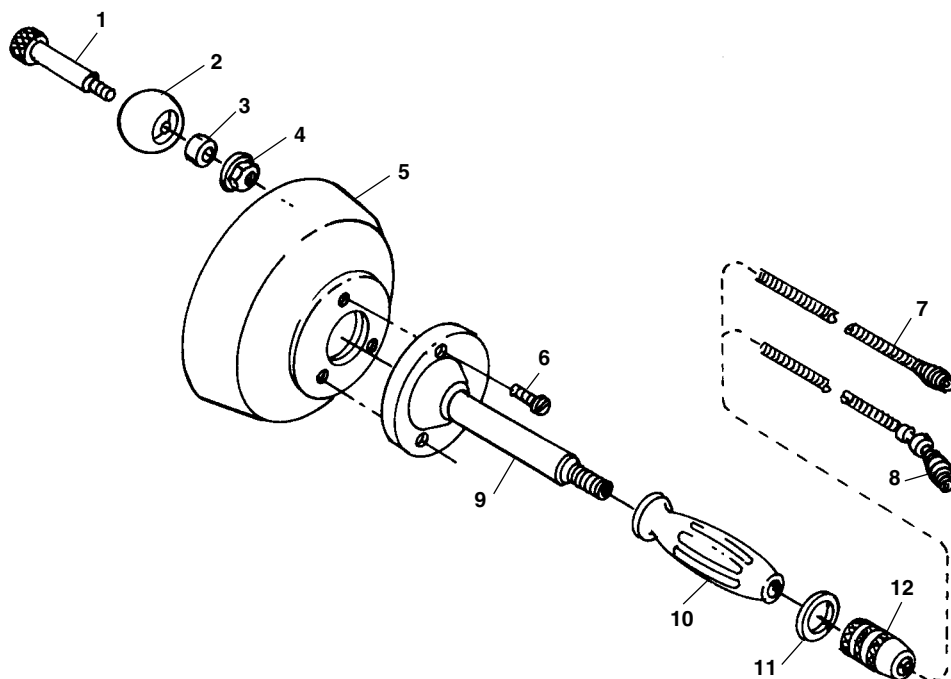


Parts Catalog

June 2007



K-25 Hand Spinner

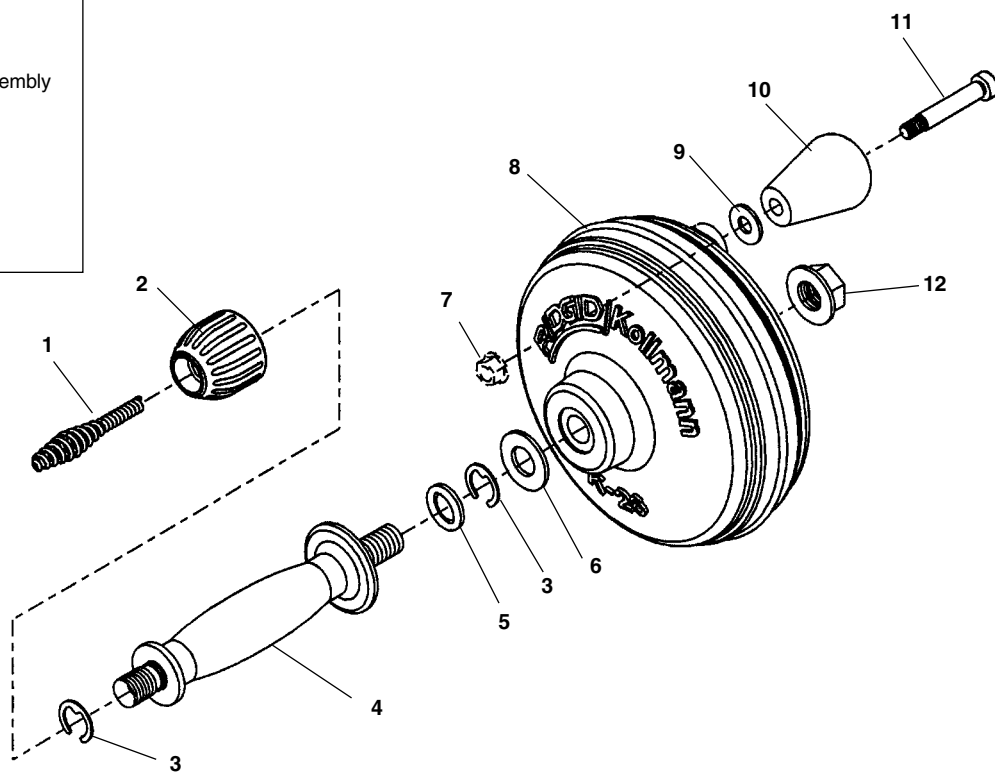


**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

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

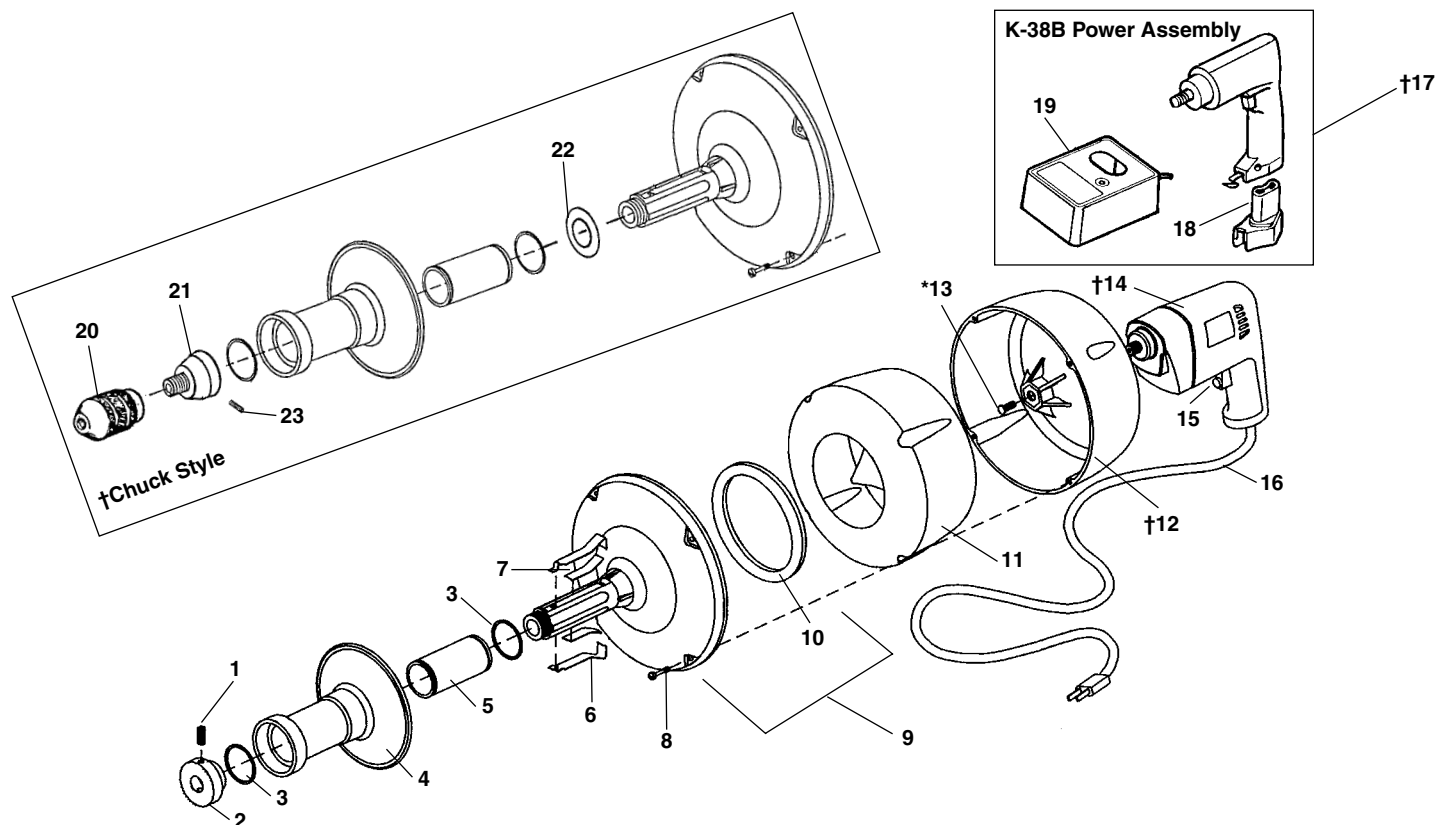
K-26 Hand Spinner

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	$\frac{5}{8}$ " - 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 $\frac{3}{16}$ " - 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	69542	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)			

