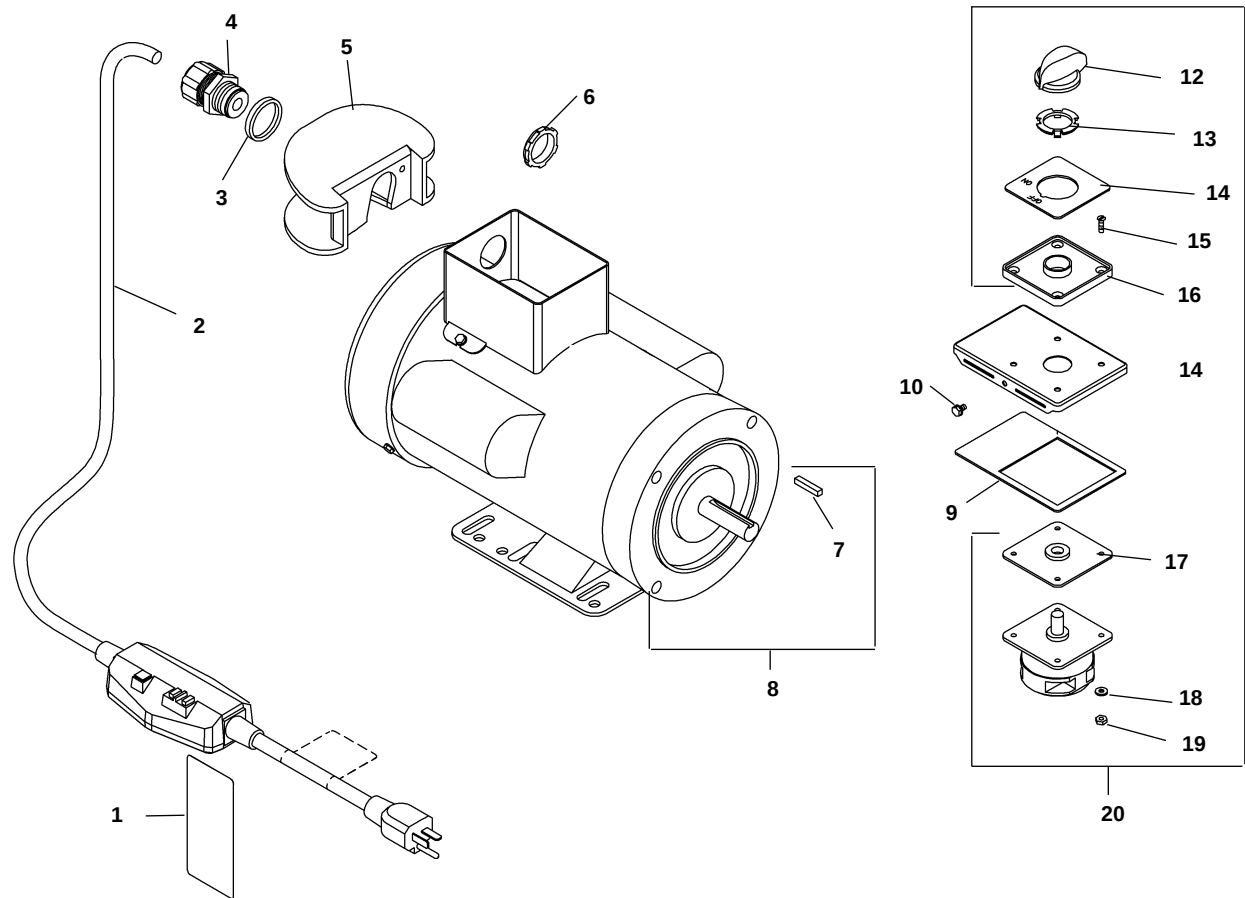
Main Components - 220V 50Hz Export



**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	63972	Decal, Potable Water	17	60080	Lock Washer, $\frac{5}{16}$ " (2)
2	63962	Decal, Model Number	18	61130	Hex Screw, $\frac{5}{16}$ " - 18 x $\frac{3}{4}$ " (2)
3	48232	Decal, Warning	19	60847	Flat Washer, $\frac{1}{2}$ " (4)
4	63917	Motor Shroud	20	37962	Rubber Foot (4)
5	60827	Hand Grip	21	85915	Hex Screw, $\frac{3}{8}$ " - 16 x $\frac{3}{4}$ " (2)
6	63932	Handle	22	48117	Female Quick Connect, $\frac{1}{4}$ " NPT Male
7	63937	Cord Wrap	23	63927	Output Hose
8	16417	Screw, #10 - 32 x $\frac{3}{8}$ " Pan Head (2)	24	86122	Pump Assembly Complete
9	60380	Hex Screw, $\frac{3}{8}$ " - 16 x $1\frac{1}{4}$ " (2)	25	47677	Key, $\frac{1}{8}$ " x $\frac{3}{16}$ " x 1"
10	60085	Lock Washer, $\frac{3}{8}$ " (4)	26	94452	Motor, 220V 50Hz 2HP
11	63967	Decal, Pulse Instruction	27	43847	Hex Screw, $\frac{5}{16}$ " - 18 x $1\frac{1}{2}$ " (2)
12	63957	Pressure Gauge	28	63947	Rear Foot
13	46375	Socket Head Screw, #6 - 32 x $\frac{5}{8}$ "	29	63952	Rear Bracket
14	63907	Actuator Handle	30	60060	Flat Washer, $\frac{5}{16}$ " (2)
15	41500	Spring Pin	31	60230	Hex Nut, $\frac{5}{16}$ " - 18 (2)
16	63942	Front Foot			

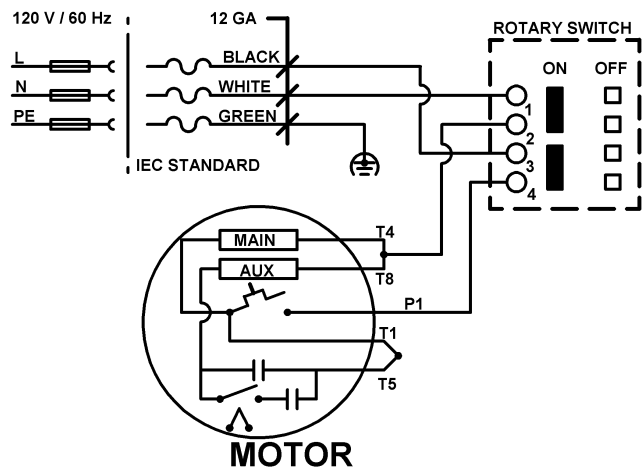
Electrical 120V 60 Hz



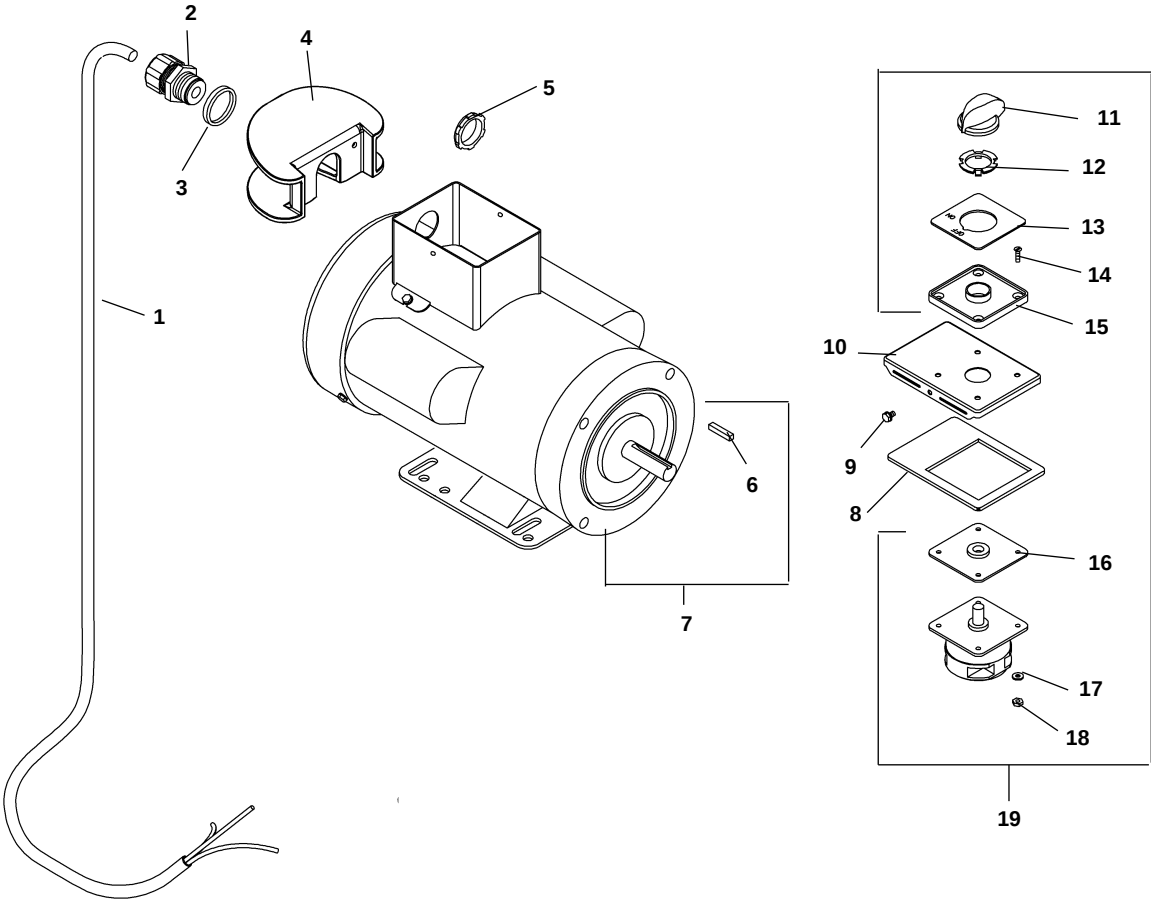
NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	63977	Warning Tag, GFCI	11	65077	Conduit Box Cover
2	65037	Power Cord with GFCI	12	65052	Switch Knob w/Screw
3	64037	Flat Washer	13	65057	Lock Nut
4	36732	Strain Relief	14	65062	Face Plate
5	63937	Cord Wrap	15	54162	Flat Hd. Machine Screw #6 - 32 x 1/2"
6	48052	Strain Relief Nut	16	65067	Mounting Plate
7	47677	Square Key, 1/8" x 3/16" x 1"	17	65087	Gasket
8	65042	Motor, 120V 60Hz 2 HP	18	65097	Flat Washer #6
9	65082	Conduit Box Gasket	19	61327	Hex Nut #6 - 32
10	65072	Screw	20	65092	Rotary Switch Assembly

Wiring Diagram



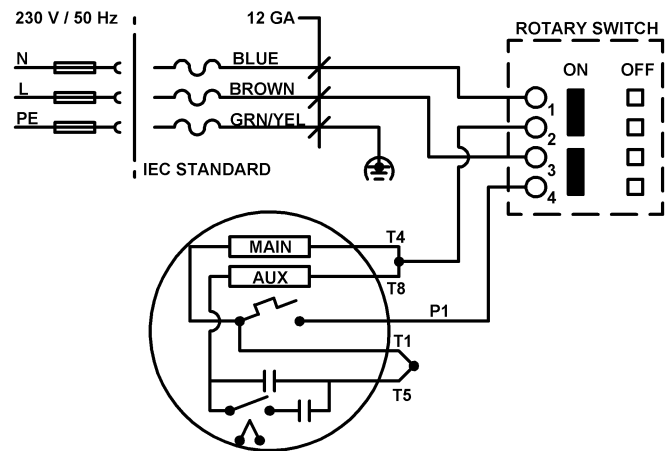
Electrical 220V 50 Hz Export



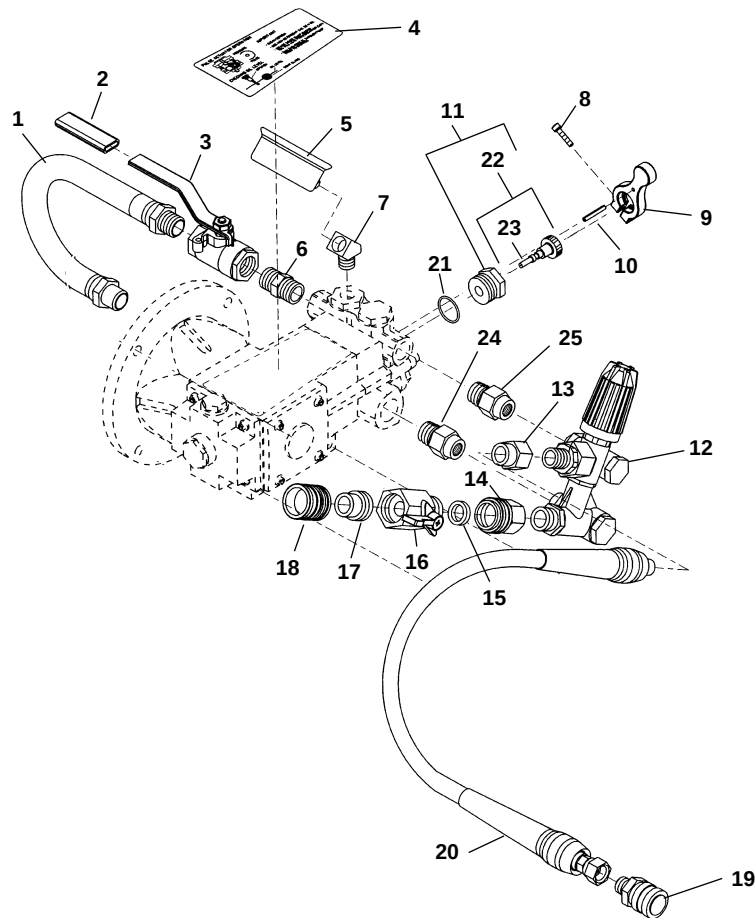
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	15707	Power Cord	11	65052	Switch Knob w/Screw
2	64037	Flat Washer	12	65057	Lock Nut
3	36732	Strain Relief	13	65062	Face Plate
4	63937	Cord Wrap	14	54162	Flat Hd. Machine Screw #6 - 32 x 1/2"
5	48052	Strain Relief Nut	15	65067	Mounting Plate
6	47677	Square Key, 1/8" x 3/16" x 1"	16	65087	Gasket
7	94452	Motor, 220V 50Hz 2 HP	17	65097	Flat Washer #6
8	65082	Conduit Box Gasket	18	61327	Hex Nut #6 - 32
9	65072	Screw	19	65092	Rotary Switch Assembly
10	65077	Conduit Box Cover			

Wiring Diagram

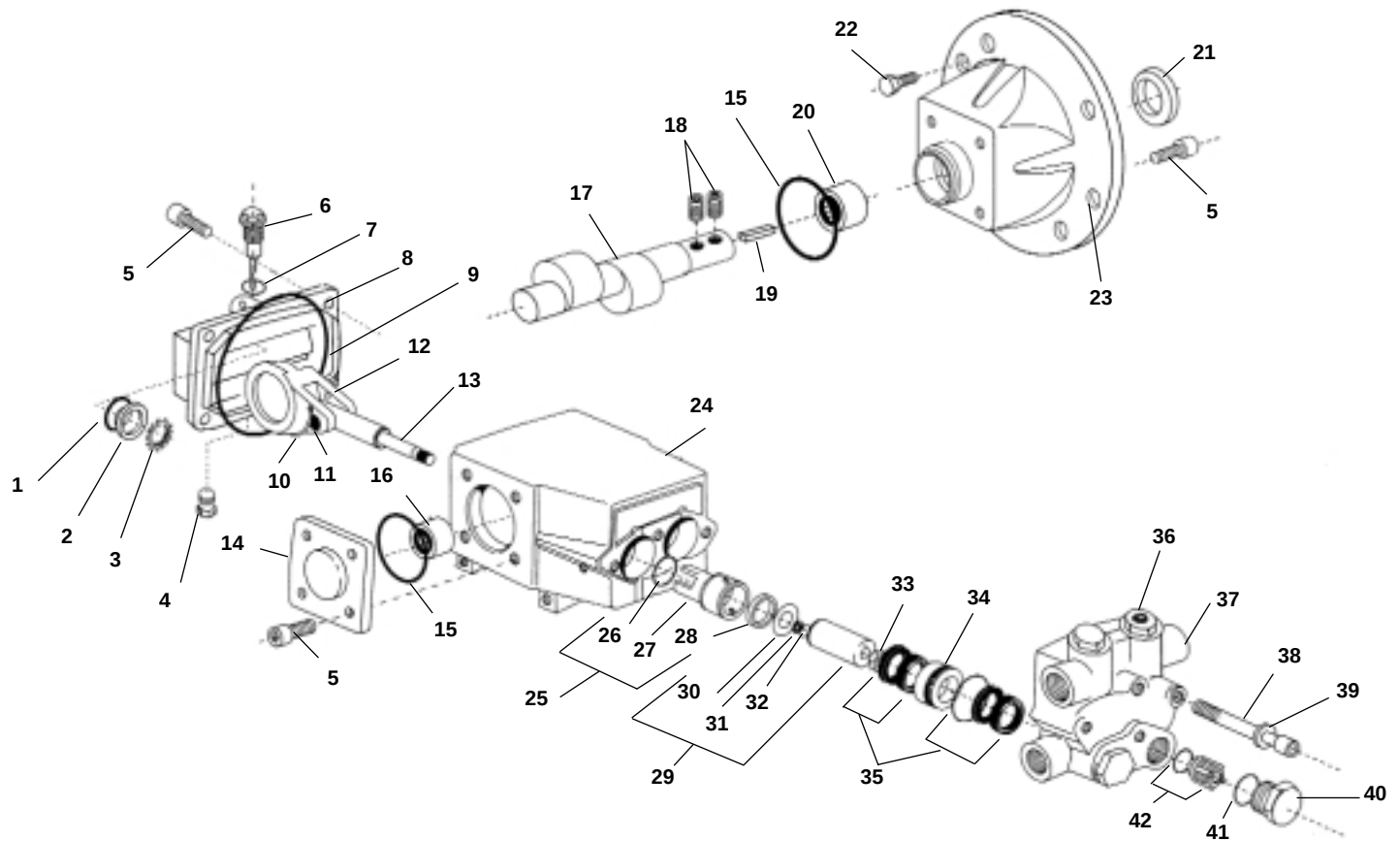


Flow Control System



Ref. No.	Catalog No.	Description
1	48132	Dampener Hose, 18"
2	64272	Pulse Valve Cover
3	48127	Pulse Control Valve
4	63967	Decal, Pulse Instruction
5	63902	Pressure Gauge
6	63912	Hex Nipple, 3/8" NPT
7	48107	Street El, 45 Degree
8	46375	Soc Hd Screw, #6 - 32 x 5/8"
9	63907	Actuator Handle
10	41500	Spring Pin
11	65192	Pulse Assembly
12	65202	Unloader Valve Assembly
13	65197	Reducer Coupling
14	65207	Hose Adapter
15	48287	Filter Washer
16	49582	Water Shut Off
17	48202	Hose Coupler Nipple
18	48197	Hose Coupler
19	48117	Female Quick Connect, 1/4" NPT Male
20	63927	Output Hose
21	65392	O-Ring
22	85872	Adjusting Screw w/Seals
23	85882	Seals for Adjusting Screw
24	70427	Inlet Adapter, 1/2" x 1/2"
25	70432	Outlet Adapter, 3/8" x 3/8"
	65102	Wash Wand Nozzle (Not Shown)
	70897	Chemical Injector (Not Shown)

Pump Assembly - Type 2



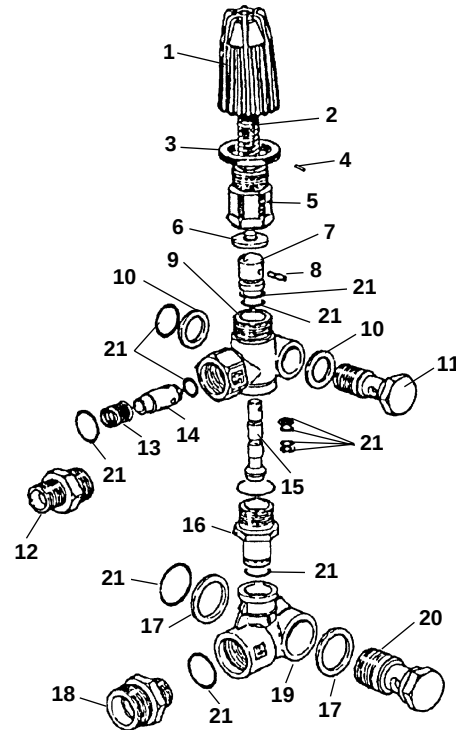
**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	88852	O-Ring	15	47707	O-Ring (2)	30	47762	Slinger Ring (2)
2	88847	Sight Glass	16	88822	Needle Bearing	31	47712	Backup Seal (2)
3	88857	Retainer	17	88877	Crankshaft	32	47697	O-Ring (2)
4	47782	Drain Plug, 1/4" NPT	18	47752	Set Screw, 1/4" - 28 x 1/4" (2)	33	88867	Retaining Nut (2)
5	40910	Soc. Hd. Cap Screw, 1/4" - 20 x 3/4" (12)	19	47677	Key, 1/8" x 3/16" x 1"	34	89007	Cup Retainer, (2)
6	47787	Dip Stick	20	47727	Needle Bearing	35	89002	Plunger Seal Kit
7	88452	O-Ring	21	47732	Seal	36	89017	Valve Cap, Ported, 1/4" NPT
8	88842	Crankcase Cover	22	75350	Hex Bolt, 3/8" -16 x 1 1/4" (4)	37	88792	Head
9	88447	O-Ring	23	47667	C-Flange End Cover	38	47747	Socket Head Cap Screw (4)
10	88837	Spring Retainer (2)	24	88812	Crankcase	39	88872	Lock Washer (4)
11	88827	Wrist Pin (2)	25	88437	Oil Seal Repair Kit	40	88412	Valve Cap (2)
12	88832	Connecting Rod (2)	26	88442	O-Ring (2)	41	88417	O-Ring (4)
13	88807	Plunger Rod (2)	27	88797	Insert (2)	42	88422	Valve Kit
14	88817	End Plate	28	88802	Oil Seal (2)			
			29	88997	Plunger Kit, (2)			

Unloader Valve - Early Style (Red Knob)

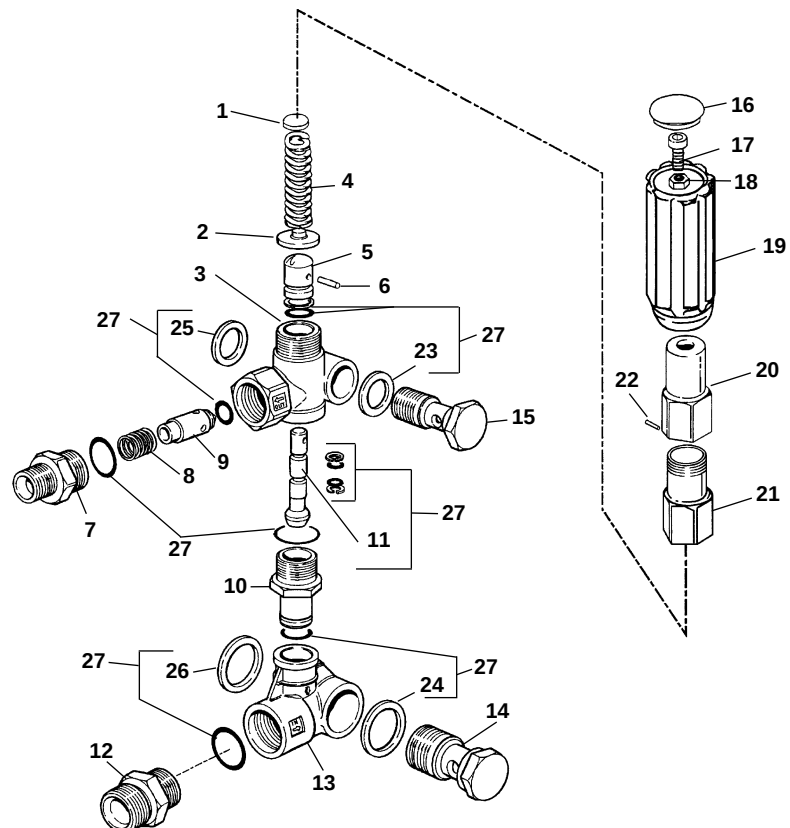
**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description
1	64277	Control Knob
2	64282	Spring
3	64287	Stop Ring
4	64292	Set Screw
5	64297	Spring Guide
6	64302	Spring Button
7	64307	Poppet
8	64312	Pin
9	64317	Valve Body
10	64322	Gasket (2)
11	64327	Outlet Port Adapter
12	64332	Poppet Retainer
13	64337	Spring
14	64342	Poppet
15	64347	Plunger
16	64352	By-Pass Spring
17	64357	Gasket
18	64362	Inlet Adapter
19	64367	By-Pass Adapter
20	64372	Port Adapter
21	64377	Seal Kit