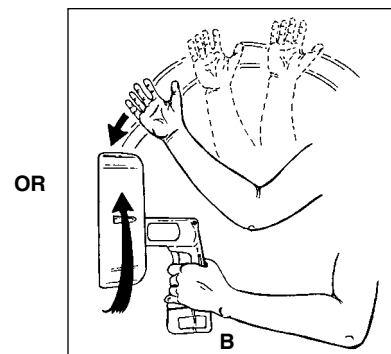
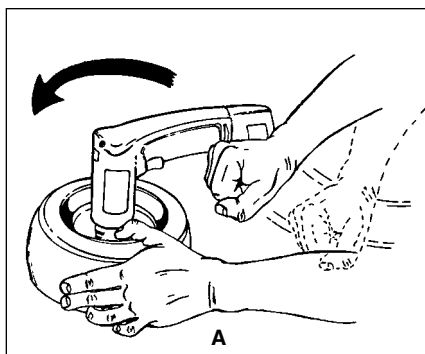
†See Service Notes

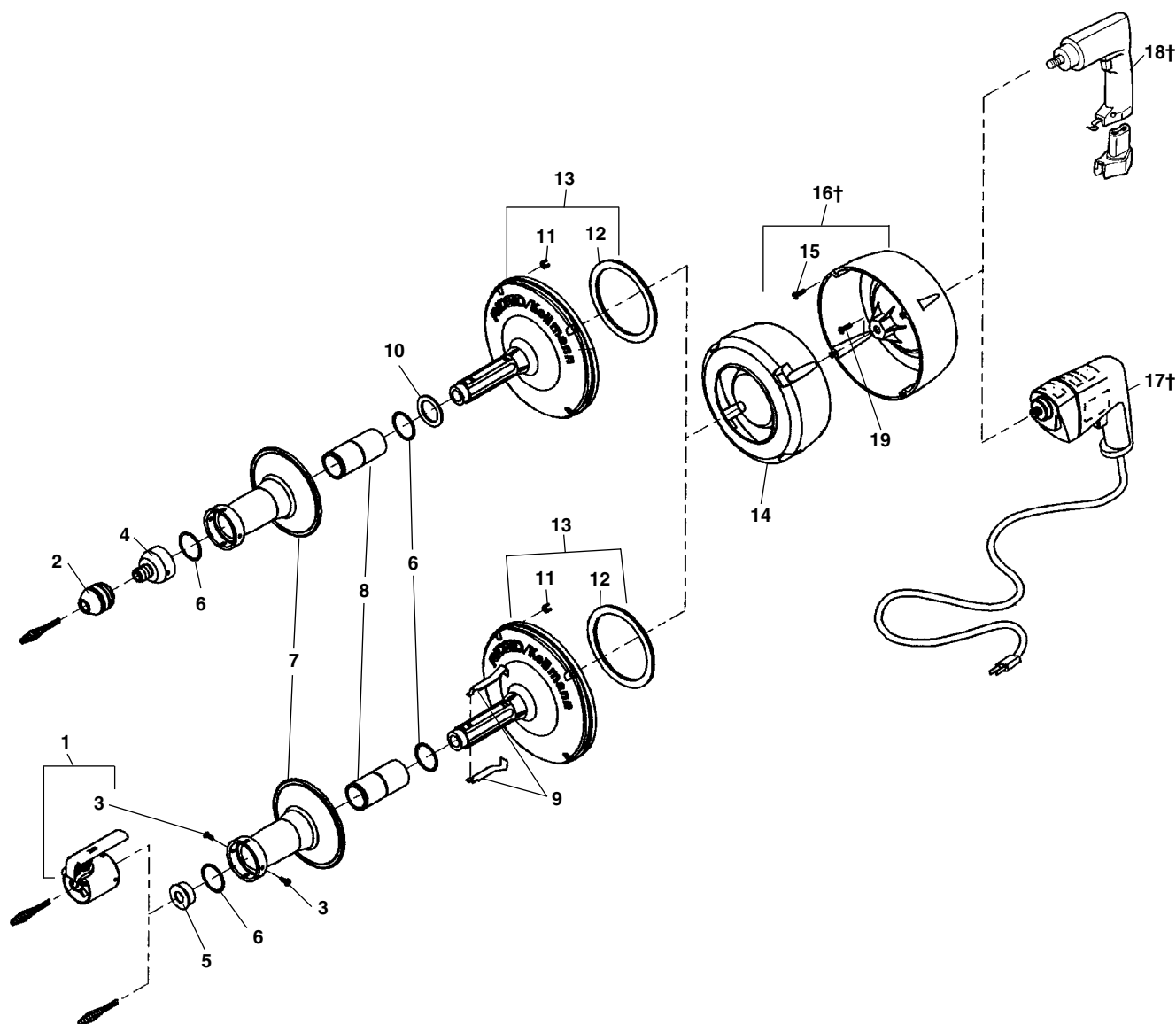
†Service Notes

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.



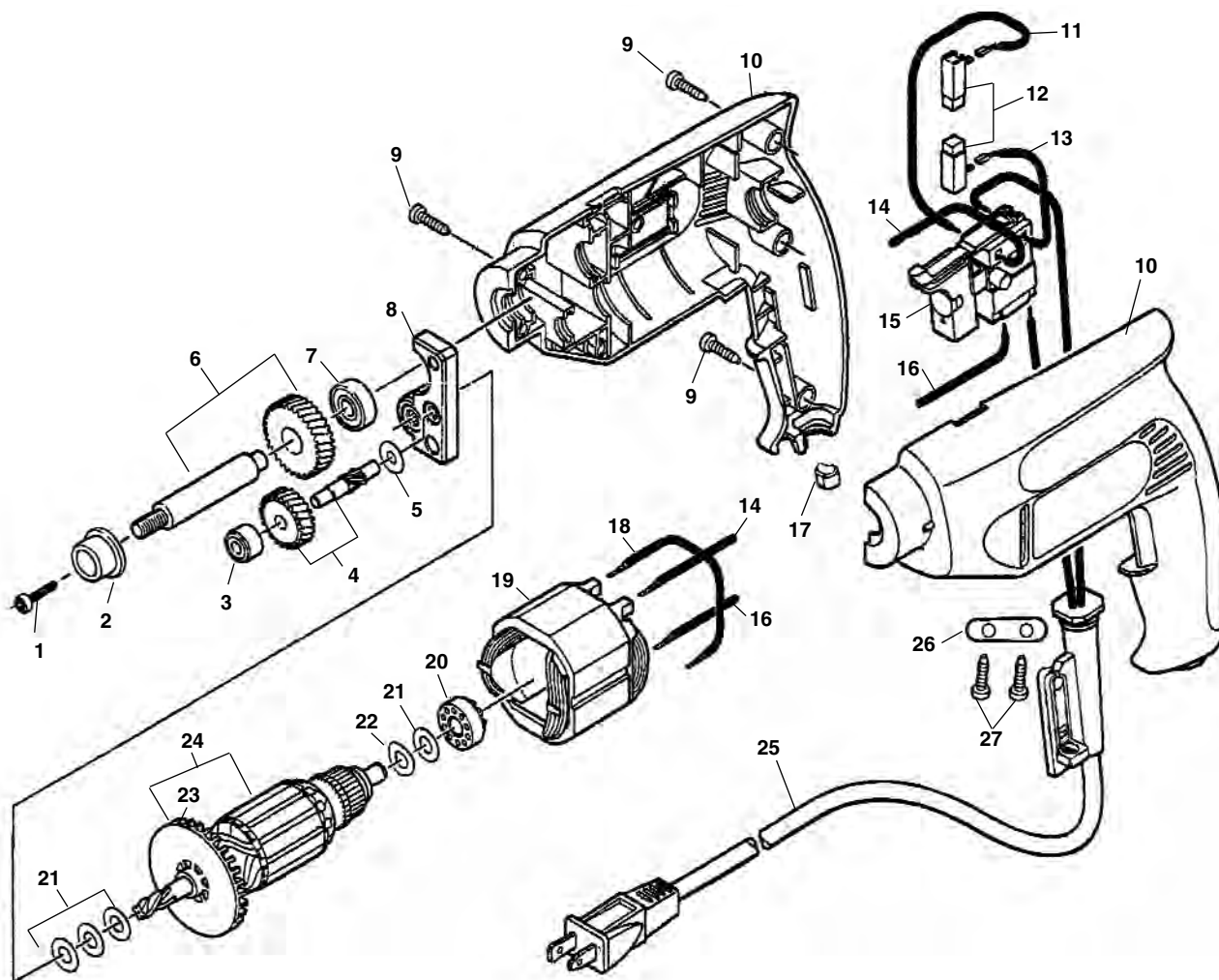


**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	67962	A-39 AUTOFEED®	12	47252	Gasket
2	55247	Cable Chuck	13	68927	Drum Front
3	68937	Pan Head Screw #10 - 24 (4)	14	68917	Drum Liner
4	55257	Chuck Adapter	15	69542	Screw #10 - 32 x 1" (4)
5	68957	Nose Piece	16†	68932	Drum Back
6	41512	Spiral Ring (2)	17†	73992	Power Unit (120V 60Hz)
7	41517	Hand Grip		68952	Power Unit (220/240V 50Hz)