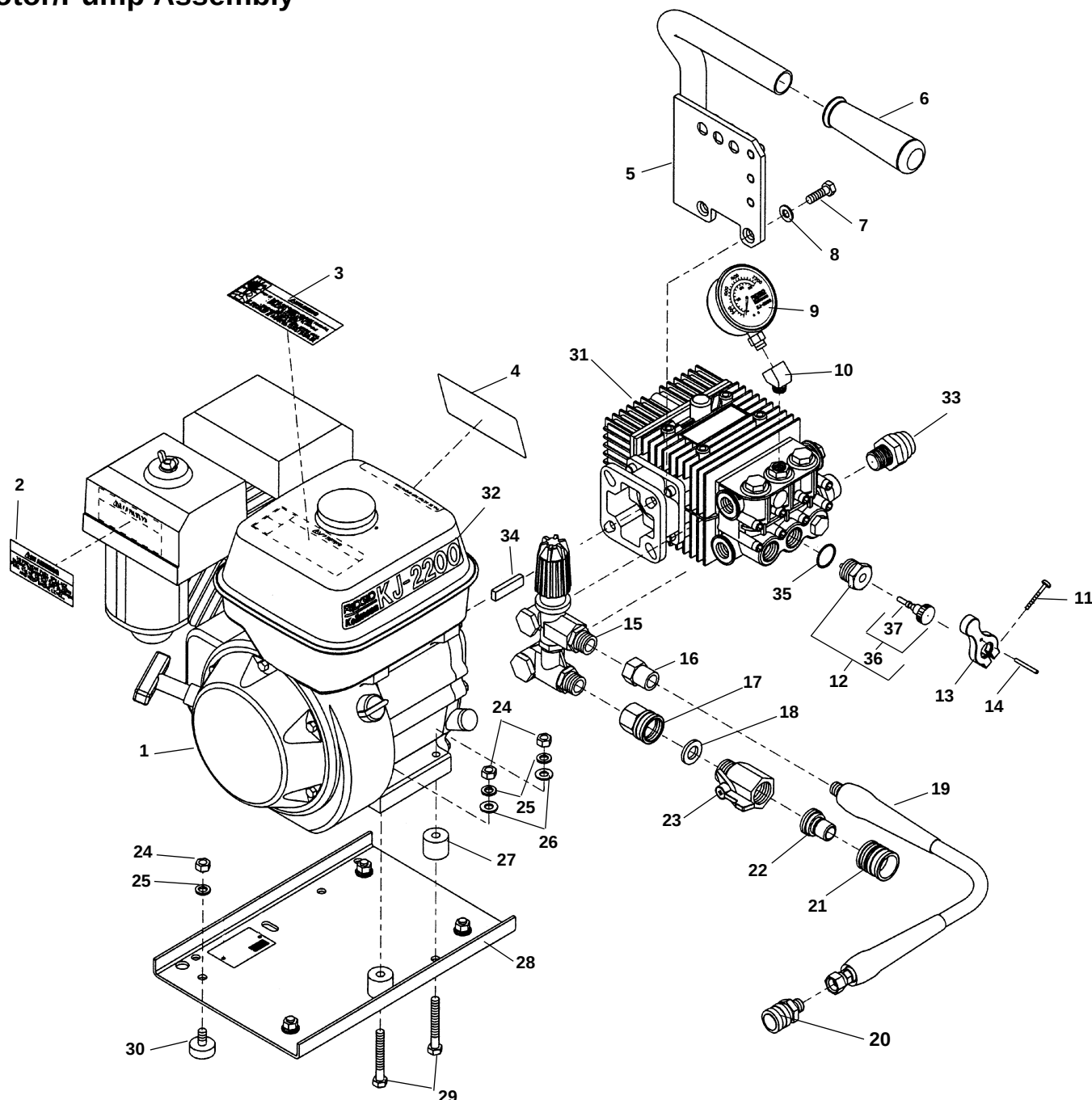


Unloader Valve - (Black Knob)

Ref. No.	Catalog No.	Description
—	65202	Unloader Valve Complete
1	85902	Plate
2	64302	Spring Button
3	64317	Body
4	85897	Spring
5	64307	Poppet
6	64312	Pin
7	64332	Outlet Poppet Retainer
8	64337	Spring
9	64342	Poppet
10	64352	By-Pass Seat
11	64347	Plunger
12	64362	Inlet Adapter
13	64367	Manifold
14	64372	Inlet Port Adapter
15	64327	Outlet Port Adapter
16	85892	Plug Cap
17	32270	Soc. Hd. Cap Screw $\frac{5}{16}$ " - 18 - $\frac{3}{4}$ "
18	61115	Hex Nut $\frac{5}{16}$ " x 18
19	85887	Control Knob (Black)
20	85907	Cap
21	85917	Spring Guide
22	85912	Pin
23	64322	Seal Washer
24	64357	Seal Washer
25	85922	Seal Washer
26	85927	Seal Washer
27	85932	Seal Kit



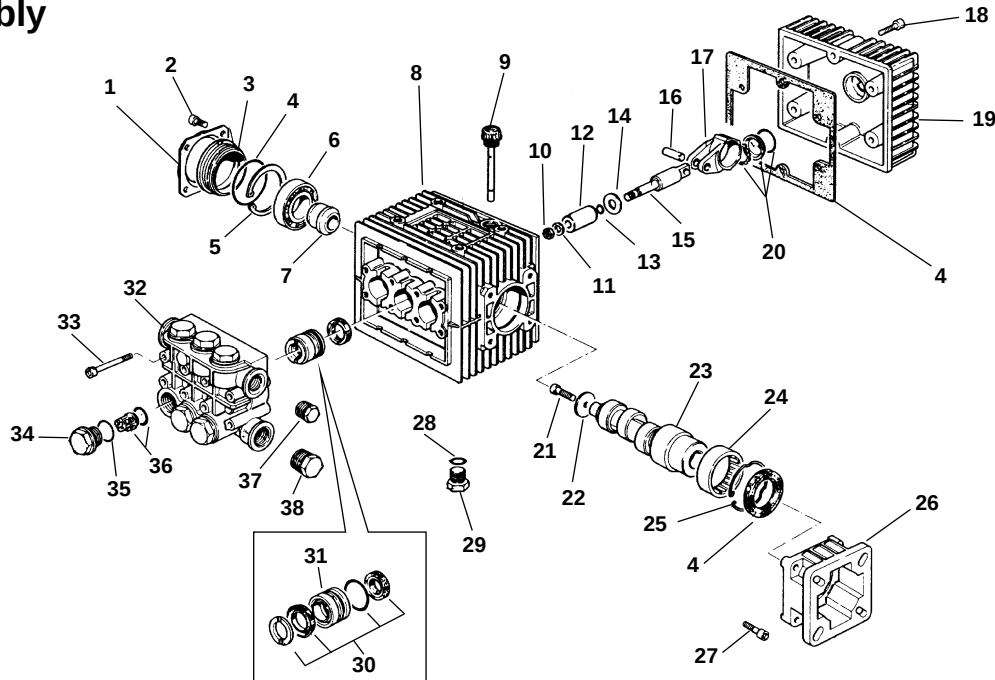
Motor/Pump Assembly



**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	49532	Gasoline Engine, 5.5 Hp	14	41500	Spring Pin	27	43852	Spacer (4)
2	60102	Decal, Fuel Warning	15	65202	Unloader Valve Complete	28	48182	Base Plate
3	49562	Decal, Warning	16	65197	Reducer Coupling	29	49597	Hex Screw $\frac{5}{16}$ " – 18 x $2\frac{1}{4}$ " (4)
4	65182	Decal, Pulse Actuator	17	65207	Hose Adapter	30	48187	Rubber Foot (4)
5	65177	Handle	18	48287	Filter Washer	31	65217	Pump Complete
6	60827	Hand Grip	19	65212	Output Hose	32	65187	Decal, Model No. KJ-2200
7	60380	Hex Screw $\frac{3}{8}$ " – 16 x $1\frac{1}{4}$ " (4)	20	48117	Quick Connect (Male 48487)	33	65412	Thermal Protector
8	63977	Lock Washer $\frac{3}{8}$ " (4)	21	48197	Hose Coupler	34	66297	Key
9	65137	Pressure Gauge, KJ-2200	22	48202	Hose Coupler Nipple	35	65392	O-Ring
10	48107	Street EL, 45°	23	49582	Water Shut-off	36	85872	Adjusting Screw w/Seals
11	46375	Soc. Head Screw #6 – 32 x $\frac{5}{8}$ "	24	60230	Hex Nut $\frac{5}{16}$ " – 18 (8)	37	85882	Seals for Adjusting Screw
12	85862	Pulse Assembly, KJ-2200	25	60080	Lock Washer $\frac{3}{8}$ " (8)		65117	Wash Wand Nozzle (Not Shown)
13	63907	Actuator Handle	26	60060	Flat Washer $\frac{3}{8}$ " (4)		70902	Chemical Injector (Not Shown)

Pump Assembly

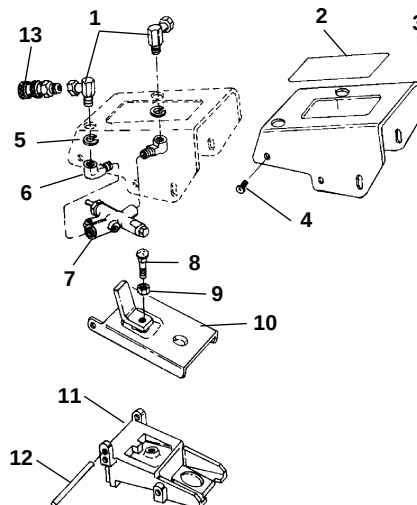


**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
—	65217	Pump Assembly	13	65282	O-Ring (3)	26	65347	Mounting Flange
1	65222	Bearing Retainer	14	65287	Slinger (3)	27	65352	Bolt (4)
2	65227	Bolt (4)	15	65292	Lower Plunger (3)	28	65357	O-Ring
3	65232	Bearing Cover	16	65297	Wrist Pin (3)	29	65362	Drain Plug
4	65237	Crankcase Seal Kit (4 pcs)	17	65302	Connecting Rod (3)	30	65367	Plunger Seal Kit (3 sets)
5	65242	Retaining Ring	18	65307	Bolt, M5 x 20 (6)	31	65372	Cup Retainer (3)
6	65247	Ball Bearing	19	65312	Crankcase Cover	32	65377	Pump Head
7	65252	Shaft Retainer	20	65317	Sight Glass w/O-Ring & Retainer	33	65382	Bolts, M6 x 60 (8)
8	65257	Crankcase	21	65322	Bolt	34	65387	Valve Cap (6)
9	65262	Dipstick	22	65327	Washer	35	65392	O-Ring (6)
10	65267	Nut (3)	23	65332	Crankshaft	36	65397	Valve Kit (6 Valves, 6 O-Rings)
11	65272	Plunger Seal (3)	24	65337	Roller Bearing	37	65402	Port Plug, Small
12	65277	Plunger (3)	25	65342	Retaining Ring	38	65407	Port Plug, Large

FV-1 Foot Valve

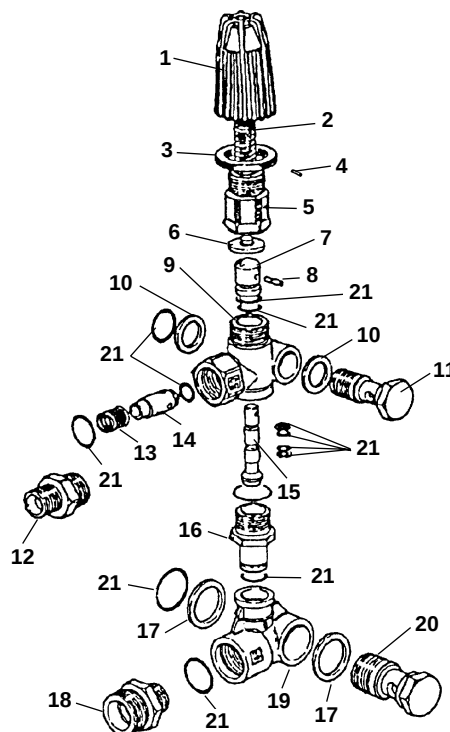
Ref. No.	Catalog No.	Description
—	48157	Foot Valve Complete, FV-1
1	49787	Elbow w/Swivel, 1/4" NPT (2)
2	49777	Decal, Model No.
3	49772	Cover
4	36787	Screw, Self Tapping, #10 (4)
5	49792	Lock Washer 9/16" (2)
6	49797	Street EL, 1/4" NPT(2)
7	49782	Valve Assembly
8	49802	Carriage Bolt, 1/4" NPT
9	47297	Lock Nut, 1/2" - 20
10	49767	Foot Pedal
11	36737	Base
12	36747	Pivot Pin
13	48117	Quick Connect – Female



Unloader Valve - Early Style (Red Knob)

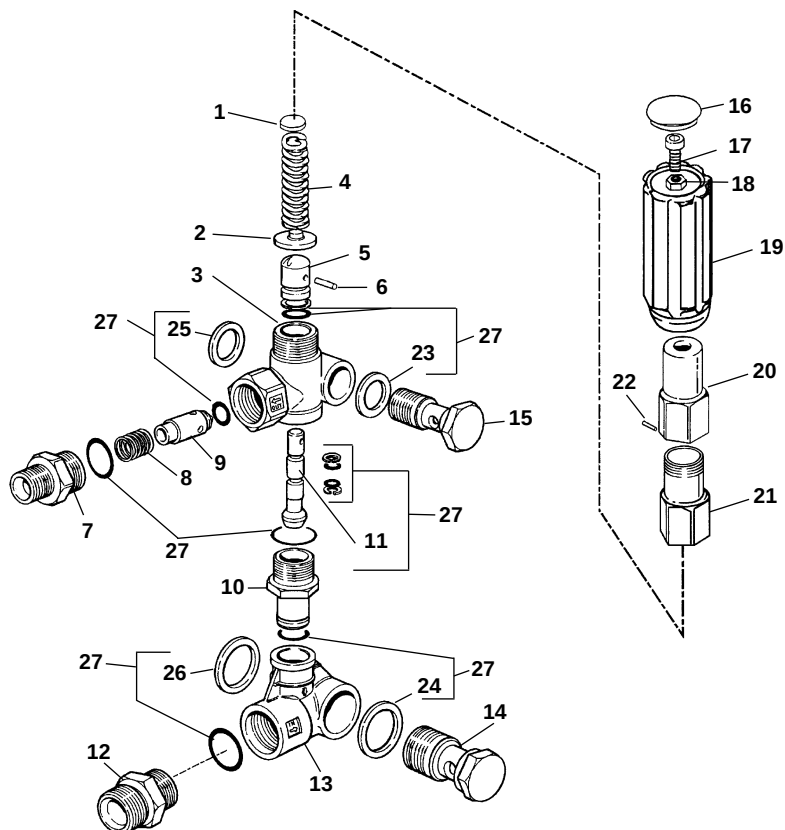
NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.

Ref. No.	Catalog No.	Description
1	64277	Control Knob
2	64282	Spring
3	64287	Stop Ring
4	64292	Set Screw
5	64297	Spring Guide
6	64302	Spring Button
7	64307	Poppet
8	64312	Pin
9	64317	Valve Body
10	64322	Gasket (2)
11	64327	Outlet Port Adapter
12	64332	Poppet Retainer
13	64337	Spring
14	64342	Poppet
15	64347	Plunger
16	64352	By-Pass Spring
17	64357	Gasket
18	64362	Inlet Adapter
19	64367	By-Pass Adapter
20	64372	Port Adapter
21	64377	Seal Kit

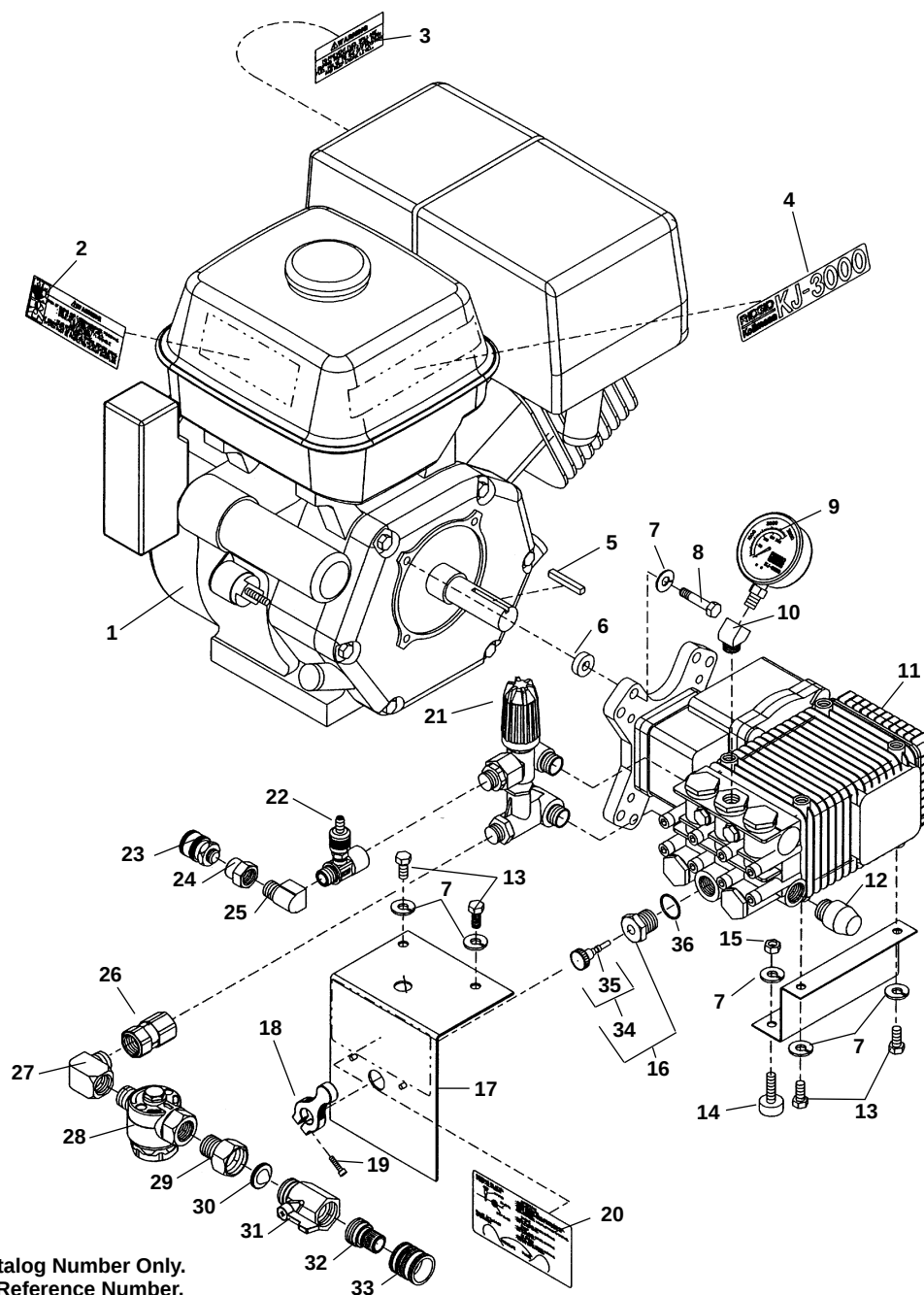


Unloader Valve - (Black Knob)

Ref. No.	Catalog No.	Description
—	65202	Unloader Valve Complete
1	85902	Plate
2	64302	Spring Button
3	64317	Body
4	85897	Spring
5	64307	Poppet
6	64312	Pin
7	64332	Outlet Poppet Retainer
8	64337	Spring
9	64342	Poppet
10	64352	By-Pass Seat
11	64347	Plunger
12	64362	Inlet Adapter
13	64367	Manifold
14	64372	Inlet Port Adapter
15	64327	Outlet Port Adapter
16	85892	Plug Cap
17	32270	Soc. Hd. Cap Screw $\frac{5}{16}$ " - 18 - $\frac{3}{4}$ "
18	61115	Hex Nut $\frac{5}{16}$ " x 18
19	85887	Control Knob (Black)
20	85907	Cap
21	85917	Spring Guide
22	85912	Pin
23	64322	Seal Washer
24	64357	Seal Washer
25	85922	Seal Washer
26	85927	Seal Washer
27	85932	Seal Kit



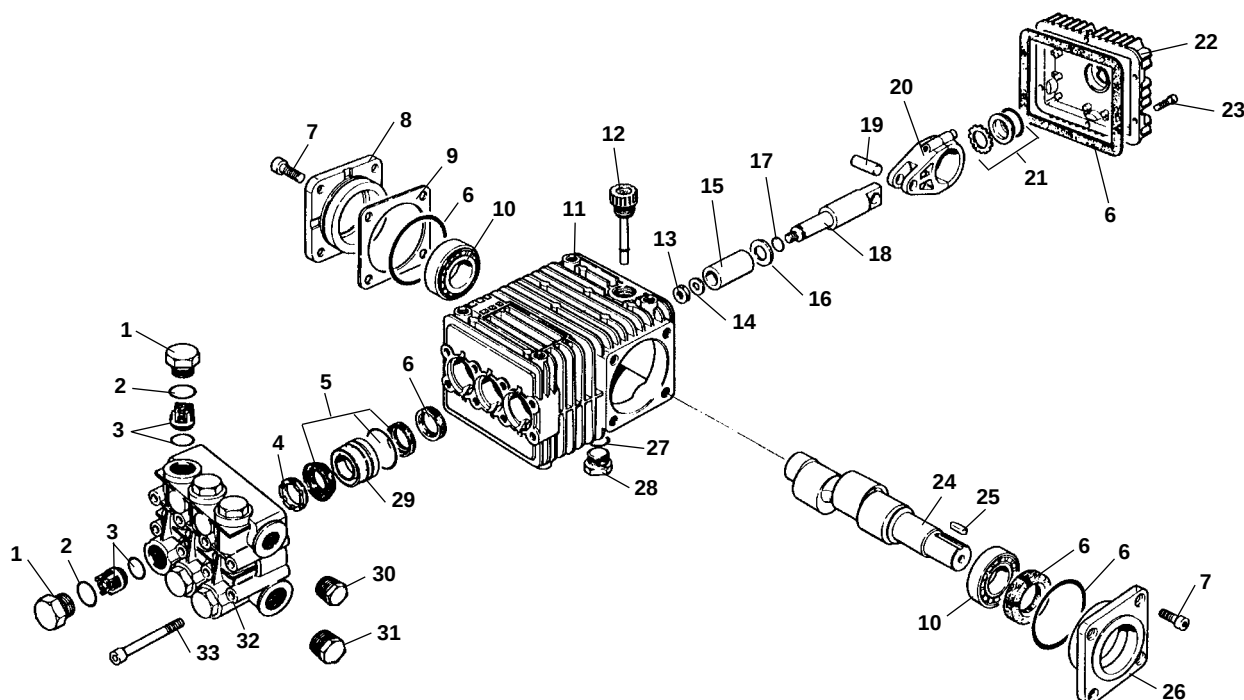
Motor/Pump Assembly



**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	66092	Gasoline Engine, 13 Hp Manual Start	13	66132	Hex Hd. Cap Scr., Metric M8-10 (4)	26	66867	Coupling, 1/2" NPT
	66097	Gasoline Engine, 13 Hp Electric Start	14	48187	Rubber Foot (4)	27	48147	Street EL, 90 Degree, 1/2" NPT
2	49562	Decal, Warning	15	60230	Nut (4)	28	66167	Inlet Filter
3	60102	Decal, Fuel Warning	16	85867	Pulse Actuator Assembly	29	49587	Hose Adapter w/Washer
4	66102	Decal, Model No.. KJ-3000	17	66137	Panel	30	48287	Filter Washer
5	66107	Key, 3/4" x 1/4" x 1"	18	63907	Pulse Actuator Handle	31	49582	Water Shut-Off
6	66112	Spacer, Gearbox Mount	19	46375	Soc. Hd. Cap Screw, #6 - 32 x 3/8"	32	48202	Hose Coupler Nipple
7	60080	Lock Washer (8)	20	66142	Decal, Instruction	33	48197	Hose Coupler
8	75350	Hex Screw, 3/8" - 16 x 1 1/4" (4)	21	65202	Unloader Valve	34	85877	Adjusting Screw w/Seals
9	66117	Pressure Gauge, KJ-3000	22	66147	Chemical Injector	35	85882	Seals for Adjusting Screw
10	48107	Street EL, 45 Degree	23	48117	Quick Connect - Female	36	65392	O-Ring
11	66122	Pump Complete, 3000 PSI	24	66157	Reducer Adapter		65127	Wash Wand Nozzle (Not Shown)
12	65412	Thermal Relief Valve	25	66162	Street EL, 90 Degree			

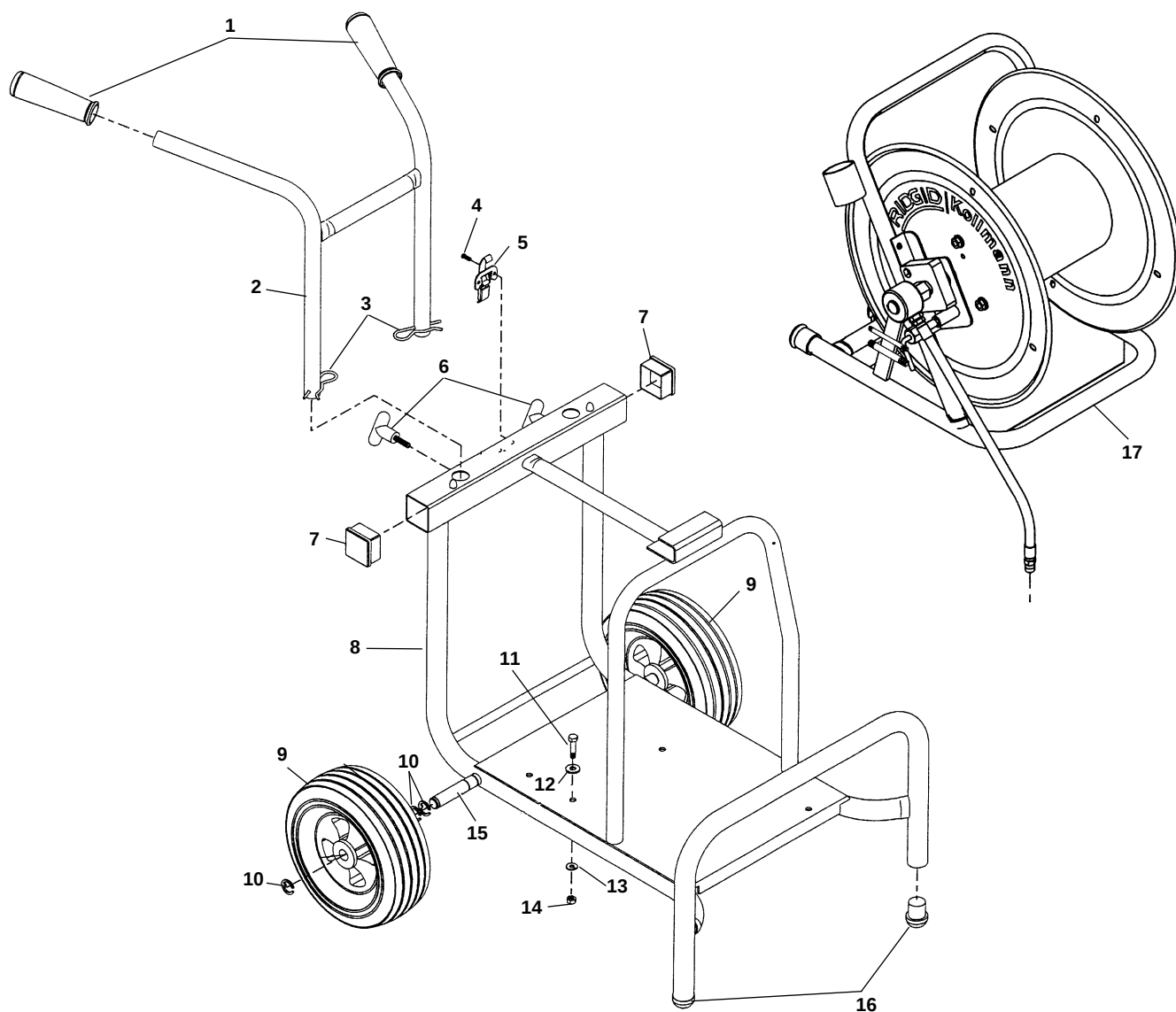
Pump Assembly



**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
—	66122	Pump Assembly	12	65262	Dipstick	23	66287	Soc. Head Cap Screw (6)
1	66192	Valve Cap (6)	13	66242	Nut (3)	24	66292	Crankshaft
2	65392	O-Ring (6)	14	66247	Plunger Seal Washer (3)	25	66297	Key
3	66197	Valve Kit (6 Valves, 6 O-Rings)	15	66252	Plunger (3)	26	66302	End Cover, Shaft
4	66202	Cup Spreader (3)	16	66257	Slinger (3)	27	65357	O-Ring
5	66207	Plunger Seal Kit (3 Sets)	17	66262	O-Ring (3)	28	65362	Drain Plug
6	66212	Crankcase Seal Kit (7 pcs)	18	66267	Lower Plunger (3)	29	66307	Cup Retainer (3)
7	66217	Soc. Head Cap Screw (8)	19	66272	Wrist Pin (3)	30	65402	Port Plug, Small
8	66222	End Cover	20	66277	Connecting Rod (3)	31	65407	Port Plug, Large
9	66227	Shim Set	21	65317	Sight Glass/O-Ring/Retainer	32	66312	Pump Head
10	66232	Ball Bearing (2)	22	66282	Crankcase Cover	33	66317	Soc. Head Cap Screw (8)
11	66237	Crankcase						

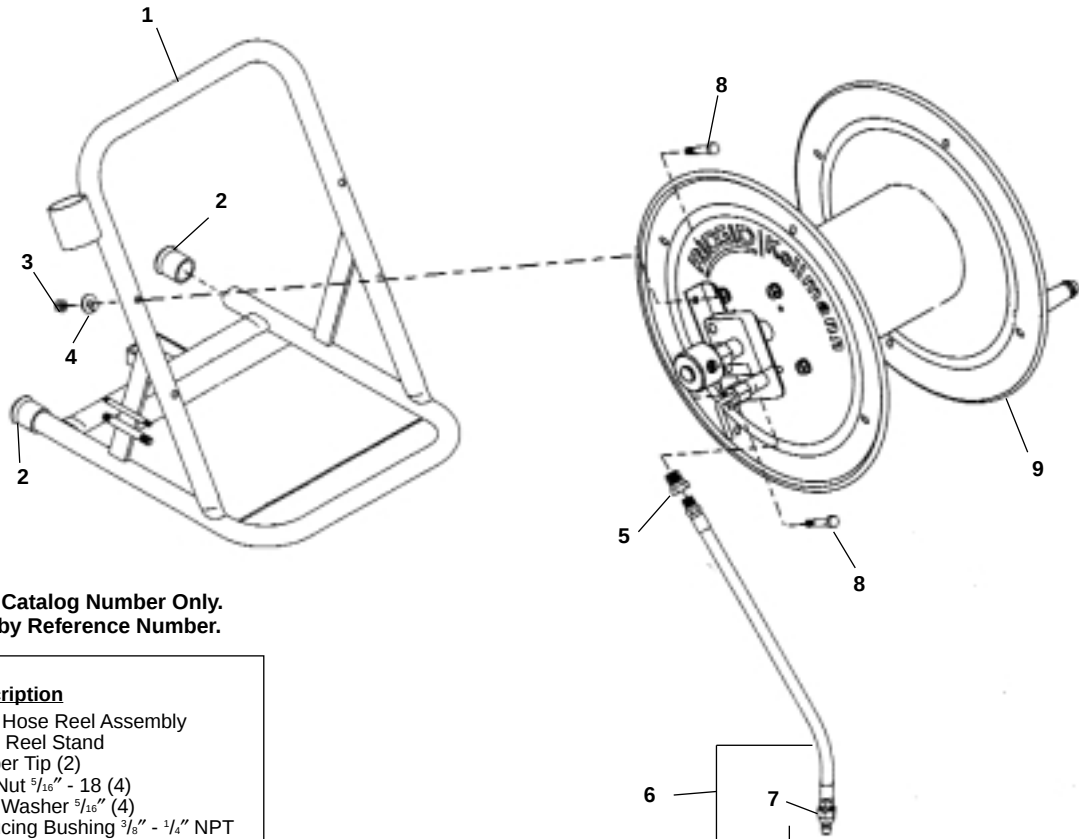
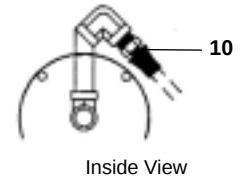
Cart with Hose Reel



**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description
1	60827	Hand Grip (2)
2	66017	Handle Assembly
3	60677	Hairpin (2)
4	27017	Screw, Self Tapping #12-24 x 3/4" (2)
5	47972	Latch
6	60622	Mounting Knob (2)
7	66027	Square Plug (2)
8	66032	Frame
9	23597	Wheel (2)
10	60050	Retaining Ring (6)
11	43992	Hex Screw 3/8"-16 x 2" (4)
12	59970	Flat Washer 3/8" (4)
13	60085	Lock Washer 3/8" (4)
14	60395	Hex Nut 3/8" (4)
15	66037	Axle
16	61470	Rubber Plug (2)
17	64862	H-38 Hose Reel Assembly

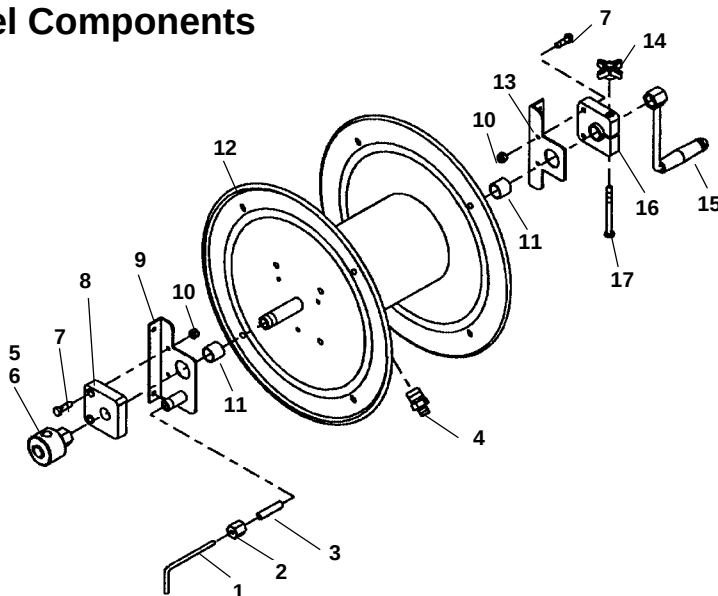
H-38 Reel Assembly



**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

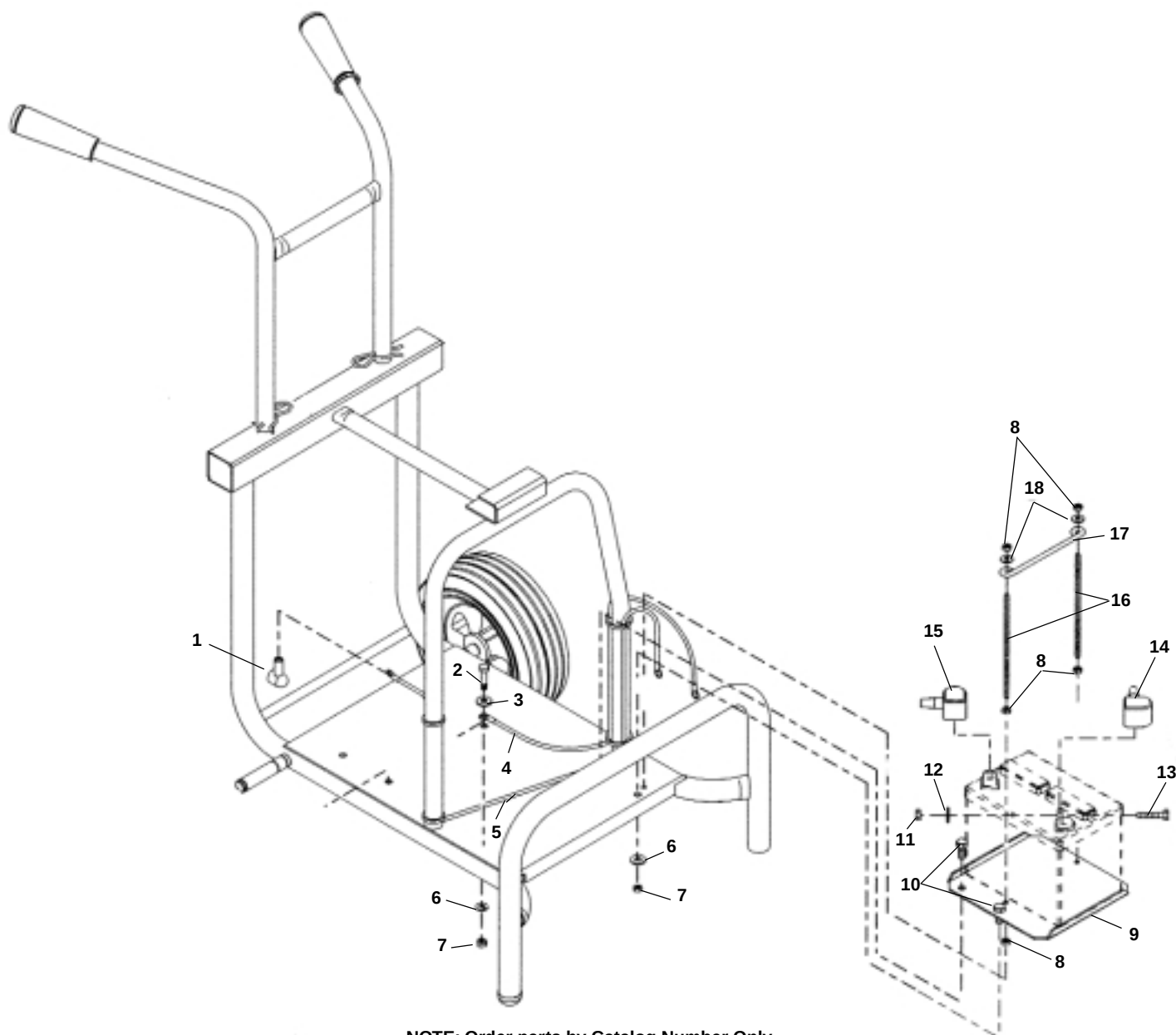
Ref. No.	Catalog No.	Description
—	64862	H-38 Hose Reel Assembly
1	66022	Hose Reel Stand
2	37962	Rubber Tip (2)
3	60230	Hex Nut $\frac{5}{16}$ " - 18 (4)
4	60080	Lock Washer $\frac{5}{16}$ " (4)
5	48152	Reducing Bushing $\frac{3}{8}$ " - $\frac{1}{4}$ " NPT
6	66047	Output Hose Assembly
7	48002	Quick Connect - Male
8	43847	Hex Screw $\frac{5}{16}$ " - 18 x $1\frac{1}{2}$ " (4)
9	48022	Hose Reel
10	35275	Spring

Reel Components



Ref. No.	Catalog No.	Description
—	48022	Hose Reel COMPLETE
1	67677	Reel Lock
2	67682	Lock Nut
3	67687	Sleeve
4	67692	Reducer Bushing, $\frac{1}{2}$ " - $\frac{1}{4}$ " NPT M
5	67697	Swivel Connector
6	67702	Service Kit, Swivel
7	85910	Hex Screw, $\frac{5}{16}$ " - 18 x 1" (2)
8	67707	Bearing Block, Plain
9	67712	Bracket, Lock Side
10	75110	Hex Nut, $\frac{5}{16}$ " - 18 (2)
11	67717	Spacer (2)
12	67722	Spool
13	67727	Bracket, Plain
14	67732	Knob, Drag Brake
15	67737	Crank
16	67742	Bearing Block, Drag
17	67747	Hex Screw, $\frac{5}{16}$ " - 18 x $3\frac{1}{2}$ "

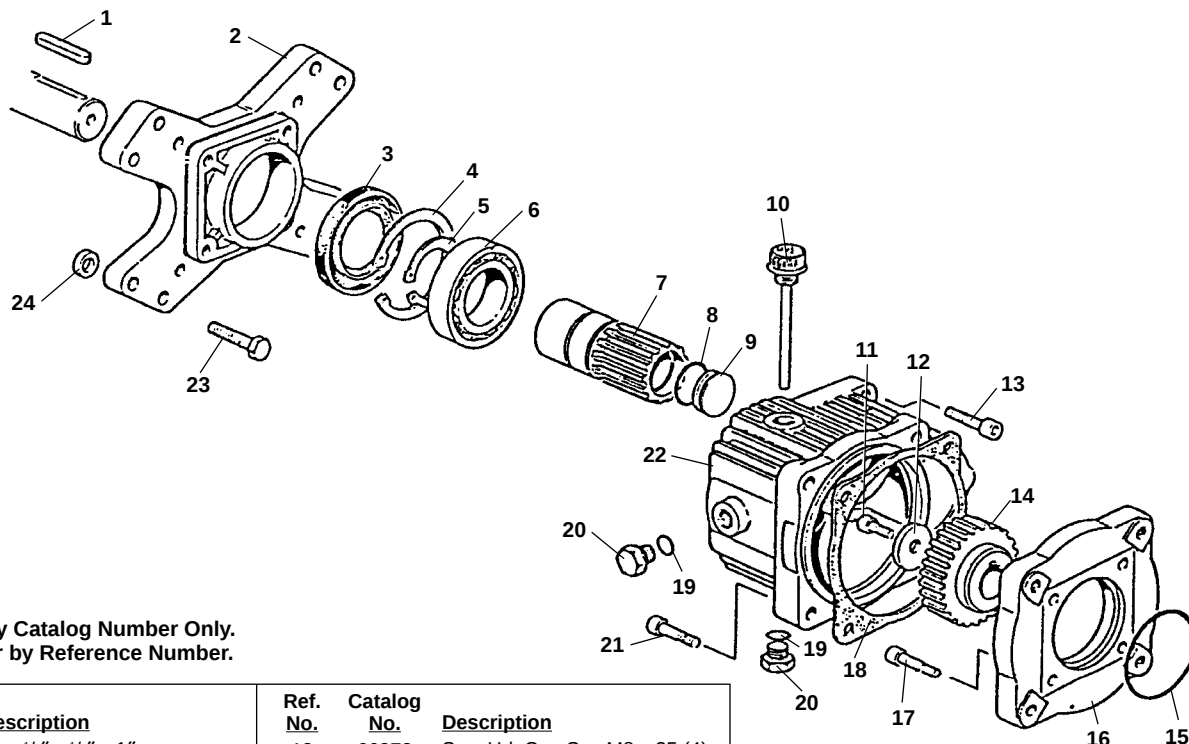
Electric Start Components



**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description
1	66042	Insulator Cap
2	43992	Hex Screw $\frac{3}{8}$ " - 16 x 2" (2)
3	59970	Flat Washer $\frac{3}{8}$ " (2)
4	66082	Battery Cable, Negative
5	66087	Battery Cable, Positive
6	60085	Lock Washer $\frac{3}{8}$ " (2)
7	60395	Hex Nut $\frac{3}{8}$ " - 16 (2)
8	80370	Hex Nut $\frac{1}{4}$ " - 20 (6)
9	66072	Battery Tray
10	45470	Hex Screw $\frac{3}{8}$ " - 16 x 1" (2)
11	60230	Hex Nut $\frac{5}{16}$ " - 18 (2)
12	60080	Lock Washer $\frac{5}{16}$ " (2)
13	88045	Hex Screw $\frac{5}{16}$ " - 18 x $\frac{7}{8}$ " (2)
14	66067	Terminal Insulator - Black
15	66077	Terminal Insulator - Red
16	66062	Tie Down Rod $\frac{1}{4}$ " - 20 (2)
17	66057	Battery Strap
18	84720	Flat Washer $\frac{1}{4}$ " (2)

Gearbox

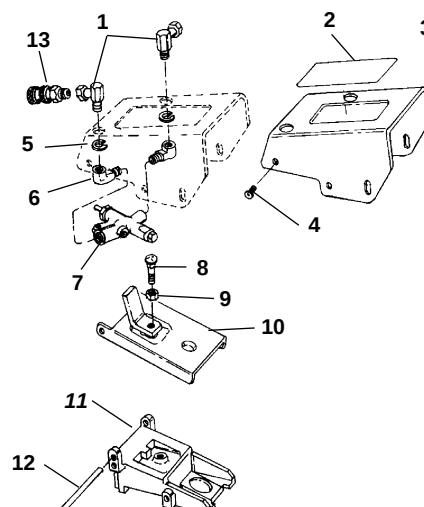


**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	66107	Key, $\frac{1}{4}$ " x $\frac{1}{4}$ " x 1"	13	66372	Soc. Hd. Cap Scr. M8 x 25 (4)
2	66322	Mounting Flange	14	66377	Gear
3	66327	Shaft Seal	15	66382	O-Ring
4	66332	Retaining Ring	16	66387	Flange
5	66337	Retaining Ring	17	66392	Soc. Hd. Cap Scr. M8 x 30 (4)
6	66342	Ball Bearing	18	66397	Gasket
7	66347	Gear Shaft	19	65357	O-Ring (2)
8	66352	O-Ring	20	65362	Drain Plug (2)
9	66357	Plug	21	66402	Soc. Hd. Cap Scr. M10 x 25 (4)
10	66782	Dipstick	22	66407	Housing
11	66362	Soc. Hd. Cap Scr. M6 x 18	23	75350	Hex Screw, $\frac{3}{8}$ " - 16 x $1\frac{1}{4}$ " (4)
12	66367	Washer	24	66112	Spacer, Gearbox Mount (4)

FV-1 Foot Valve

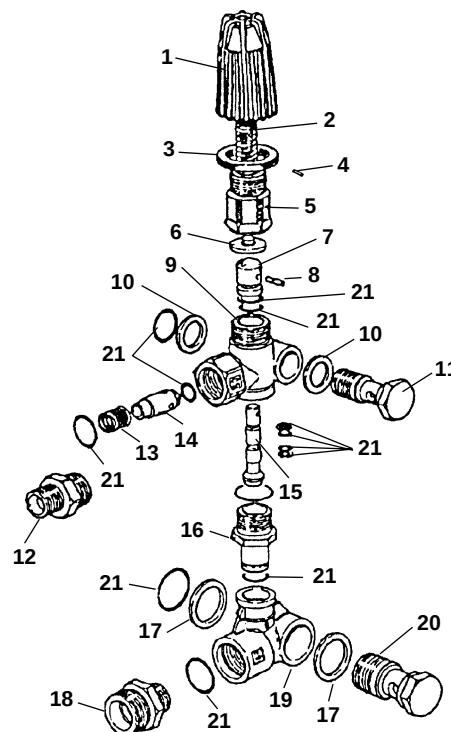
Ref. No.	Catalog No.	Description
—	48157	Foot Valve Complete, FV-1
1	49787	Elbow w/Swivel, $\frac{1}{4}$ " NPT (2)
2	49777	Decal, Model No.
3	49772	Cover
4	36787	Screw, Self Tapping, #10 (4)
5	49792	Lock Washer $\frac{3}{16}$ " (2)
6	49797	Street EL, $\frac{1}{4}$ " NPT(2)
7	49782	Valve Assembly
8	49802	Carriage Bolt, $\frac{1}{4}$ " NPT
9	47297	Lock Nut, $\frac{1}{4}$ " - 20
10	49767	Foot Pedal
11	36737	Base
12	36747	Pivot Pin
13	48117	Quick Connect – Female



Unloader Valve - Early Style (Red Knob)

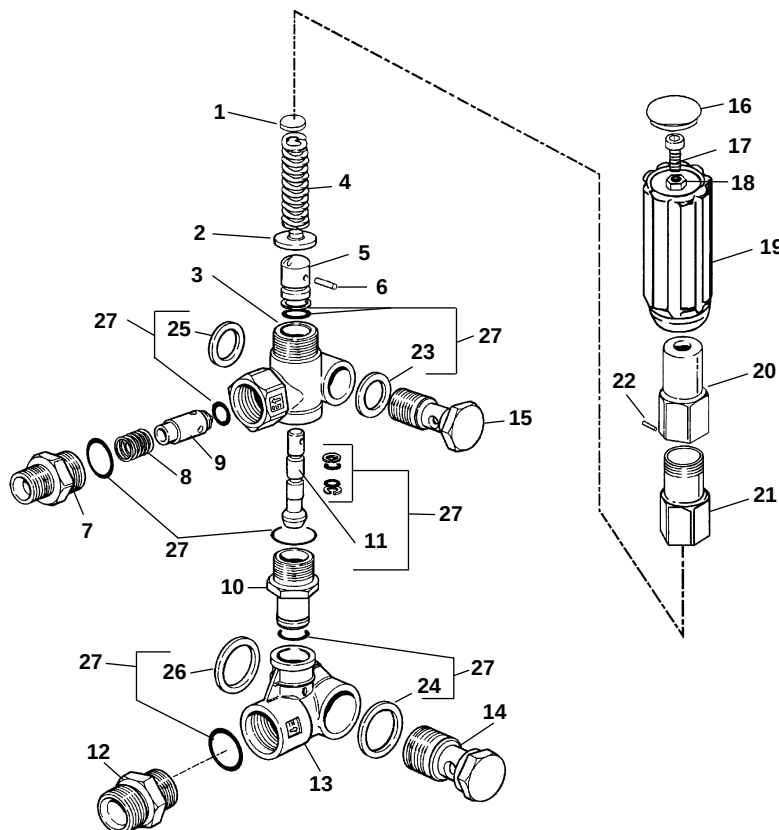
**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

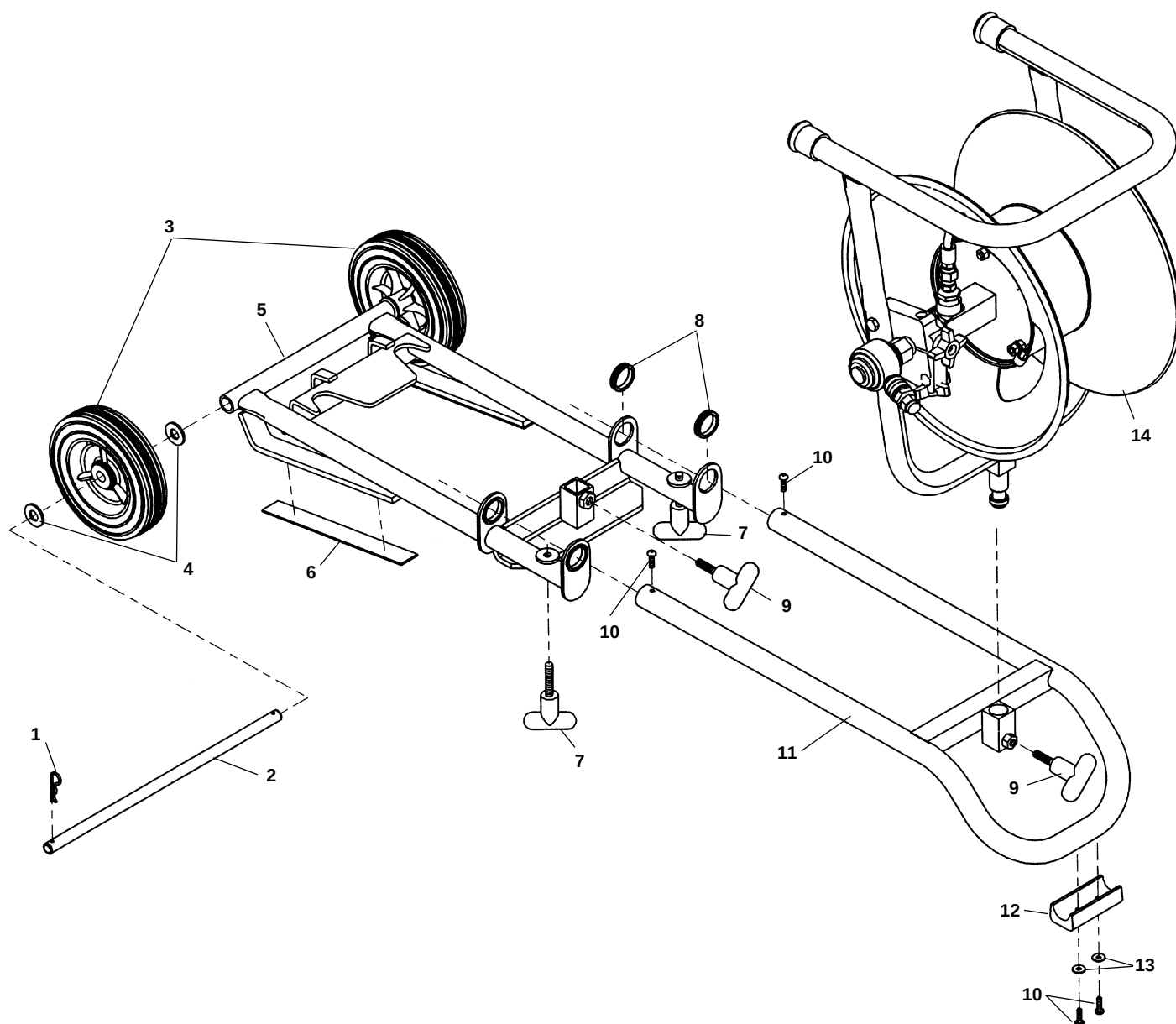
Ref. No.	Catalog No.	Description
1	64277	Control Knob
2	64282	Spring
3	64287	Stop Ring
4	64292	Set Screw
5	64297	Spring Guide
6	64302	Spring Button
7	64307	Poppet
8	64312	Pin
9	64317	Valve Body
10	64322	Gasket (2)
11	64327	Outlet Port Adapter
12	64332	Poppet Retainer
13	64337	Spring
14	64342	Poppet
15	64347	Plunger
16	64352	By-Pass Spring
17	64357	Gasket
18	64362	Inlet Adapter
19	64367	By-Pass Adapter
20	64372	Port Adapter
21	64377	Seal Kit



Unloader Valve - (Black Knob)

Ref. No.	Catalog No.	Description
—	65202	Unloader Valve Complete
1	85902	Plate
2	64302	Spring Button
3	64317	Body
4	85897	Spring
5	64307	Poppet
6	64312	Pin
7	64332	Outlet Poppet Retainer
8	64337	Spring
9	64342	Poppet
10	64352	By-Pass Seat
11	64347	Plunger
12	64362	Inlet Adapter
13	64367	Manifold
14	64372	Inlet Port Adapter
15	64327	Outlet Port Adapter
16	85892	Plug Cap
17	32270	Soc. Hd. Cap Screw $\frac{5}{16}$ " - 18 - $\frac{3}{4}$ "
18	61115	Hex Nut $\frac{5}{16}$ " x 18
19	85887	Control Knob (Black)
20	85907	Cap
21	85917	Spring Guide
22	85912	Pin
23	64322	Seal Washer
24	64357	Seal Washer
25	85922	Seal Washer
26	85927	Seal Washer
27	85932	Seal Kit



Cart with Hose Reel


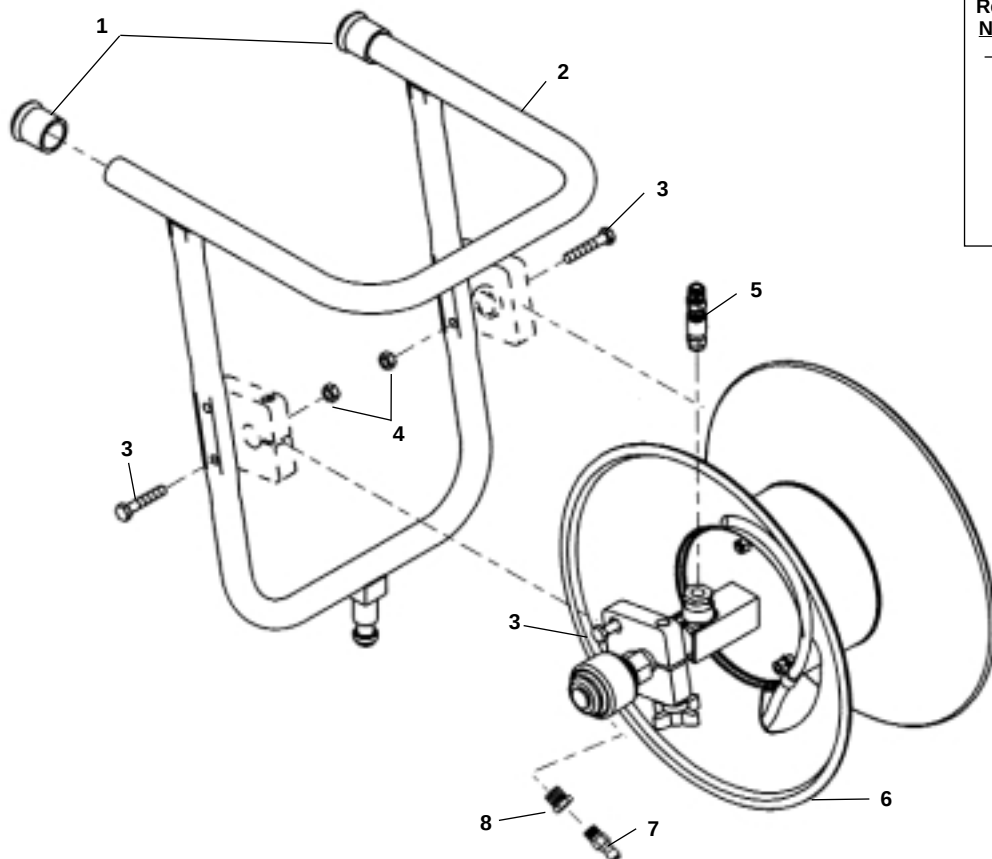
**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
—*	64697	H-10 Cart Assembly	8	63987	Bushing (4)
1	64382	Hairpin Clip (2)	9	60622	Knob, T-Handle
2	63997	Axle	10	59990	Screw
3	64002	Wheel	11	64012	Cart Handle
4	60847	Washer	12	64017	Handle Foot
5	63982	Cart Base	13	84720	Washer
6	63992	Pad (2)	14	62882	H-5 Hose Reel Assembly
7	64007	Knob, T-Handle			

* Requires the H-10A Adapter Kit, #62897, to mount the KJ-1750.

H-5 Hose Reel Assembly

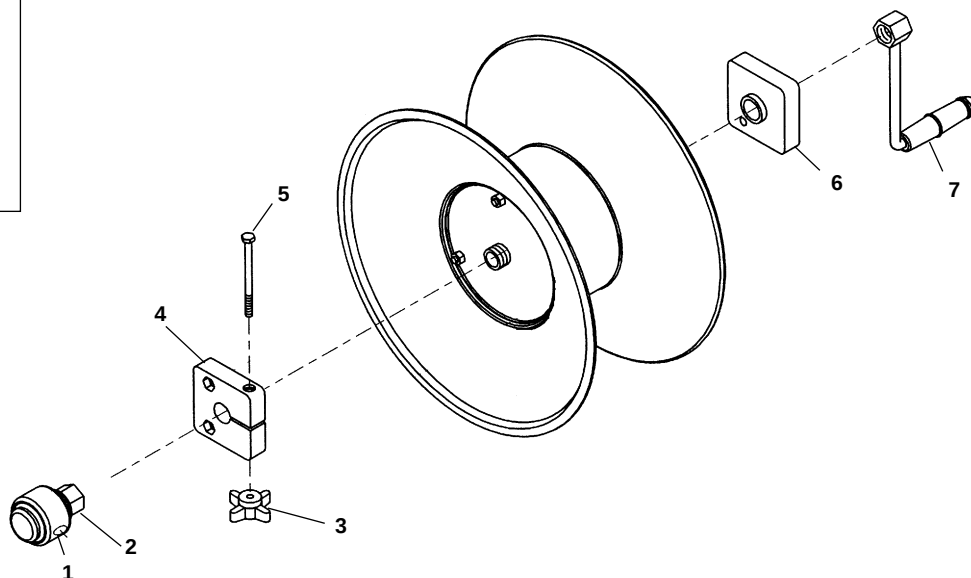
**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**



Ref. No.	Catalog No.	Description
—	62882	H-5 Hose Reel Assembly
1	37962	Rubber Foot
2	64022	Frame, Hose Reel
3	89870	Hex Screw, $\frac{5}{16}$ " - 18 x $1\frac{3}{4}$ "
4	54672	Hex Lock Nut, $\frac{5}{16}$ " - 18
5	64032	Hex Nipple, $\frac{1}{4}$ "
6	64027	Hose Reel COMPLETE
7	47987	Reducer Bushing, $\frac{3}{8}$ M x $\frac{1}{4}$ F
8	48487	Quick Connect, Male

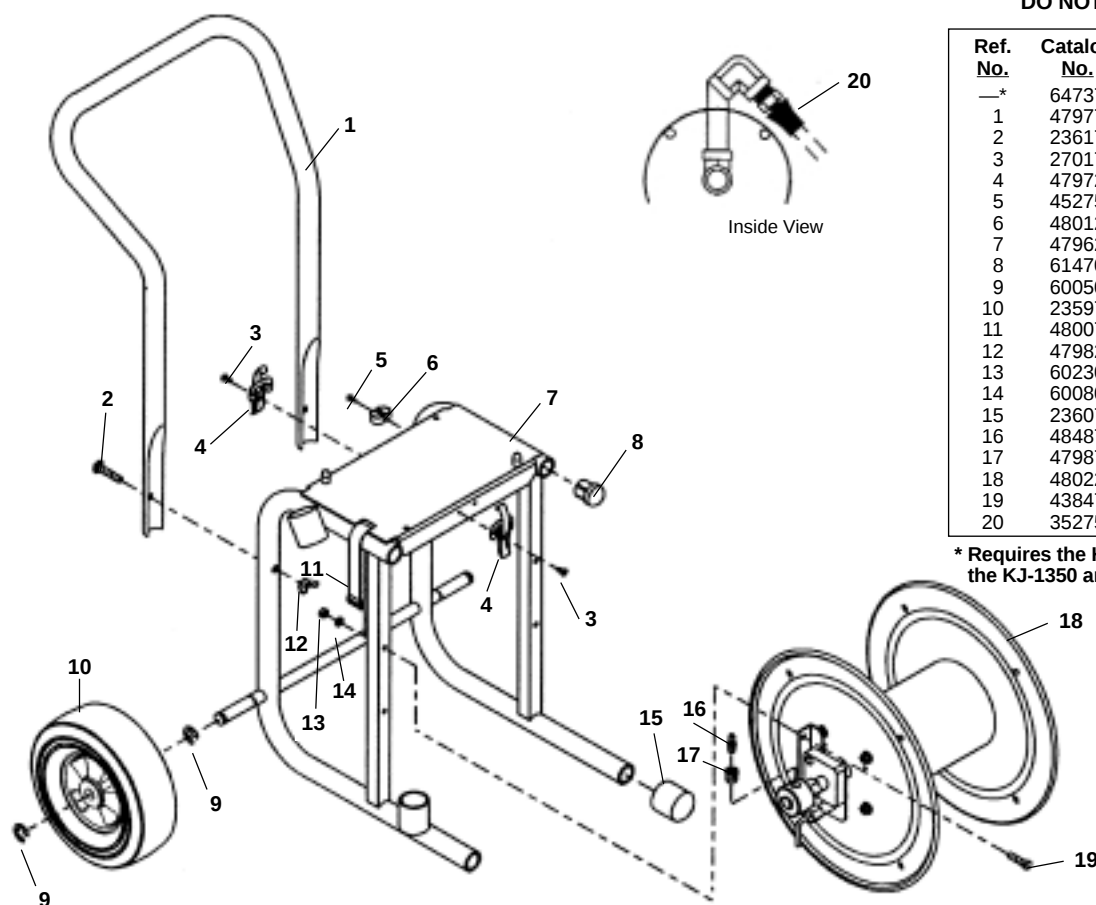
Hose Reel Components

Ref. No.	Catalog No.	Description
—*	64027	Hose Reel COMPLETE
1	67697	Swivel Connector
2	67702	Seal Kit, Swivel
3	67732	Knob, Drag Brake
4	67742	Bearing Block, Drag
5	67747	Hex Screw, $\frac{5}{16}$ " - 18 x $3\frac{1}{2}$ "
6	67707	Bearing Block, Plain
7	67737	Crank



Cart with Hose Reel

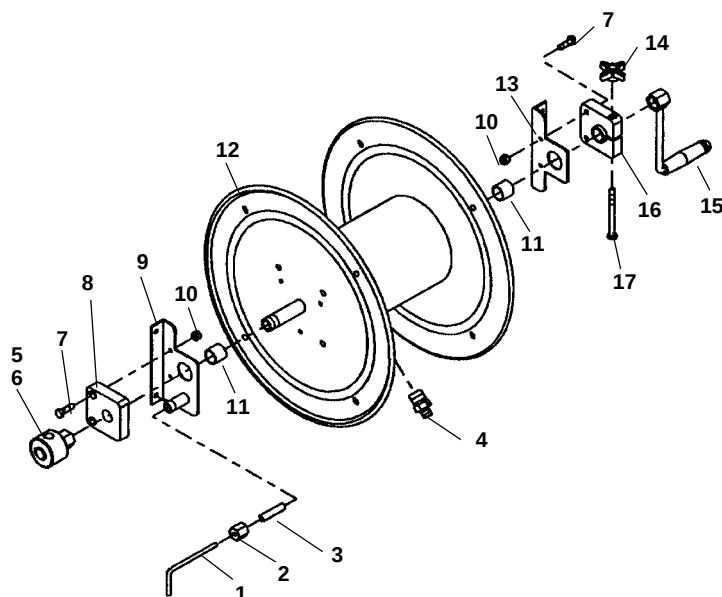
**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**



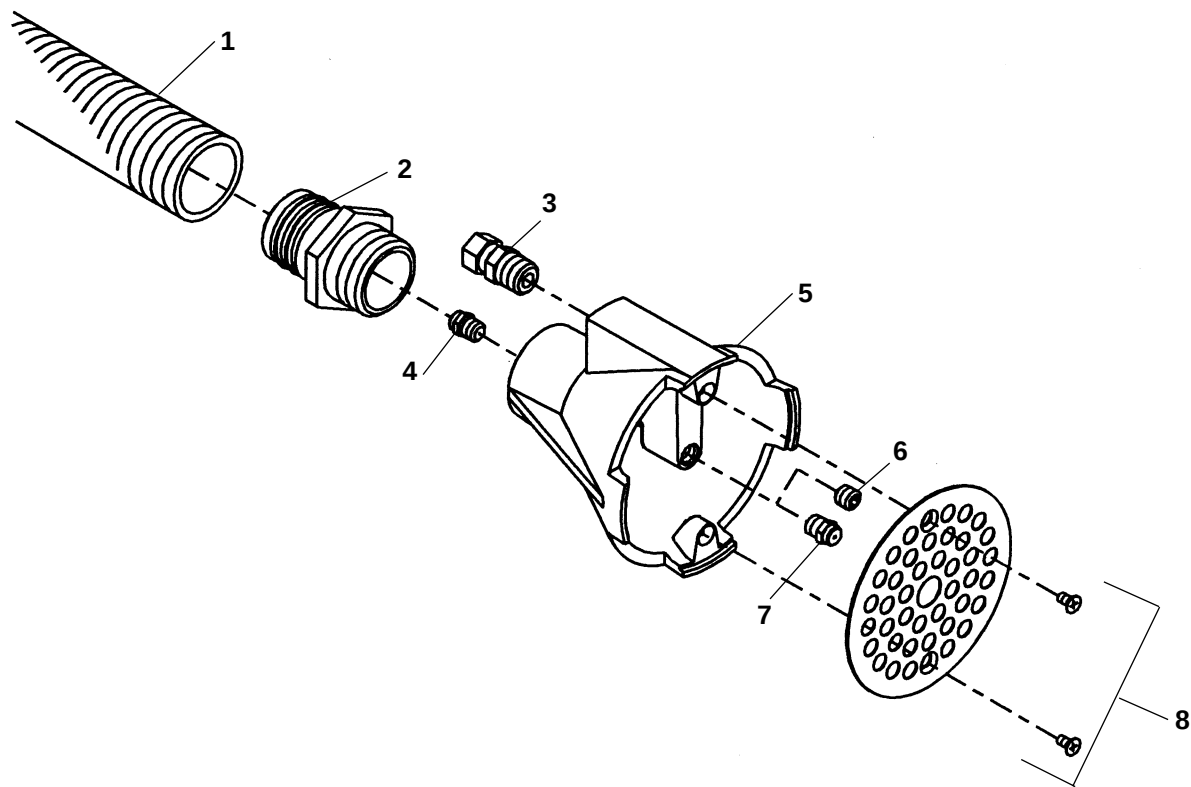
Ref. No.	Catalog No.	Description
—*	64737	H-30 Cart with Hose Reel
1	47977	Cart Handle
2	23617	Carriage Bolt, $\frac{3}{8}$ " – 16 x 2" (2)
3	27017	Screw, #12 – 24 x $\frac{5}{16}$ " (4)
4	47972	Latch (2)
5	45275	Screw, #10 – 24 x $\frac{1}{2}$ "
6	48012	Spring Clip
7	47962	Frame Weldment
8	61470	Rubber Plug
9	60050	Retaining Ring (4)
10	23597	Wheel (2)
11	48007	Cinch Strap
12	47982	Wing Nut, $\frac{3}{16}$ " (2)
13	60230	Hex Nut, $\frac{5}{16}$ " (4)
14	60080	Lock Washer $\frac{5}{16}$ " (4)
15	23607	End Cap (2)
16	48487	Quick Connect, Male $\frac{1}{4}$ " NPT
17	47987	Reducer Bushing, $\frac{3}{8}$ " – $\frac{1}{4}$ " NPT F
18	48022	Hose Reel Complete
19	43847	Hex Screw, $\frac{5}{16}$ " – 18 x 1 $\frac{1}{2}$ " (4)
20	35275	Spring

* Requires the H-30A Adapter Kit, #62892, to mount the KJ-1350 and KJ-1750 Export Jetters.

Reel Components



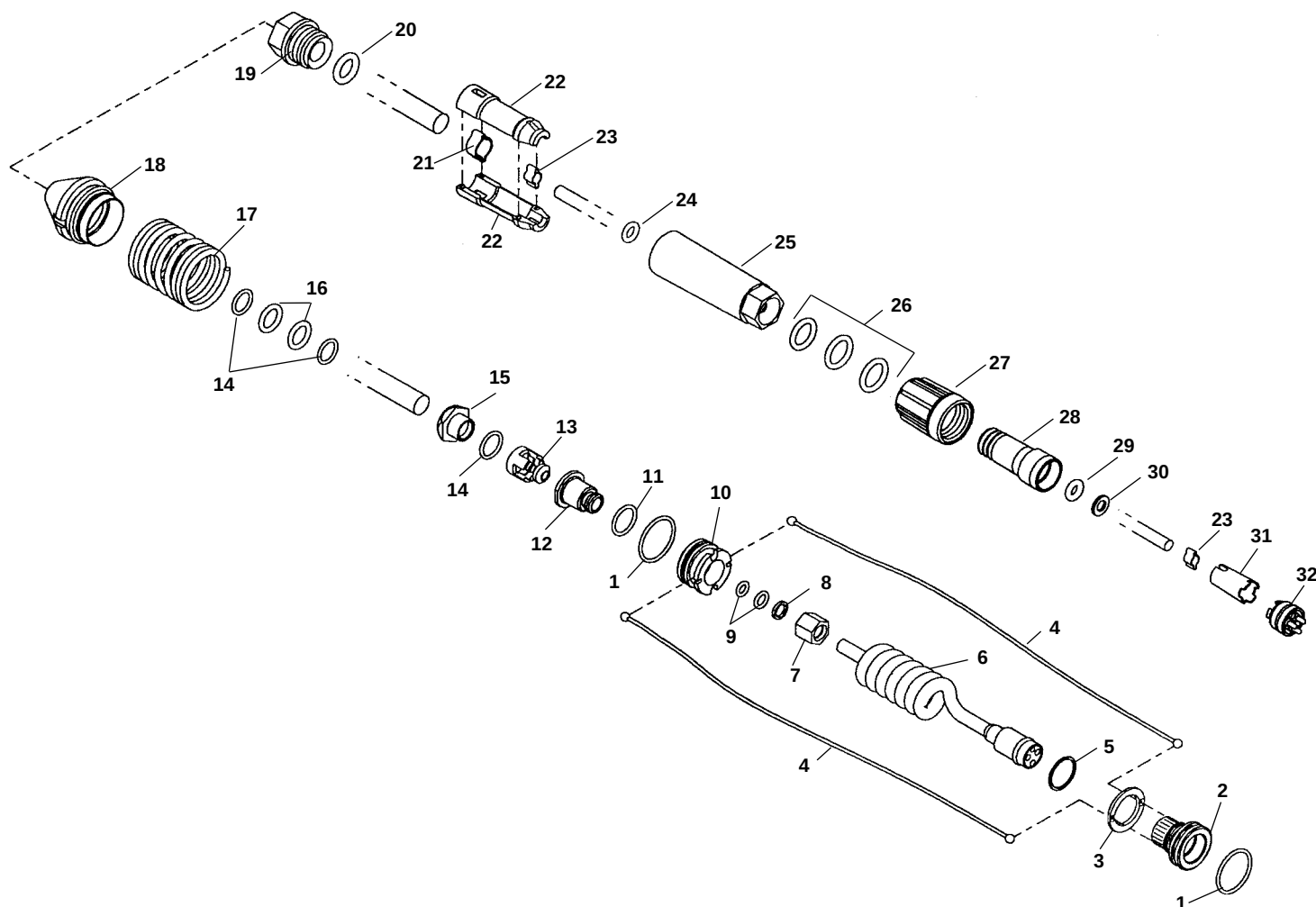
Ref. No.	Catalog No.	Description
—	48022	Hose Reel COMPLETE
1	67677	Reel Lock
2	67682	Lock Nut
3	67687	Sleeve
4	67692	Reducer Bushing, $\frac{1}{2}$ " – $\frac{1}{4}$ " NPT M
5	67697	Swivel Connector
6	67702	Service Kit, Swivel
7	85910	Hex Screw, $\frac{5}{16}$ " – 18 x 1" (2)
8	67707	Bearing Block, Plain
9	67712	Bracket, Lock Side
10	75110	Hex Nut, $\frac{5}{16}$ " – 18 (2)
11	67717	Spacer (2)
12	67722	Spool
13	67727	Bracket, Plain
14	67732	Knob, Drag Brake
15	67737	Crank
16	67742	Bearing Block, Drag
17	67747	Hex Screw, $\frac{5}{16}$ " – 18 x 3 $\frac{1}{2}$ "



**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description
—	67187	H-32 Jet Vac
1	73862	Jet Vac Hose
2	73867	Hose Barb
3	73872	1/4" Hose Connector
4	73877	#3 Jet Vac Nozzle
5	73892	Jet Vac Body
6	46815	1/8" NPT Pipe Plug
7	73882	#2 Jet Vac Nozzle
8	73887	Screen Assembly w/Screws

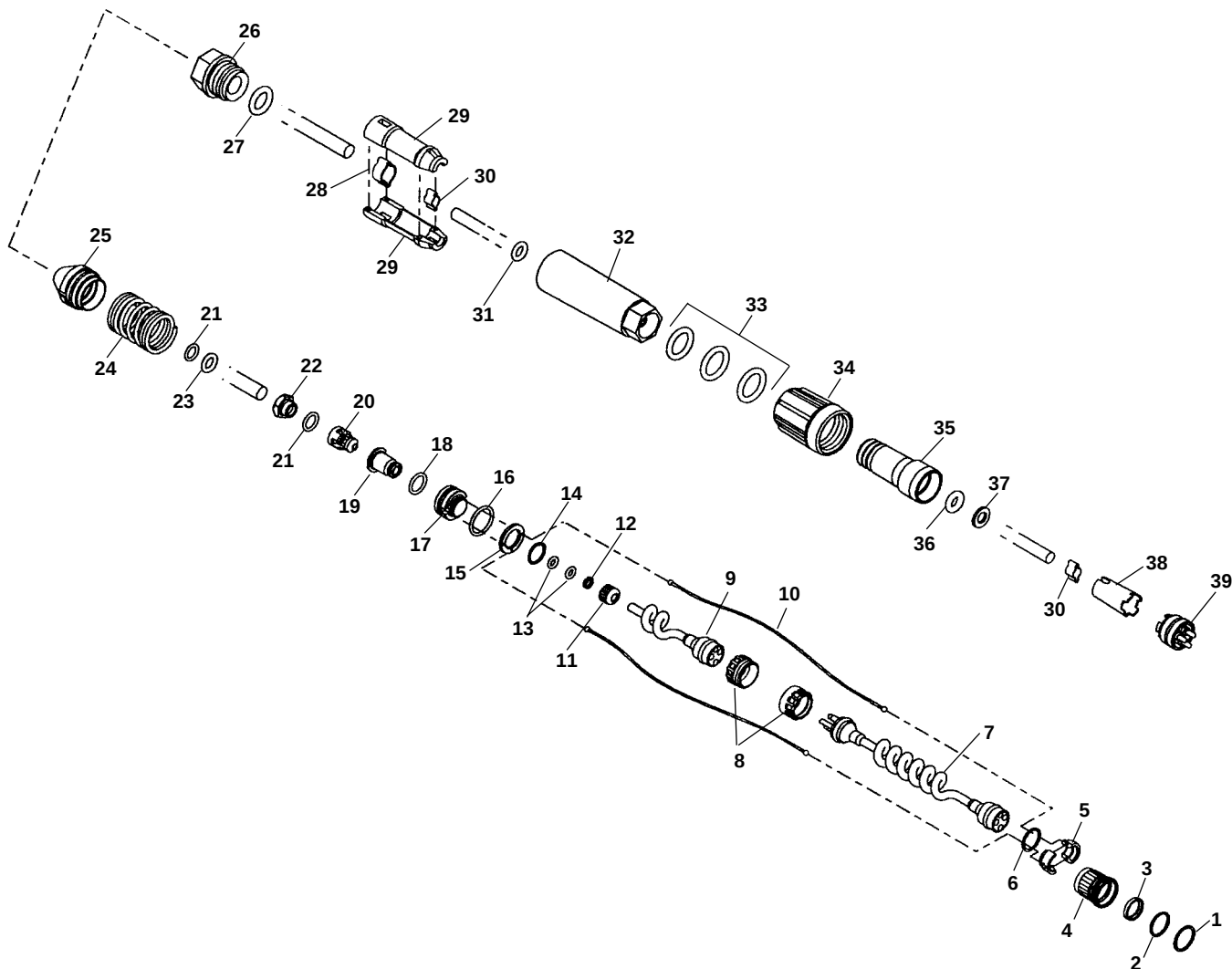
Regular Push Cable



**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	71482	O-Ring (2)	19	71657	Push Rod End Nut
2	71467	Locking Sleeve	20	71677	O-Ring
3	71477	Safe Ring	21	71667	Clamp
4	71247	Safety Cable (2)	22	71652	Inner Clam Shell (2)
5	71472	Back Up Ring	23	71607	Clamp (2)
6	71297	Camera Whip	24	71672	O-Ring
7	71287	Compression Nut	25	71662	Main Shell
8	71272	Back Up Ring	26	71582	O-Ring (3)
9	71277	O-Ring	27	71602	Locking Sleeve
10	71292	Spring Sleeve Cap	28	71592	In Line Shell
11	71487	O-Ring	29	71577	O-Ring
12	71502	Wire Sleeve	30	71587	Washer
13	71507	Push Bond	31	71597	Internal Back Shell
14	71512	O-Ring (2)	32	71612	Male Insert Assembly
15	71282	Push Nut	33	62032	Wet End Retermination Kit Includes Ref. No. 1, 11, 13,14,
16	71517	O-Ring (2)	34	66802	Dry End Reterm Kit Incl.
17	69987	Spring Assembly			
18	71302	Rear Spring Shell			

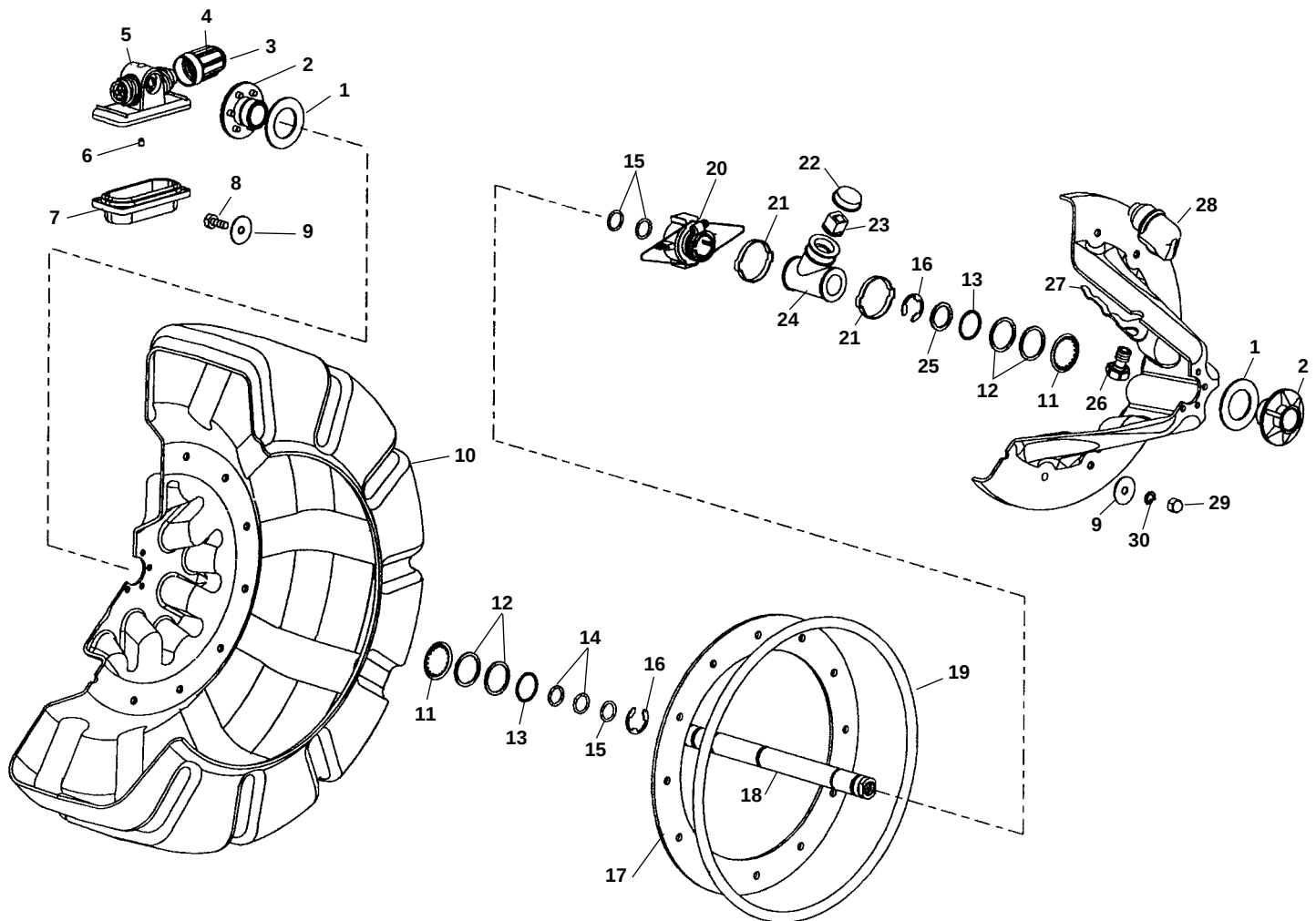
Mini Push Cable



**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	71012	Retaining Ring	22	70997	Mini Push Nut
2	71007	Locking Sleeve Front Washer	23	71227	O-Ring
3	71017	Locking Sleeve Rear Washer	24	70037	Spring Assembly - Mini
4	71022	Conn. Locking Sleeve	25	71047	Rear Spring Shell
5	71027	Conn. Split Insert	26	71657	Push Rod End Nut
6	71002	Retaining Ring	27	71677	O-Ring
7	70982	Mini Coil Cord Assembly	28	71667	Clamp
8	84502	Locking Sleeves (Set of 4)	29	71652	Inner Clam Shell (2)
9	70987	Short Coil Cord Assembly	30	71607	Clamp (2)
10	70992	Safety Cable - Mini (2)	31	71672	O-Ring
11	71067	Compression Nut - Mini	32	71662	Main Shell
12	71032	Teflon Back Up	33	71582	O-Ring (3)
13	71037	O-Ring (2)	34	71602	Locking Sleeve
14	71237	Retaining Ring	35	71592	In Line Shell
15	71062	Cable Retainer - Mini	36	71577	O-Ring
16	71242	O-Ring	37	71587	O-Ring
17	71057	Spring Cap	38	71597	Internal Back Shell
18	71232	O-Ring	39	71612	Male Insert Assembly
19	71052	Wire Sleeve - Mini	40	71212	Mini Retermination Kit
20	71217	Mini Push Bond			Includes Ref. No. 13, 15, 17, 19, 20, 22
21	71222	O-Ring (2)	41	66802	Dry End Retermination Kit

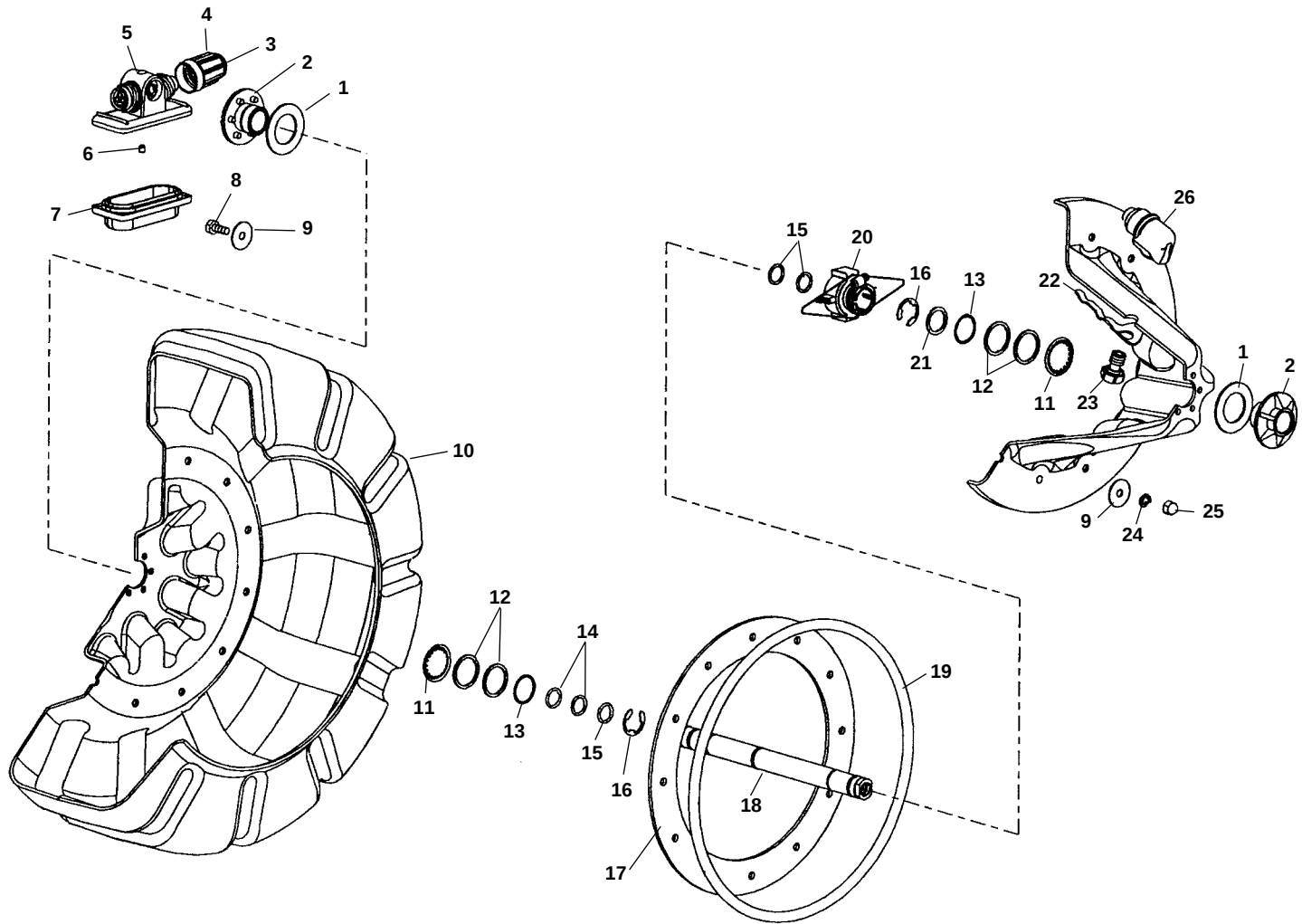
Regular Reel Assembly



**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	71557	Axle Gasket (2)	16	71102	Retaining Ring (2)
2	71552	Axle Bushing (2)	17	71542	Gasket Reg. System
3	71202	Dust Cover for Locking Sleeve	18	71567	Reel Axle
4	71172	Locking Sleeve	19	71547	Cone O-Ring
5	71167	Hub Assembly	20	71537	Slip Ring Assembly
6	71162	Screw	21	71492	Clamp 2-Ear (2)
7	71157	Hub Bottom	22	71532	Acrylic Widow
8	71572	Screw (12)	23	71527	IR Receiver
9	71192	Washer (24)	24	71522	IR Receiver Housing
10	71987	Reel Assembly	25	68267	Nylon Washer
11	71087	Retaining Ring (2)	26	71107	Bolt RA Welded Bulkhead
12	71092	Nylon Washer (4)	27	71117	Wire Clip
13	71097	Retaining Ring (2)	28	71112	Bulkhead Assembly
14	71132	O-Ring (2)	29	71182	Nut (2)
15	71127	O-Ring (3)	30	71187	Lock Washer (12)

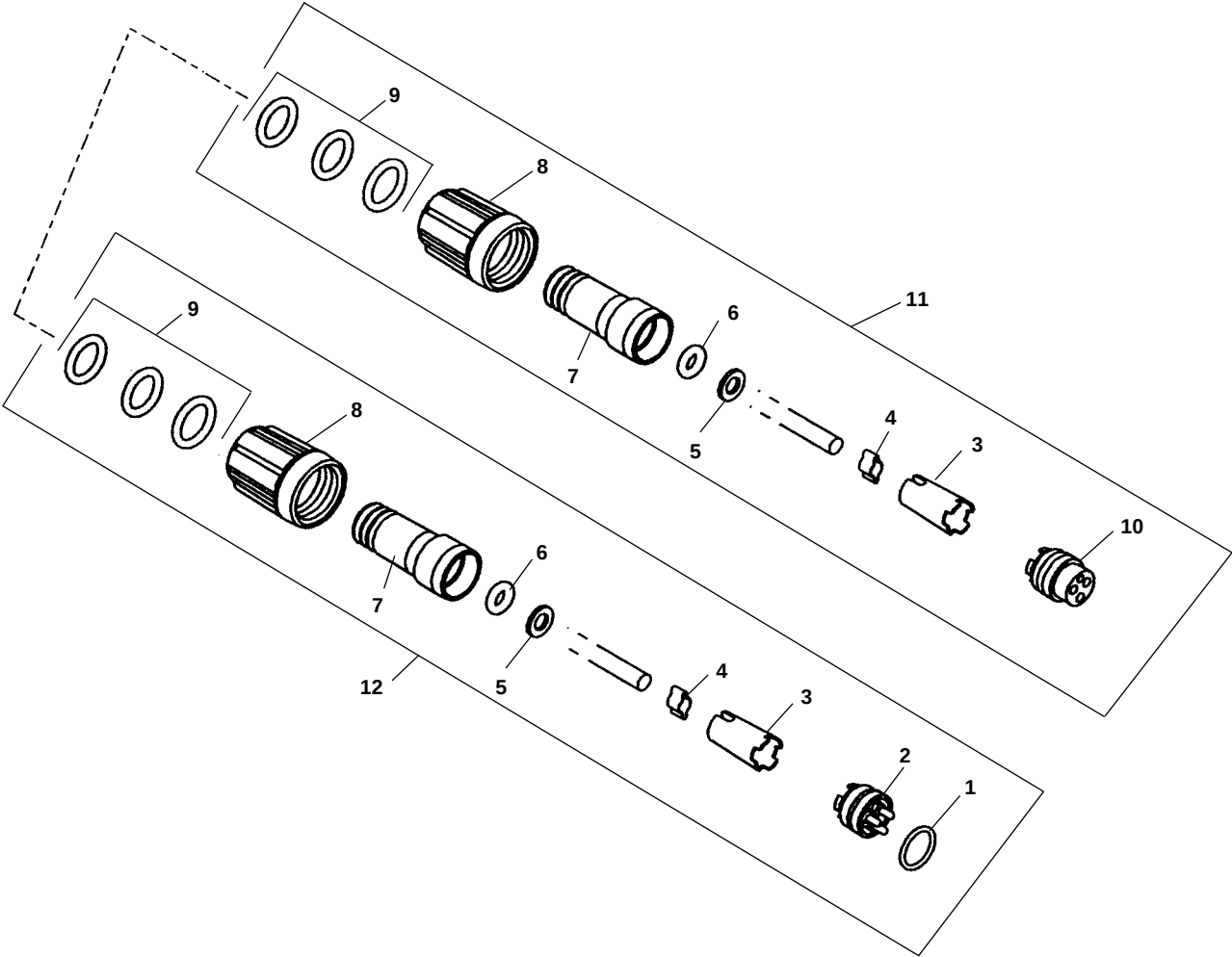
Mini Reel Assembly



**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	71557	Axle Gasket (2)	14	71132	O-Ring (2)
2	71552	Axle Bushing (2)	15	71127	O-Ring (3)
3	71202	Dust Cover for Locking Sleeve	16	71102	Retaining Ring (2)
4	71172	Locking Sleeve	17	71142	Gasket
5	71167	Hub Assembly	18	71082	Reel Axle
6	71162	Set Screw	19	71147	Cone O-Ring
7	71157	Hub Bottom Mini	20	71137	Slip Ring
8	71152	Screw (12)	21	71092	Nylon Washer
9	71192	Washer (24)	22	71117	Wire Clip
10	71177	Reel Assembly	23	71107	Bolt RA Welded Bulkhead
11	71087	Retaining Ring (2)	24	71187	Washer (12)
12	71092	Nylon Washer (4)	25	71182	Nut (12)
13	71097	Retaining Ring (2)	26	71112	Bulkhead Assembly

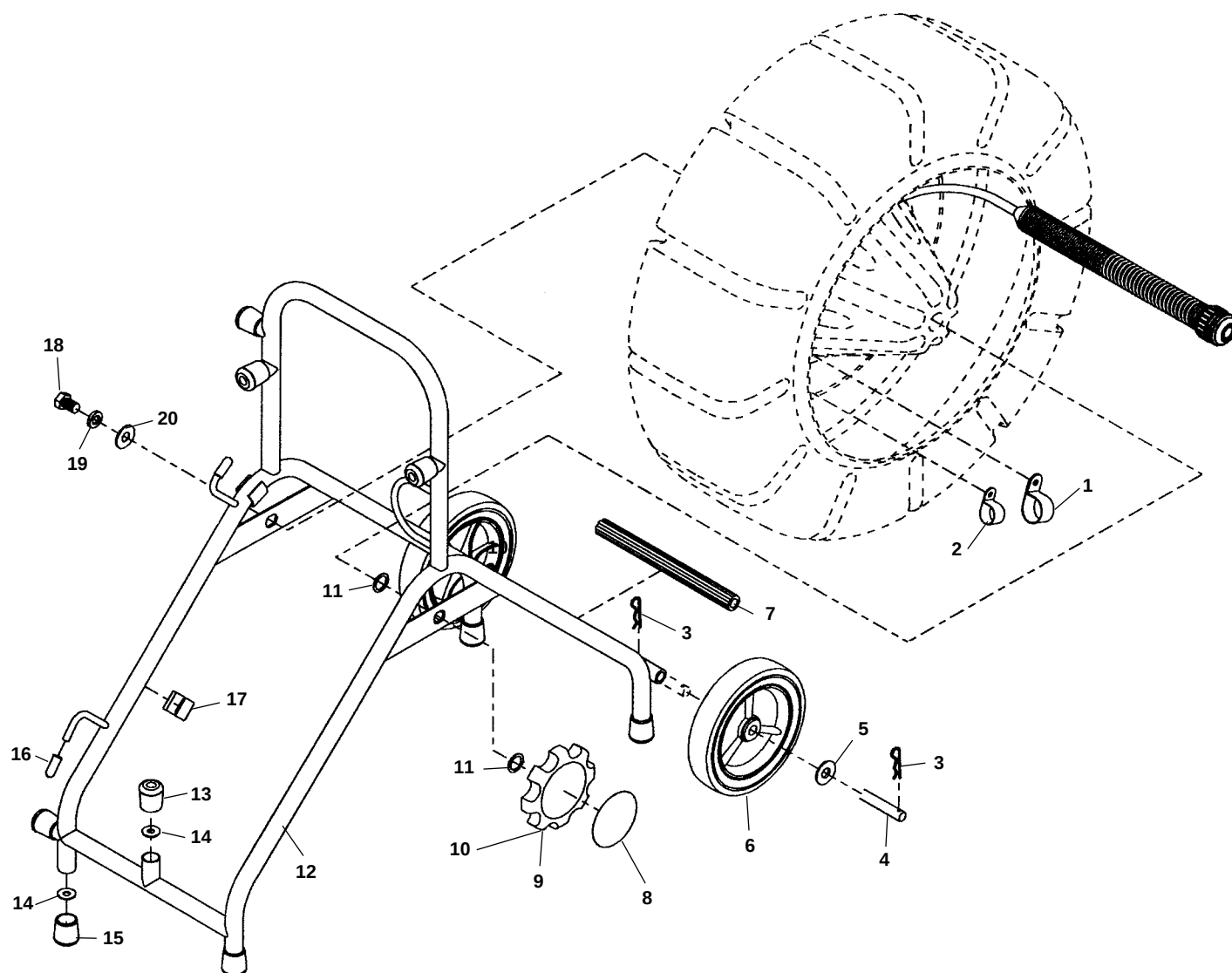
Interconnect Cord



**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
—	64627	Interconnect Cord 33'	6	71577	O-Ring (2)
—	67307	Interconnect Cord 10'	7	71592	In line Shell (2)
—	70907	Old Style Interconnect Cord 33'	8	71602	Locking Sleeve (2)
1	71487	O-Ring	9	71582	O-Rings (6)
2	71612	Male Insert	10	71617	Female Insert
3	71597	Internal Back Shell (2)	11	72817	Female Connector Assembly
4	71607	Clamp (2)	12	72822	Male Connector Assembly
5	71587	Washer (2)			

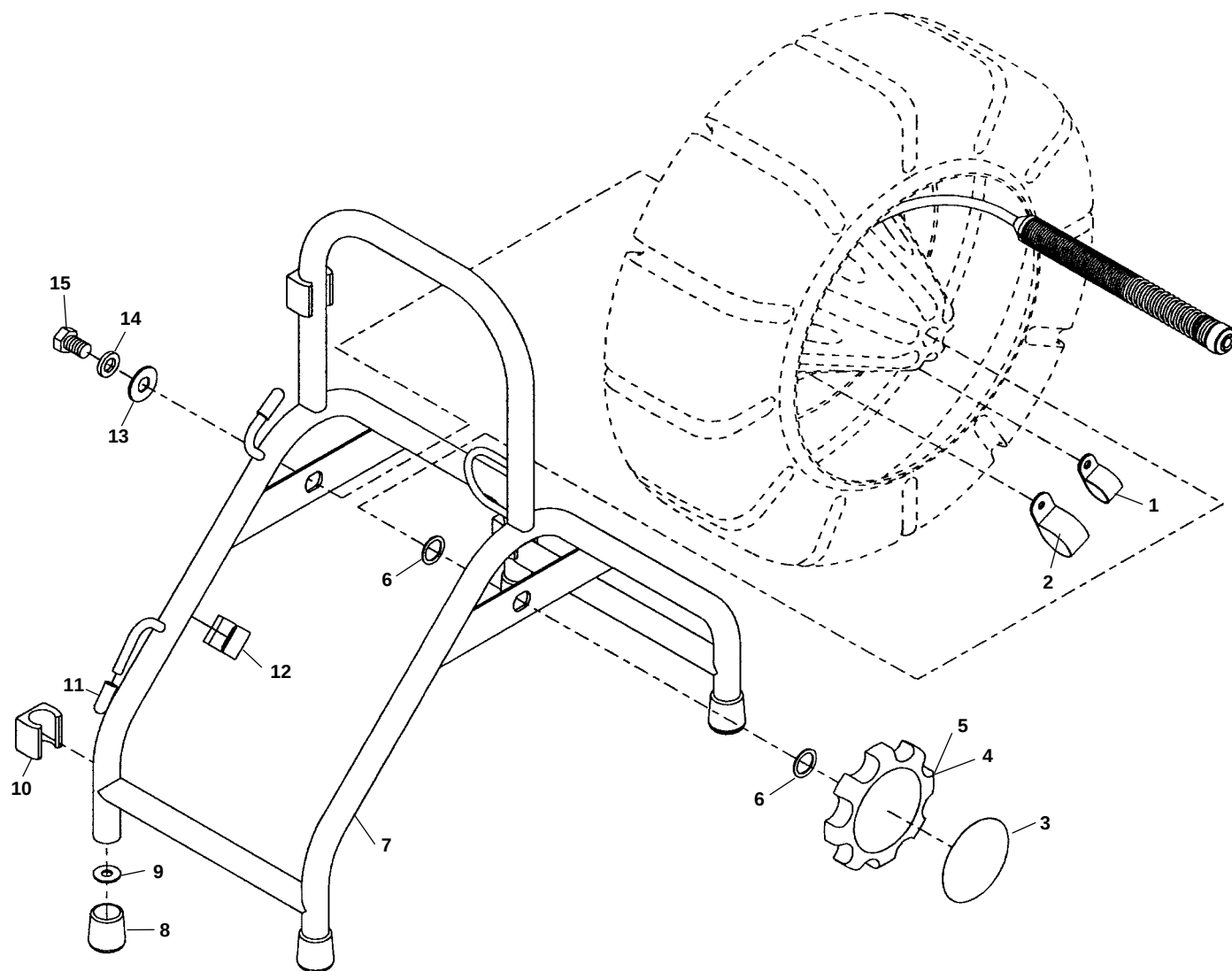
Regular Frame Assembly



**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

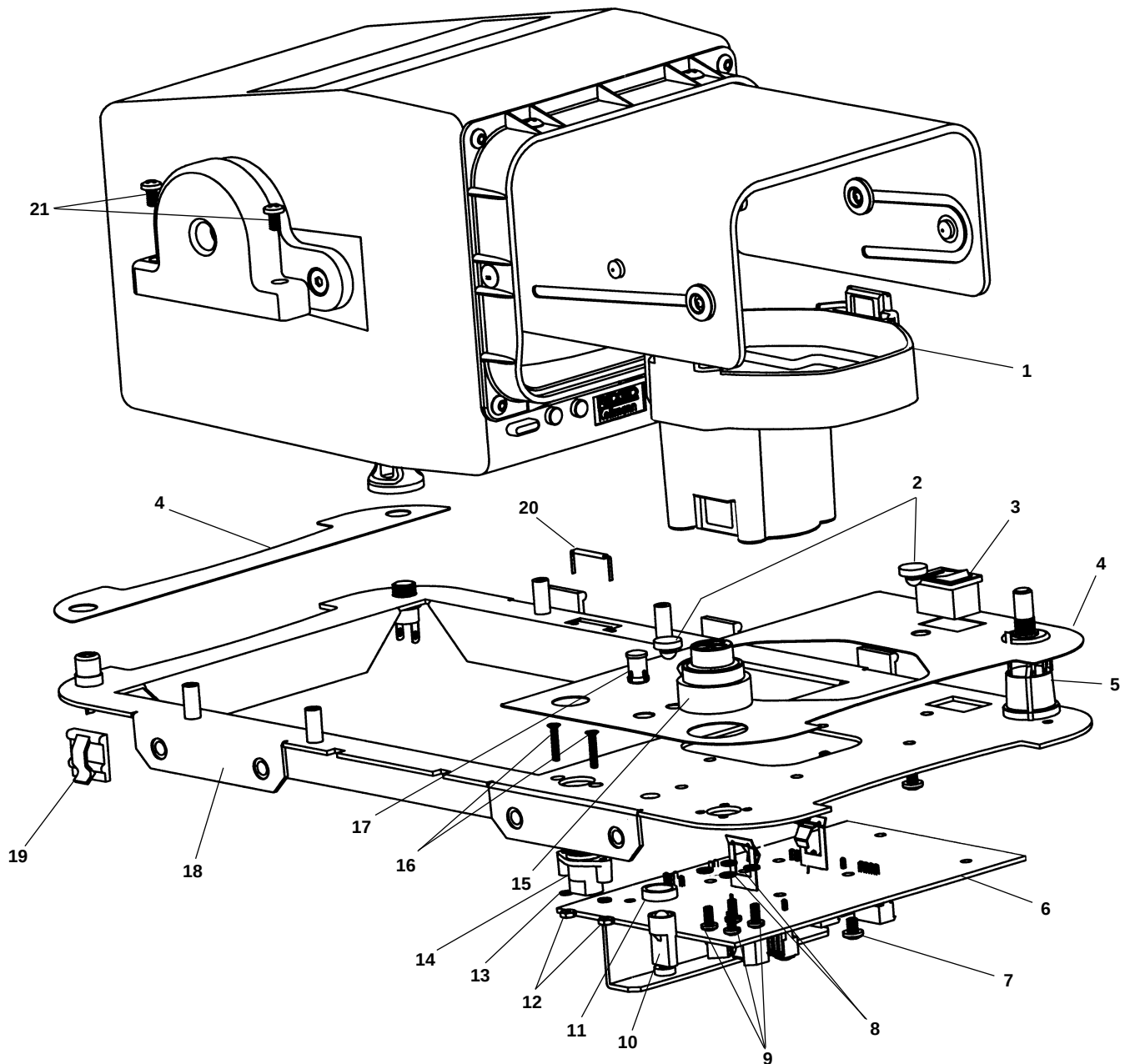
Ref. No.	Catalog No.	Description
1	71262	$\frac{1}{2}$ " Dry Clamp
2	71267	$\frac{7}{16}$ " Dry Clamp
3	68257	Axle Pin
4	68247	Axle
5	68267	Nylon Washer
6	68242	Wheel for SeeSnake (2)
7	68252	Axle Spacer
8	71207	Decal for Tension Knob
9	68262	Tension Knob
10	72517	Bolt for Tension Knob

Ref. No.	Catalog No.	Description
11	68267	Nylon Washer (2)
12	66797	Frame
13	72542	Rubber Cap (3)
14	72537	Back Up Washer (7)
15	70042	Rubber Foot (7)
16	72562	End Cap (2)
17	72532	Wire Clip (2)
18	72547	Rear Mount Bolt
19	72522	Lock Washer
20	72527	Flat Washer



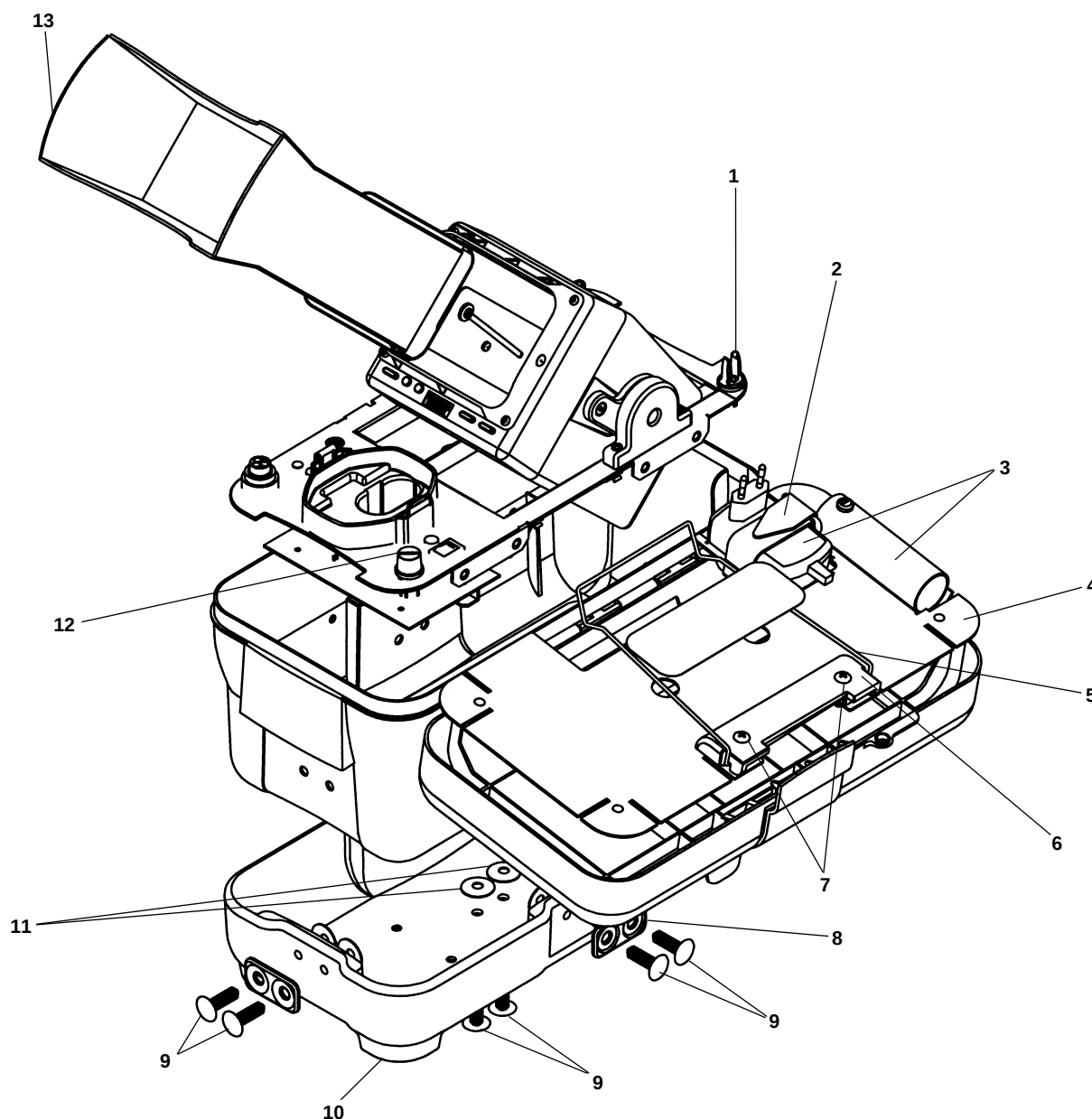
Ref. No.	Catalog No.	Description
1	71262	1/2" Dry Clamp
2	71267	7/8" Dry Clamp
3	71207	Decal for Tension Knob
4	68262	Tension Knob
5	72517	Bolt for Tension Knob
6	68267	Nylon Washer (2)
7	71647	Frame - Mini
8	70042	Rubber Foot (4)

Ref. No.	Catalog No.	Description
9	72537	Back Up Washer (4)
10	72557	Frame Bumper (3)
11	72562	Rubber End Cap (2)
12	72532	Wire Clip
13	72527	Flat Washer
14	72522	Lock Washer
15	72547	Rear Mount Bolt



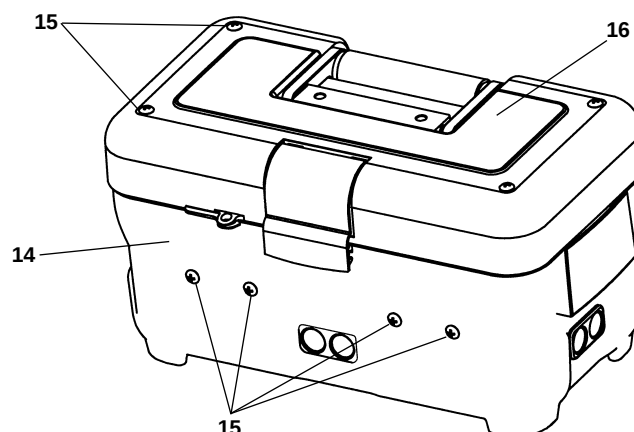
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

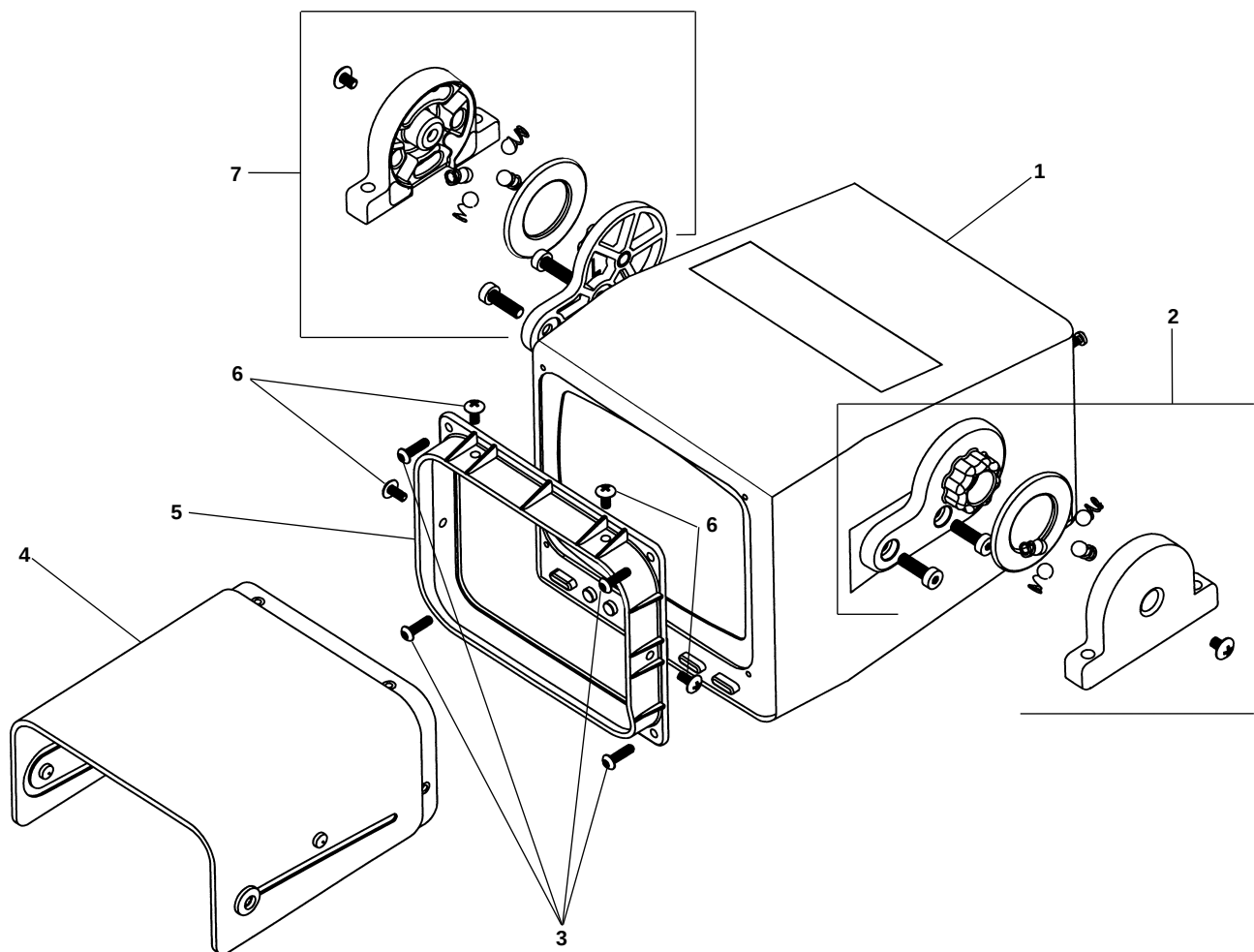
Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	83387	Battery Socket Assembly	12	88087	Nut (2)
2	88057	Rubber Button (2)	13	88082	Split Lock Washer (2)
3	86057	Switch Assembly	14	88172	Auxiliary Connector
4	88022	Base Panel Label Set	15	77307	Interconnect Bulkhead
5	87157	Dimmer Control Switch	16	88077	2-56 x 1/2" Screw (2)
6	88072	Circuit Board Assembly	17	88042	Lens Cap
7	88092	6-32 x 3/16" Phillips Screw (8)	18	88027	Base Panel
8	88047	Split Lock Washer (4)	19	87247	Adhesive Wire Clip (6)
9	88052	#4 - 40 x 1/4" Screw (4)	20	88992	Reed Switch Assembly
10	88032	Low Battery LED Assembly	21	92002	6-32 x 1/4" Phillips Screw (4)
11	88037	Ring Spacer			



**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description
1	88062	Cord Lock
2	88152	Velcro Hook/Loop
3	76882	Power Supply 115V (Includes Cord Tube)
4	76887	Power Supply 230V (Includes Cord Tube)
5	88007	Lid Plate
6	88147	Sun Boot Retainer
7	88142	Sun Boot Retainer Cover
8	88162	10-32 x 1" Machine Screw (2)
9	87992	Rivet Plate (5)
10	87987	Rivet (10)
11	88002	Toolbox Case
12	87997	Concave Washer (10)
13	87152	Knob w/Set Screw
14	77302	Sunboot
15	88012	Toolbox Only
16	87982	10-32 x 1/4" Mach Screw (2)
17	88017	Toolbox Label

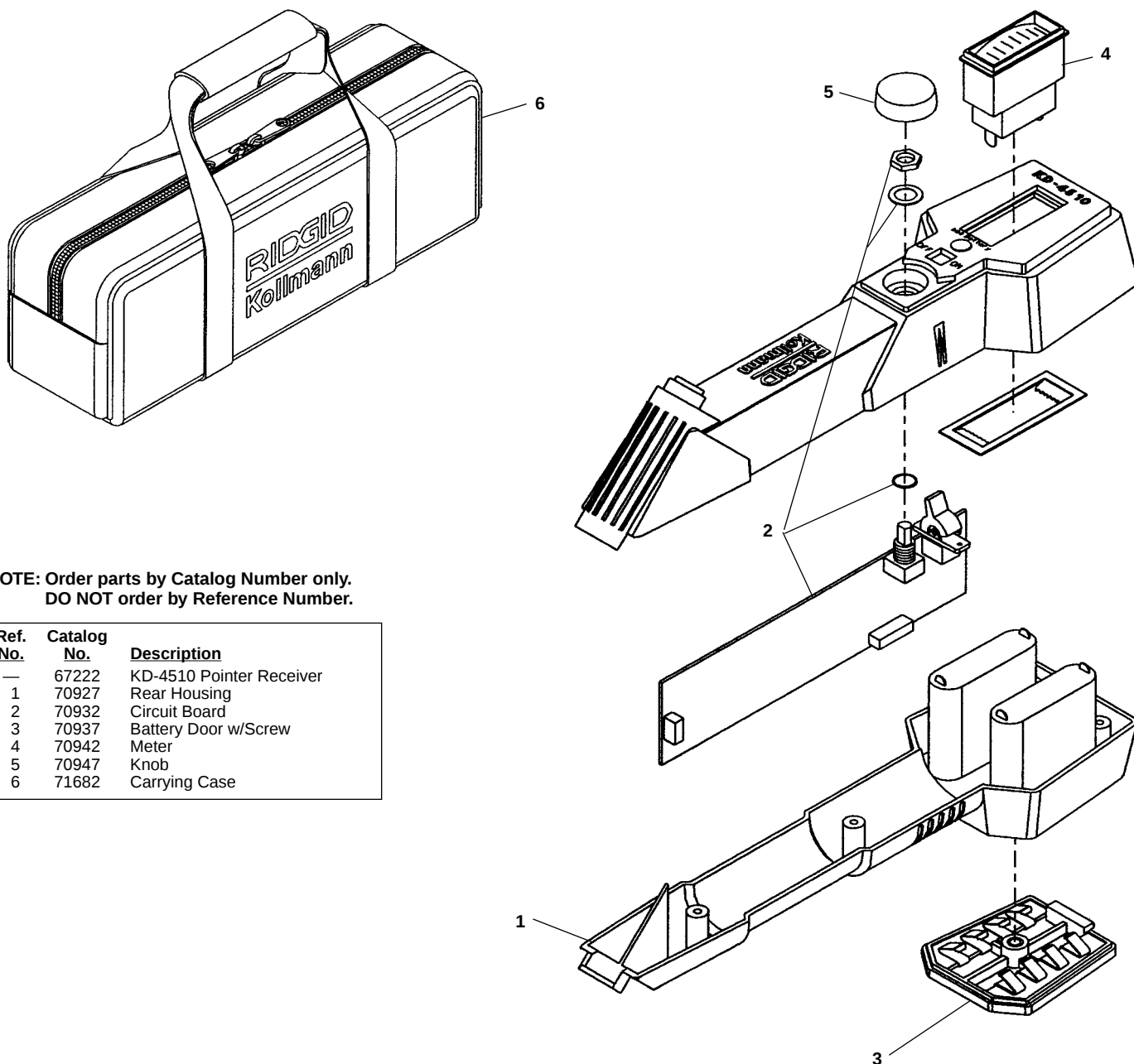




**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description
1	76927	Monitor Only 115V
	76932	Monitor Only 230V
2	88117	Left Pivot Assembly
3	88107	#6 x 1/2" Hex Screw (4) Tamper Proof
4	76872	Sun Shield
5	88102	Monitor Face Plate
6	88112	6-32 x 5/16" Phillips Screw (4)
7	88122	Right Pivot Assembly
Items Not Shown (Located on Back of Monitor)		
88097 Cable Tie		
88167 White Spacer		
88132 M3 x 12 mm Phillips Screw		
87242 Cable Tie Clip		

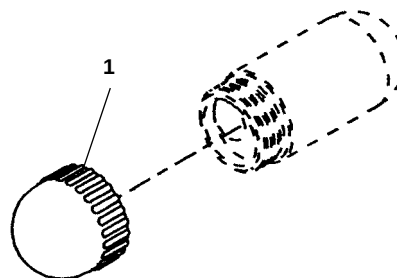
Pointer Receiver

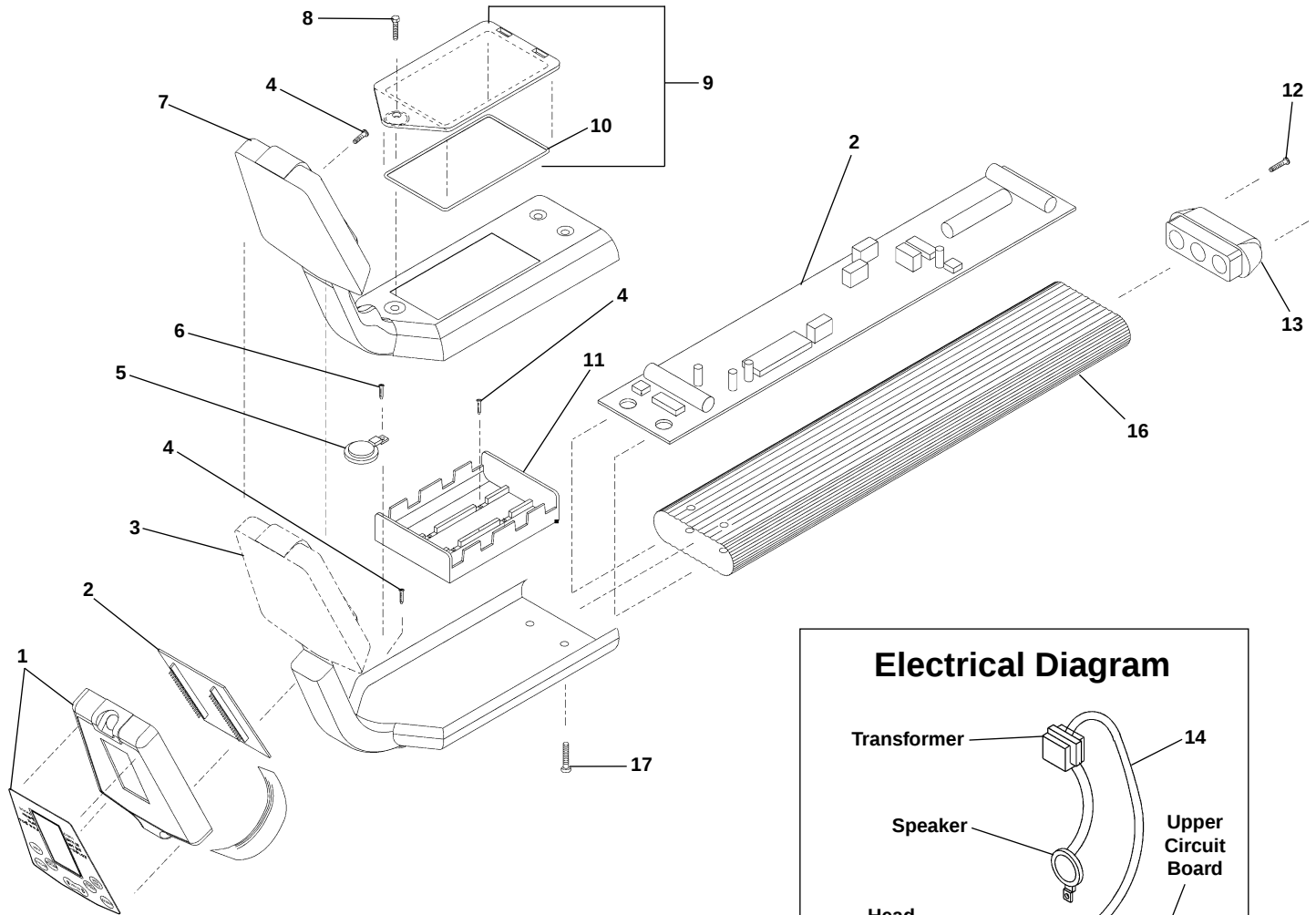


NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.

Ref. No.	Catalog No.	Description
—	67222	KD-4510 Pointer Receiver
1	70927	Rear Housing
2	70932	Circuit Board
3	70937	Battery Door w/Screw
4	70942	Meter
5	70947	Knob
6	71682	Carrying Case

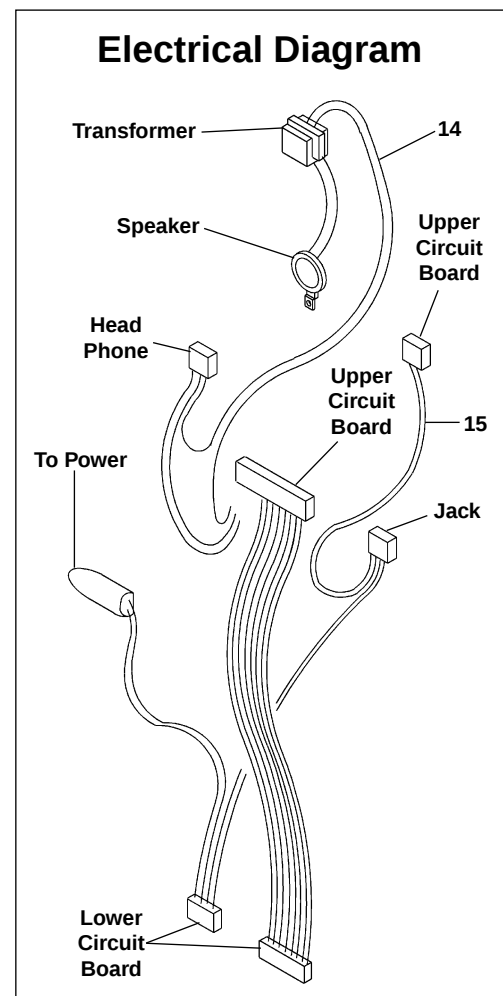
Ref. No.	Catalog No.	Description
—	67227	Remote Transmitter
1	70957	Sonde Cap





**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description
1	92537	Keypad Console Assembly
2	92622	Power Board Assembly
3	92507	Lower Receiver Housing
4	92567	#4-24 x $\frac{5}{16}$ " Tap Screw (8)
5	92552	Internal Speaker
6	92562	#2-32 x $\frac{1}{4}$ " Tap Screw (2)
7	92512	Upper Receiver Housing
8	92582	#10-24 x $\frac{1}{2}$ " Screw
9	93597	Battery Door w/O-Ring
10	92592	O-Ring
11	92557	Battery Holder
12	92572	#6 x $\frac{3}{4}$ " Tap Screw (2)
13	92517	End Cap
14	92502	Battery Wiring Harness
15	92472	Main Wiring Harness
16	92532	Lower Body
17	92587	$\frac{13}{16}$ "-18 x $\frac{5}{8}$ " Button Hd. Cap Screw (2)

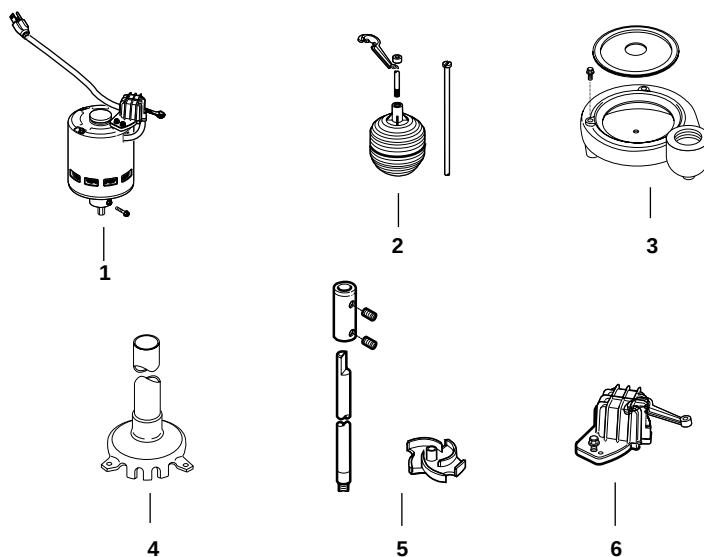


Pedestal Sump Pump

SP-500P

NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.

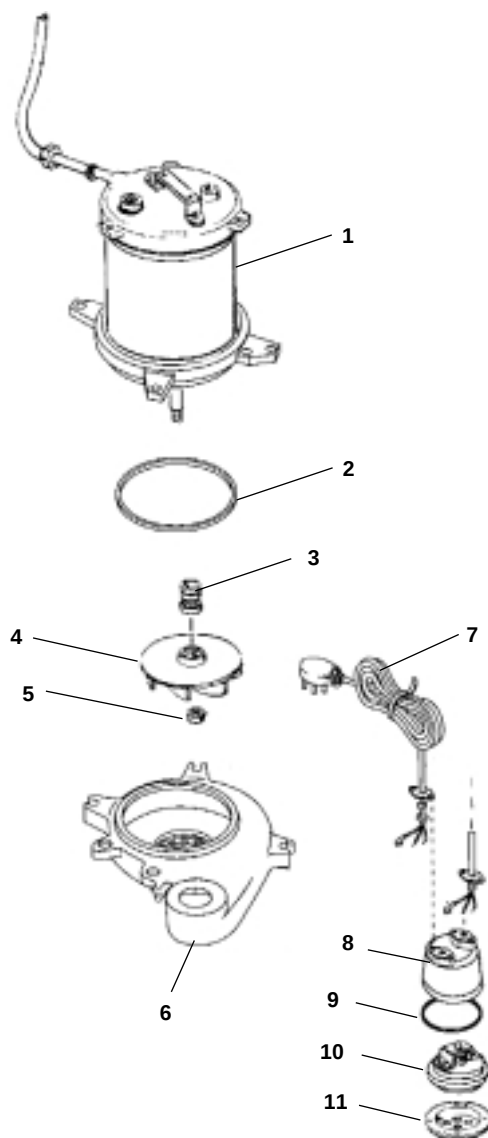
Ref. No.	Catalog No.	Description
1	88462	Motor Kit
2	88467	Float and Guide Kit
3	88472	Volute Kit
4	88477	Pump Top Housing with Bearing and Column
5	88482	Impeller Kit
6	88487	Switch Kit



Submersible Sump Pump

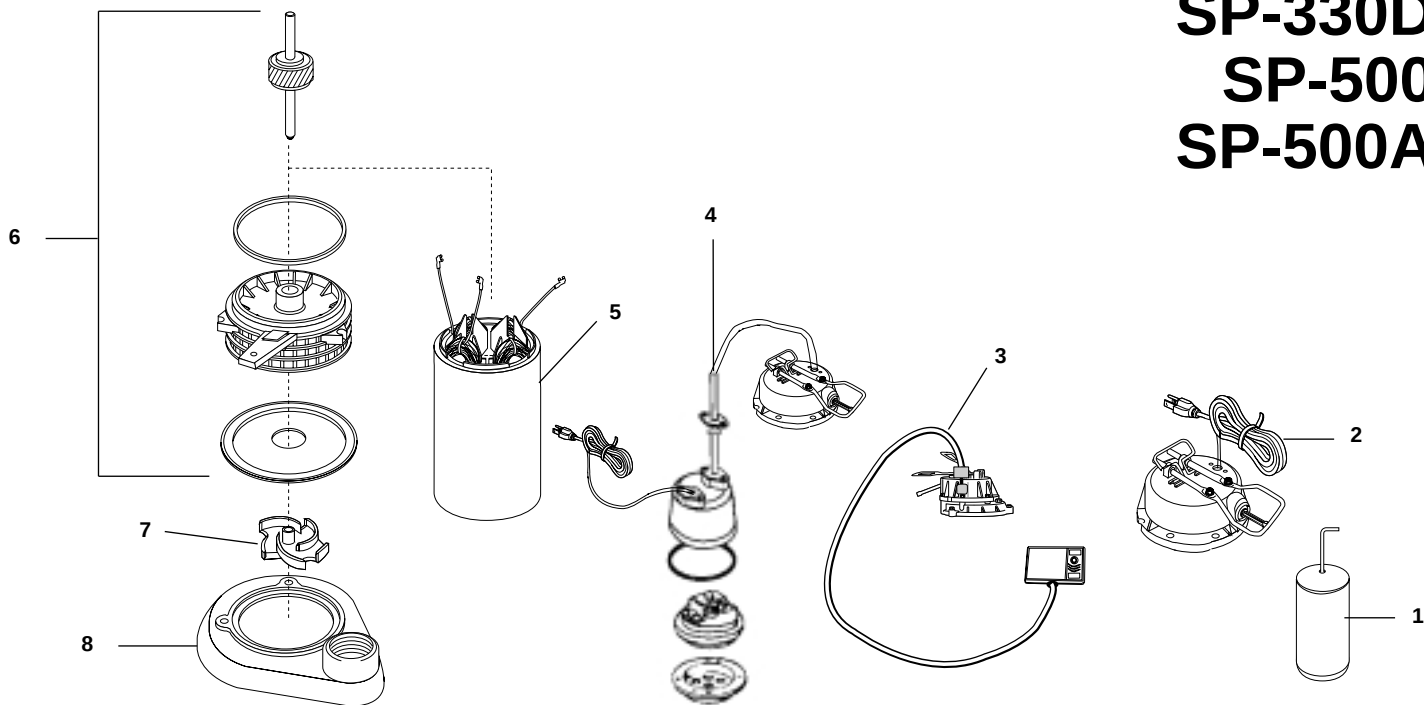
SP-1000

Ref. No.	Catalog No.	Description
1	90207	Motor Assembly
2	90212	Gasket
3	90217	Mechanical Seal
4	90222	Impeller
5	90227	Impeller Nut
6	90232	Volute
7	90237	Power Cord Assembly
8	90242	Switch Housing
9	90247	O-Ring Seal
10	90252	Pressure Switch
11	90257	Retainer Ring and Screen



Submersible Sump Pump

SP-330
SP-330D
SP-500
SP-500A

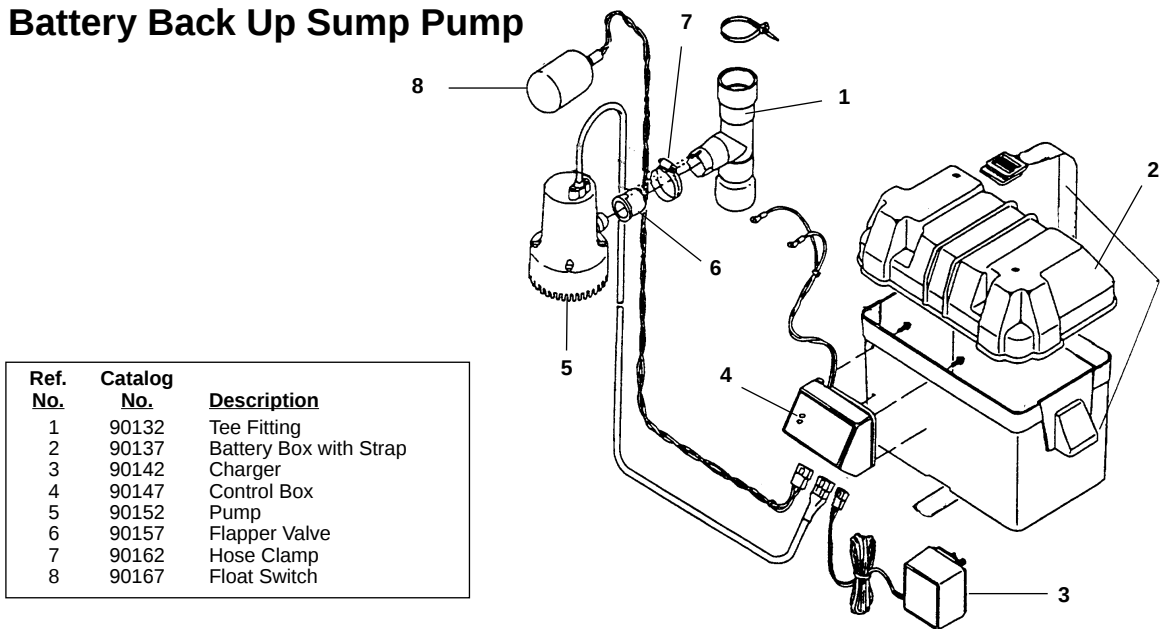


NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.

	SP330	SP330D	SP500	SP500A	
Ref. No.	Catalog No.	Catalog No.	Catalog No.	Catalog No.	Description
1	88557	N/A	88557	88557	Float Kit
2	88562	N/A	88562	N/A	Switch/Top Assembly
3	N/A	N/A	N/A	88572	Alarm Top Assembly/Switch
4	N/A	88567	N/A	N/A	Top Assembly/Diaphragm
5	88577	88577	88582	88582	Stator
6	88587	88587	88592	88592	Lower Bracket/Rotor
7	88597	88597	88597	88597	Cast Iron Impeller
8	88602	90382	88602	88602	Cast Iron Volute

Battery Back Up Sump Pump

BB-12V

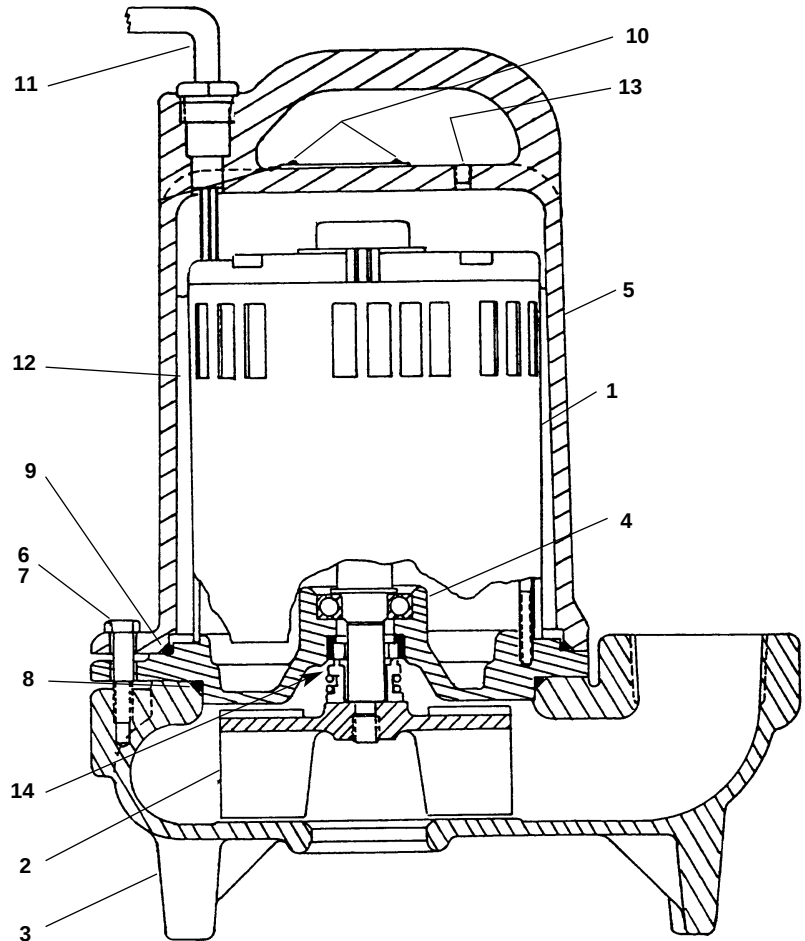


Ref. No.	Catalog No.	Description
1	90132	Tee Fitting
2	90137	Battery Box with Strap
3	90142	Charger
4	90147	Control Box
5	90152	Pump
6	90157	Flapper Valve
7	90162	Hose Clamp
8	90167	Float Switch

SEC-400 SEC-600

NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.

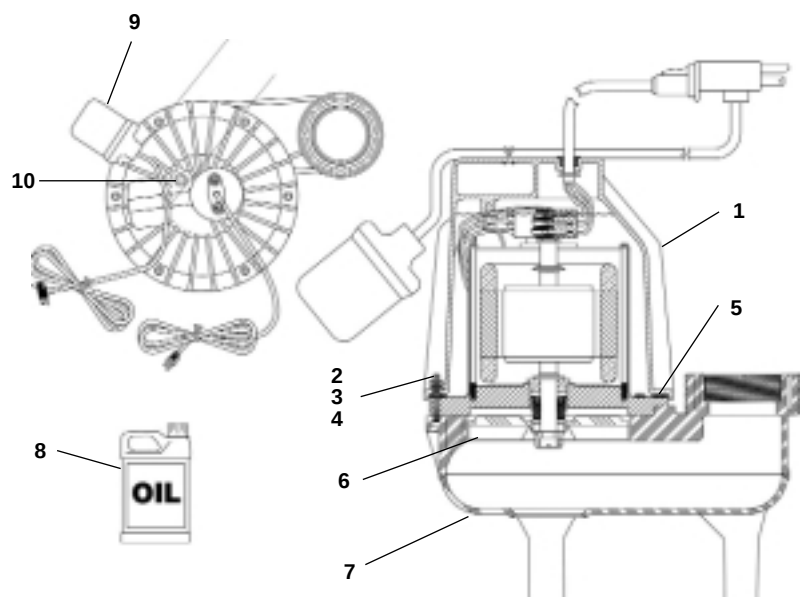
	SEC-400	SEC-600	
Ref. No.	Catalog No.	Catalog No.	Description
1	90312	90317	Motor .4 H.P. Motor .6 H.P.
2	90322	90327	Impeller .4 H.P. Impeller .6 H.P.
3	90332	90332	Volute
4	90337	90337	Seal Plate
5	90342	90342	Motor Housing
6	90347	90347	Bolt, Hx. Hd. 3/8" - 16 x .75"
7	90352	90352	Bolt, Hx. Hd. 3/8" - 16 x 1.50"
8	90357	90357	Square Ring Gasket
9	90362	90362	O-Ring Gasket
10	90367	90367	Drive Screw #2 x .18"
11	90372	90372	Power Supply Cord
12	90297	90297	Dielectric Oil-Pint
13	90307	90307	Pipe Plug
14	90377	90377	Shaft Seal Assembly

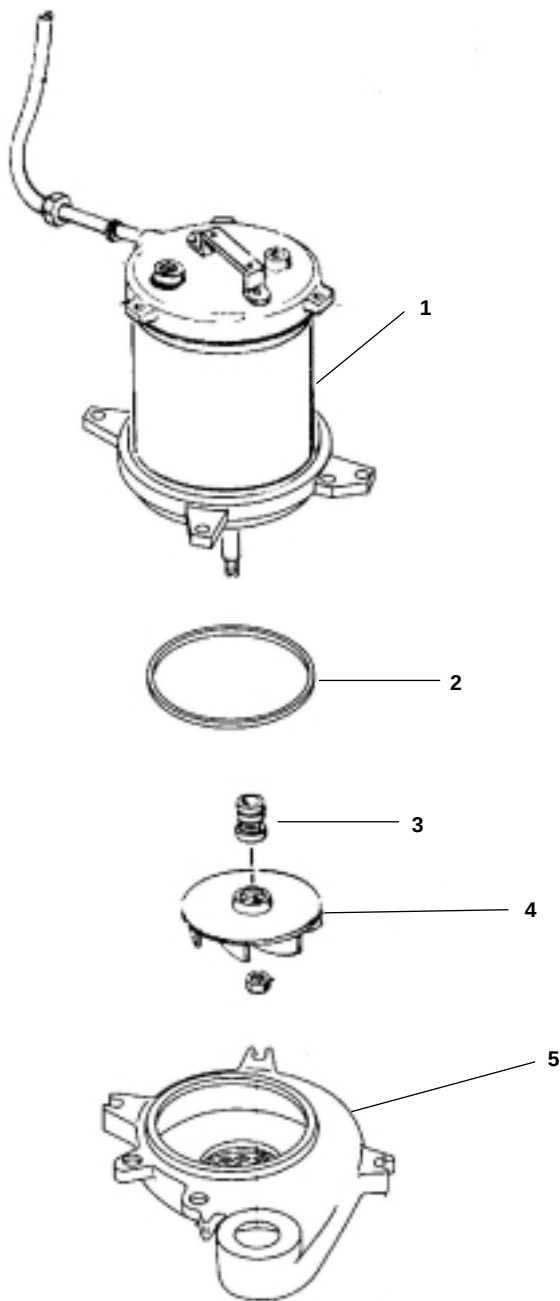


Sewage Pump

SEP-500

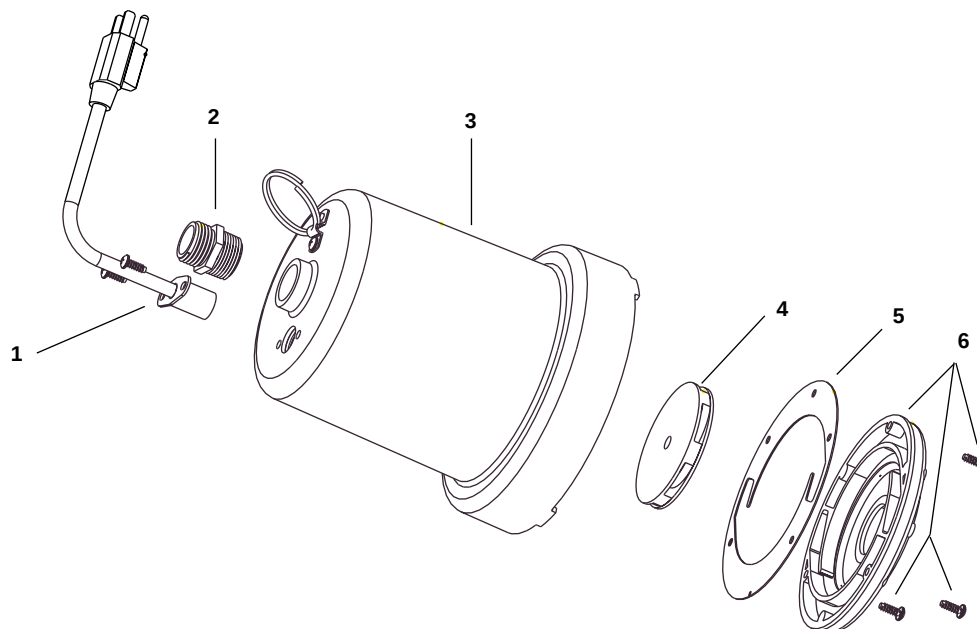
	SEP-500	
Ref. No.	Catalog No.	Description
1	90262	Motor/Power Cord
2	90267	#10-24 Hex Nut
3	90272	#10 Split Lock Washer
4	90277	#10 Lock Washer
5	90282	Motor housing gasket
6	90287	Impeller
7	90292	Volute
8	90297	1 Pint Dielectric Oil
9	90302	Mechanical Switch





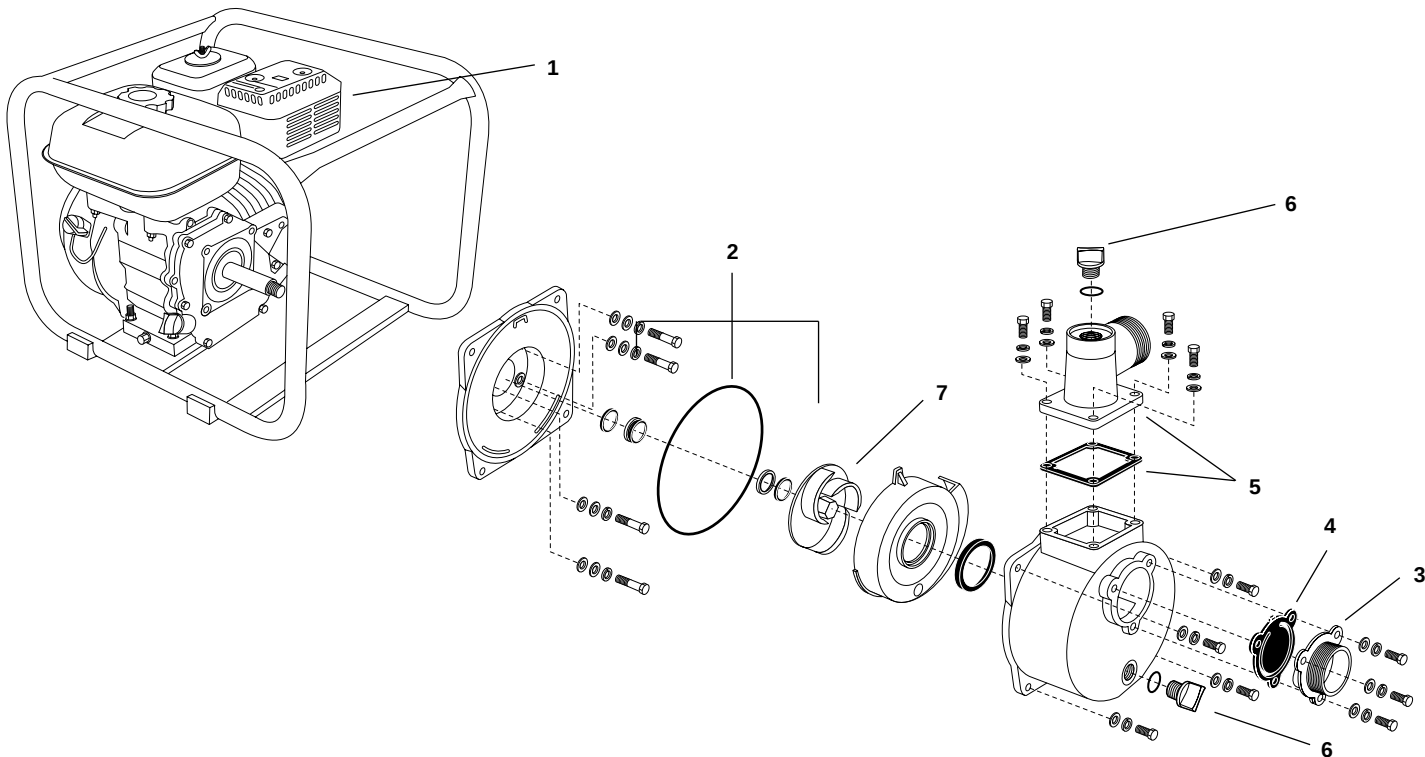
NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.

Ref. No.	Catalog No.	Description
1	90207	Motor Assembly Kit
2	90212	Volute Gasket Kit
3	90217	Shaft Seal Kit
4	90222	Impeller Kit
5	90232	Volute Kit



**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description
1	90172	Power Cord Kit
2	90177	Discharge Fitting Kit
3	90182	Outer Housing with O-Ring Kit
4	90187	Impeller Kit
5	90192	Volute Gasket Kit
6	90197	Volute Cover with screen Kit
Not Shown	90202	Motor Kit



	TP-4000	TP-5500	
Ref. No.	Catalog No.	Catalog No.	Description
1	88492	88497	Engine
2	88502	88507	Shaft Seal Kit
3	88512	88517	Suction Flange
4	88522	88527	Flapper Check Valve
5	88532	88537	Discharge Flange Kit
6	88542	88542	Drain/Fill Plug
7	88547	88552	Impeller



Independent Service Centers

June 2001

ALABAMA

BIRMINGHAM, Alabama Jack
1140 5th Ave. N., **35203**
(205) 251-8156

ALASKA

ANCHORAGE, Alaska Tool & Equipment Service
3207 Arctic Blvd., **99503**
(907) 562-6151

ARIZONA

PHOENIX, Boerner Company
2435 E. Indian School Rd., **85016**
(602) 957-9710

PHOENIX, Glenn's Tool Service
2149 E. Indian School Rd., **85016**
(602) 264-6203

PHOENIX, Unicoa Industrial Supply, Co.
2224 North 23rd. Ave., **85009**
(602) 254-4666 (800) 551-2525

TUCSON, Western Tool, Inc.
702 S. Campbell Ave., **85719**
(520) 884-0504

ARKANSAS

LITTLE ROCK, Clark Hydraulic Service
2901 Confederate Blvd., **72206**
(501) 375-1252 (800) 264-1252

CALIFORNIA

BAKERSFIELD, Bakersfield Tool Repair
424½ - 24th St., **93301**
(805) 327-2820

FRESNO, Kimmerle Brothers, Inc.
337 M St., **93721**
(209) 233-1278

ESCONDIDO, Breezer Equipment & Supply
1566 Sterling Court, **92029**
(760) 739-0888

HAYWARD, California Service Tool,
26250-F Corporate Ave., **94545**
(510) 782-1000

(LOS ANGELES) HAWTHORNE, Drain Cleaner Service
J. M. McKinney Co.
12710 Yukon Ave., **90250**
(800) 821-7275

(LOS ANGELES) SANTA FE SPRINGS,
Kimmerle Brothers, Inc.
12060 Florence Ave., **90670**
(562) 946-6771

(LOS ANGELES) N. HOLLYWOOD,
Bucknall Power Tool Service
11910 Vose St., **91605**
(818) 765-0228

SACRAMENTO, Valley Tool Repair
4131-B Power Inn Road, **95826**
(916) 737-6300

SO. SAN FRANCISCO, C. H. Bull Company
233 Utah Ave., **94080**
(650) 871-8440

COLORADO

DENVER, Bartell Tool Service, Inc.
1448 W. Cedar Ave., **80223**
(303) 777-5463

DENVER, Runge Tool Company
1330 South Inca Street, **80223**
(303) 744-1224

CONNECTICUT

HARTFORD, Utility Electric Service
53 Main St. (South End), **06106**
(860) 246-7271

(HARTFORD) GLASTONBURY, Jossam Tool Repair
46-B Kreiger Lane, **06033**
(860) 657-9636

NEW HAVEN, Colony Hardware Supply
15 Stiles Street, **06512**
(203) 466-5252

STRATFORD, Electric Enterprise
1410 Stratford Ave., **06497**
(203) 378-7311

DELAWARE

NEW CASTLE, MSC Holloway Bros. Tool
19 East Commons Blvd., **19720**
(302) 322-5441

FLORIDA

JACKSONVILLE, Cameron & Barkley
10200 Alton Box Rd., **32218**
(904) 757-0211

JACKSONVILLE, Hughes Supply Company
5311 Doolittle Road, **32254**
(904) 388-8315

(MIAMI) HIALEAH, Creation Tool Co.
3865 E. Fourth Ave., **33013**
(305) 836-7488

ORLANDO, Florida Electric Motor Service
1128 Atlanta Ave., **32806**
(407) 425-8160

ORLANDO, Altaquip
5043 Edgewater Drive, **32810**
(407) 578-3723

PENNSACOLA, Escambia Electric Motor Service
1101 W. Main, **32501**
(850) 432-1577

TAMPA, Mylee Tool Supply
2905 W. Kennedy Blvd., **33609**
(813) 877-0509 (800) 282-4474

(WEST PALM BEACH) LAKE PARK, Action Bolt & Tool Co.
212 Newman Rd., **33403**
(407) 845-8800 (800) 423-0700

GEORGIA

ATLANTA, Boggs Supply, Inc.
1310 White St., S.W., **30310**
(404) 758-6321

ATLANTA, Power Tool Service Co.
1939 Hills Ave. N.W., **30318-2814**
(404) 605-0101

MARIETTA, Altaquip
270 Cobb Parkway, Suite A9A, **30062**
(770) 422-4238

SUWANEE, Foster Group Sales, Inc.
3630 Burnette Park Dr., Suite A, **30024**
(678) 482-0044

IDAHO

BOISE, K.C. Supply Company
5103 Irving St., **83706**
(208) 375-1313 (800) 446-9004

ILLINOIS

CHICAGO, Allan J. Coleman Co.
5725 N. Ravenswood Ave., **60660**
(773) 728-2400

(CHICAGO) BERWYN, Jacks' Inc.
6642 W. 26th St., **60402**
(708) 788-4300 (800) 773-6899

(CHICAGO) ELK GROVE VILLAGE, Brock Tool Company
1475 Louis Ave., **60007**
(847) 956-7200 (800) 332-7625

(CHICAGO) McCOOK, Recco Tool
8805 Joliet, **60525**
(708) 442-7850

INDIANA

EAST CHICAGO, Calumet Contractors Supply Co, Inc.
2120 E. Columbus Dr., **46312**
(219) 398-0017

EVANSVILLE, Tri State Repair Service
1327 N. Fares Ave. (Bus., Hiway 41 N.), **47711**
(812) 464-9341 (800) 457-3749

FORT WAYNE, Mill Supplies, Inc.
5105 Industrial Rd., **46825**
(219) 484-8566 (800) 589-5353

FORT WAYNE, Wagner Electric of Fort Wayne, Inc.
3610 N. Clinton St., **46805**
(219) 484-5532

INDIANAPOLIS, Anderson Brothers Tool Co.
3531 Southeastern Ave., **46203**
(317) 356-6381

IOWA

DAVENPORT, Alter & Sons
514 S. Howell Street, **52802**
(319) 323-3601 (800) 553-1111

DES MOINES, Tool Hospital
1523 Second Ave., **50314**
(515) 282-3323 (800) 753-3323

KANSAS

KANSAS CITY, Acme Hydraulics, Inc.
815 Kansas Ave., **66105**
(913) 321-6385

KENTUCKY

LEXINGTON, City Electric Motor Co.
631 Kennedy Rd., **40511**
(606) 254-5581

LEXINGTON, Jiffy Tool Repair
1127 Commercial Drive, **40505**
(606) 252-1849

LOUISVILLE, Bailey Tools & Supply
1418 S. Shelby, **40217**
(502) 635-6348 (800) 999-4533

LOUISIANA

BATON ROUGE, Tool Shed, Inc.
7835 Tom Dr., Suite A, **70806**
(504) 926-6500 (800) 349-6501

(NEW ORLEANS) HARVEY, Industrial Welding Supply
1452 Fourth Street, **70058**
(504) 362-9395

NEW ORLEANS, Beerman Precision, Inc.
4206 Howard Ave., **70125**
(504) 486-9391

SHREVEPORT, McClamroch Machinery Co.
939 Louisiana Ave., **71101**
(318) 222-9249 (800) 333-2853

MAINE

BANGOR, N.H Bragg & Sons
92 Perry Road, **04401**
(207) 947-8611

MARYLAND

BALTIMORE, Brock Tool & Supply
1200 66th St., **21237**
(410) 483-4300 (800) 275-2379

UPPER MARLBORO, Diamond Tool
8051 Penn Randall Place, **20772**
(301) 967-2844

MASSACHUSETTS

EVERETT, Panda Electrical Service, Inc.
165 Main St., **02149**
(617) 389-1442

MICHIGAN

ANN ARBOR, McCally Tool & Supply
2451 S. Industrial Pkwy.; Suite B, **48104**
(734) 747-8332 (800) 535-6434

(DETROIT) LIVONIA, Brock Tool
31090 Industrial Rd., **48150**
(734) 261-9333

GRAND RAPIDS, Hoeksema Tool Service, Inc.
2499 28th St., S.W., **49509**
(616) 538-1870

KINGSFORD, Northern Tool & Supply
1021 Pyle Drive, **49802**
(906) 774-3991

MINNESOTA

ST. PAUL, Total Tool Supply Company
315 N. Pierce St., **55104**
(612) 646-4055 (800) 444-4899

MISSISSIPPI

JACKSON, Flannigan Electric Co., Inc.
1820 South West St., **39201**
(601) 354-2756 (800) 962-7638

MISSOURI

KANSAS CITY, Construction & Ind., Sup., Co. (CISCO)
1901 McGee St., **64108-1827**
(816) 842-7777 (800) 444-0453

ST. LOUIS, PM Electric Co., Inc.
5280 Fyler Ave., **63139**
(314) 351-4550

(ST. LOUIS) FENTON, Shannon O'Tools
1718 Chase Drive, **63026**
(314) 349-0255 (800) 316-8665

MONTANA

BILLINGS, Ted's Electric Service
102 11th Street West, **59102**
(406) 259-6418

NEBRASKA

LINCOLN, The Tool House of Henkle & Joyce
800 Q Street, **68501**
(402) 474-4638 (800) 279-2658

OMAHA, Thacker Electric
8507 I St., **68127-1615**
(402) 592-9433 (800) 678-7604

NEVADA

LAS VEGAS, Tool Service, Inc.
3239 Industrial Rd., **89109**
(702) 734-9161

(RENO) SPARKS, Industrial Electric Co.
310 Kresge Lane, **89431**
(702) 331-1032

NEW JERSEY

(NEWARK) CLIFTON, The Tool Box
119 Lakeview Ave., **07011**
(973) 340-7652

(ELIZABETH) ROSELLE, Air & Electric Tool Service
130 West 3rd. Ave., **07203**
(908) 241-6930

NEW MEXICO

ALBUQUERQUE, Martin Saw & Tool
3423 Vassar Avenue, N.E. **87107**
(505) 888-1675

NEW YORK

(ALBANY) RENNELAER, Albany Hydraulic & Lube Serv Inc.
98A Columbia Turnpike, **12144**
(518) 462-5425

BUFFALO, S.S. Electric Repair Shop, Inc.
2470 Seneca St., **14210**
(716) 823-1232

(LONG ISLAND) AMITYVILLE, Dependable Repair, Inc.
18 Ranick Dr., W., **11701**
(516) 842-0700

(LONG ISLAND) HUNTINGTON STATION, A&T Power Tools
515 East Jericho Turnpike, **11746**
(516) 271-2141

(N.Y.C.) BRONX, Modern Suppliers, Inc.
1090 Leggett Ave., **10474**
(718) 328-8000

For further information, contact: RIDGE TOOL COMPANY, Technical Service Dept., 400 Clark St., Elyria, Ohio 44035-6001, U.S.A.
Technical Service (800) 519-3456 FAX (440) 329-4551 E-mail: TechServices@ridgid.com



Independent Service Centers (cont.)

(N.Y.C.) BROOKLYN, J & A Repair Shop

6206 20th Ave., **11204**
(718) 232-5746 / (718) 232-8409

(N.Y.C.) **BROOKLYN**, The White Tool & Supply, Inc.
3047 Atlantic Ave., **11208**
(718) 277-8844

(N.Y.C.) **MASPETH**, Davis & Warshow
57-22 49th Street, **11378-0039**
(718) 937-9500 (888) 937-9500

(N.Y.C.) **PORT CHESTER**, Mald Tool & Equipment
21 Abendroth Ave., **10573**
(914) 937-1771

ROCHESTER, Hanes Supply Co.
10 Cairn Street, **14611**
(716) 235-0160

SYRACUSE, Syracuse Armature
1622 Burnet Ave., **13206**
(315) 476-2576 / 476-2596

NORTH CAROLINA

GREENSBORO, ENSCO
827 Norwalk St., **27407**
(336) 292-9000 (800) 868-8828

WILMINGTON, Bruce Watkins Supply
1940 Dawson St. Extension, **28403**
(910) 762-3131

OHIO

CINCINNATI, Cincinnati Armature Works, Inc.
6516 Wiehe Rd., **45237**
(513) 631-3020

(CINCINNATI) **HARRISON**, F & M Mafco
9149 Dry Fork Road, **45030**
(513) 367-2151

CLEVELAND, A & A Hydraulic Repair Co.
2735 Scranton Rd., **44113**
(800) 992-9898 (Ohio Only) (216) 621-1133

(CLEVELAND) **ELYRIA**, RIDGID Factory Service Ctr.
321 Sumner St., **44036-2023**
(440) 323-5581

COLUMBUS, Central Ohio Power Tool, Inc.
1042 Dublin Rd., **43215**
(614) 481-2111 (800) 242-4424

DAYTON, M & R Electric Motor Service
1516 East Fifth St., **45403**
(937) 222-6282 (800) 242-4424 (Ohio Only)

YOUNGSTOWN, Pennsylvania Tool Sales
625 Bev Road, **44512**
(330) 758-0845

OKLAHOMA

OKLAHOMA CITY, Commercial Tool Repair, Inc.
1829 Linwood, **73106**
(405) 232-2158

OKLAHOMA CITY, Whitton Supply Co.
1419 West Reno, **73106**
(405) 236-5561

TULSA, Air & Electric Industrial Tool & Supply
1513 South Utica, **74104**
(918) 744-1515 (800) 248-5948

OREGON

PORTLAND, Karn Repair Service
1215 S. W. 16th Ave., **97205**
(503) 228-8313

PENNSYLVANIA

(HARRISBURG) **MECHANICSBURG**,
Power Tool Service Company
34 West Allen St., **17055**
(717) 697-8233 (800) 382-1204

(PITTSBURGH) **NEVILLE ISLAND**,
Construction Rental & Supply
5601 Grand Ave., **15225**
(412) 269-9109

PHILADELPHIA, Laman Loesche Supply Co.
302 Moore Street, **19148**
(215) 467-6200

PHILADELPHIA, Regent Hydraulic & Machine Works, Inc.
4051 Cresson Street, **19127**
(215) 482-2050

PITTSBURGH, Construction Tool Service
3500 Liberty Ave., **15201**
(412) 681-6673

PITTSBURGH, H K McJunkin Inc.
7724 Edgewood Ave., **15218**
(412) 271-5400
(Kollmann Only)

(PITTSBURGH) **WEST MIFFLIN**, A-1 Tool Maintenance, Inc.
700 Lebanon Road, **15122**
(412) 464-1985

YORK, General Tool & Repair, Inc.
2449 S. Queen St., **17402**
(717) 741-9592

PUERTO RICO

RIO PIEDRAS, Isla Supply Corp.
Carretera 181 KM1.8,
Expreso Trujillo Alto, **00929**
(787) 761-7355

RIO PIEDRAS, Ferretaria Abraham Inc.

Calle 16 S.O. 1534
Caparra Terrace, **00922**
(787) 782-6033

RHODE ISLAND

(PROVIDENCE) **WARWICK**, Electric Motor Service, Inc.
3070 Post Rd., **02886**
(401) 737-2534

SOUTH CAROLINA

CHARLESTON, Cameron & Barkley
2864 Azalea Drive, **29405**
(843) 745-6900

COLUMBIA, Mann Electric Repair Co.
3600 Main St., **29203**
(803) 252-7777 (800) 356-6266

GREENVILLE, Ameco
2106 Anderson Road, **29611**
(864) 295-7800

TENNESSEE

KNOXVILLE, Tennessee Armature & Electric Co., Inc.
3101 Galway St. **37917-6155**
(423) 524-3681

MEMPHIS, Jones Tool Service
1314 Madison Ave., **38104**
(901) 726-0191/0195

NASHVILLE, Hermitage Tool, Inc.
1034 4th Ave., S., **37210**
(615) 254-0820

TEXAS

AUSTIN, Austin Tool, Inc.
4303 Willow Springs Rd., **78745**
(512) 447-4905

ARLINGTON, Altaquip
5240 Fielder – North Plaza, **76012**
(817) 461-7373

CORPUS CHRISTI, Bush Hydraulics
2012 N. Lexington Blvd., **78409**
(512) 289-0441 (800) 580-2874

DALLAS, Big D Tool Center, Inc.
2535 Irving Blvd., **75207**
(214) 631-3731

HOUSTON, Hydraulic Equipment Service Co.
1021 N. San Jacinto St., **77002**
(713) 228-9601

HOUSTON, Tool Mart, Inc.
2412 Texas Ave., **77003**
(713) 222-8665

LUBBOCK, Lubbock Electric Company, Inc.
1108 34th St., **79405**
(806) 744-2336

MCALLEN, Rio Grande Plumbing Supply
1010 East Pecan, **78502**
(956) 686-9557

ODESSA, Engine Service & Supply Company
1902 N. Andrews Highway, **79761**
(915) 337-2386 (800) 441-0636

SAN ANTONIO, Electric Motor Service & Sales
1514 E. Commerce, **78205**
(210) 226-3462

UTAH

SALT LAKE CITY, Diamond Electric Motor Repair
1465 South 300 West, **84115**
(801) 484-4325 (888) 485-4325

VERMONT

SOUTH BARRE, Reynolds & Sons Inc.
Bridge Street, **05670**
(802) 479-0101

VIRGINIA

NORFOLK, Bryan Electric Company, Inc.
424 W. 25th St., **23517**
(757) 625-2525

RICHMOND, Roy's Electric Motor Service
3201 Norfolk St., **23230**
(804) 355-5713

ROANOKE, Magic City Supply, INC.
1603 Granby St. NE, **24012**
(540) 985-0822

WASHINGTON

SPOKANE, Safway Repair Company
1507 E. Riverside, **99220**
(509) 535-9841 (800) 348-4808

TACOMA, Center Electric Co.
1212 S. 30th St., **98409**
(253) 383-4416

SEATTLE, Poppleton Electric & Machinery Co., Inc.
969 South Nebraska St., **98108**
(206) 762-9160

WEST VIRGINIA

(CHARLESTON) **POCA**, Ohio Tool Systems, Inc.
102 Harris Drive, **25159**
(304) 755-5030

HUNTINGTON, Lawter Electric Motor Co.
202 Adams Ave, **25701**
(304) 522-8297

WISCONSIN

GREEN BAY, Power Tool Service
310 N. Webster Ave., **54301**
(920) 437-2594

PEWAUKEE, Jensen Equipment Co., Inc.
N.27 W23015 Roundy Dr., **53072**
(414) 513-8160 (800) 875-8875

CANADA

ALBERTA

CALGARY, K & M Saw Sharpening and Power Tool Repair
Bay 7, 5508 1st St., S.E., **T2H 2W9**
(403) 255-2282

EDMONTON, Century Sales & Service
4810 - 92 Ave., **T6B 2X4**
(403) 468-3366

EDMONTON, OK Power Tool Repair Ltd.
5736 - 130A St., **T6H 2J5**
(780) 431-0970

BRITISH COLUMBIA

LANGLEY, AC Power Tool Clinic Ltd.
105 19835 56th Ave., **V3A 3Y1**
(604) 530-3550

VANCOUVER, Armature Electric Ltd.
275 West 4th Ave., **V5Y 1G8**
(604) 879-6141

MANITOBA

WINNIPEG, Westburne Industrial Enterprises Ltd.
1300 St. Matthews Ave., **R3G 3K4**
(204) 786-7861

NOVA SCOTIA

HALIFAX, Maritime Lawn & Garden
2756 Gladstone St., **B3K 4W5**
(902) 455-0208

ONTARIO

LONDON, A. C. Jenkins Electric Repair Ltd.
1188 Frances St., **N5W 2M1**
(519) 451-4020

OTTAWA, Mytek Power Tools Service
2535 Blackwell St. Unit 110, **K1B 4E4**
(613) 749-7294

(HAMILTON) **STONEY CREEK**, Charles Jones Industrial Ltd.,
237 Arvin Ave., **L8E 5S6**
(905) 664-8448

SARNIA, Serv-A-Tool & Repairs
866 Philip St., Unit F, **N7T 1Z6**
(519) 344-8837

(TORONTO) **WESTON**,
Pipe Tools Repair & Service Centre Ltd.
114 Rivalda Rd., **M9M 2M8**
(416) 749-5830

QUEBEC

QUEBEC CITY, Clinique D'Outillage MP, Inc.
3075 Boulevard Hamel, Apt. 107, **G1P 4C6**
(418) 877-3371

MONTREAL, Leger Hoist Equipment, Inc.
7995 17th Ave., **H1Z 3R2**
(514) 376-3050

(MONTREAL) **LAVAL**,
Centre de Reparations Hydrauliques Uptown Ltee
464 St. Hubert, **H7G 2Y9**
(514) 387-6143 or 387-7566

SHERBROOKE, Do-Mar Electrique Inc.
1136 Rue King Est, **J1G 1E4**
(819) 563-2234

**What is covered**

RIDGID® tools are warranted to be free of defects in workmanship and material.

How long coverage lasts

This warranty lasts for the lifetime of the RIDGID® tool. Warranty coverage ends when the product becomes unusable for reasons other than defects in workmanship or material.

How you can get service

To obtain the benefit of this warranty, deliver via prepaid transportation the complete product to RIDGE TOOL COMPANY, Elyria, Ohio, or any authorized RIDGID® INDEPENDENT SERVICE CENTER. Pipe wrenches and other hand tools should be returned to the place of purchase.

What we will do to correct problems

Warranted products will be repaired or replaced, at RIDGE TOOL'S option, and returned at no charge; or, if after three attempts to repair or replace during the warranty period the product is still defective, you can elect to receive a full refund of your purchase price.

What is not covered

Failures due to misuse, abuse or normal wear and tear are not covered by this warranty. RIDGE TOOL shall not be responsible for any incidental or consequential damages.

How local law relates to the warranty

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific rights, and you may also have other rights, which vary, from state to state, province to province, or country to country.

No other express warranty applies

This FULL LIFETIME WARRANTY is the sole and exclusive warranty for RIDGID® products. No employee, agent, dealer, or other person is authorized to alter this warranty or make any other warranty on behalf of the RIDGE TOOL COMPANY.