8	68922	Sleeve	18†	18678	12DVC Power Unit with Battery
9	68947	Clamp Springs (2)	19	42402	Screw, K-39, K-39B 7.2V (*LH Thread)
10	55252	Spacer		19128	Screw, M5 (K-39B 2V, *LH Thread)
11	68942	Clips (4)			

† See Service Notes

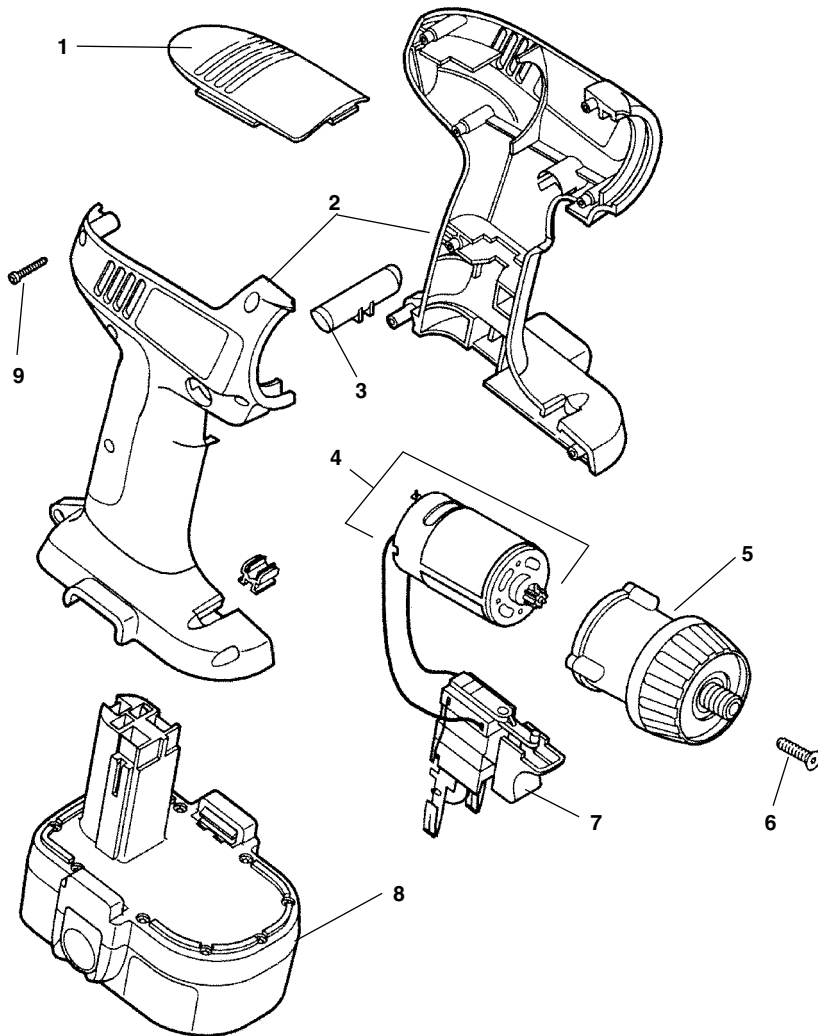
K-39 Power Unit, 115V



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

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)

PU-12 Power Unit 12VDC

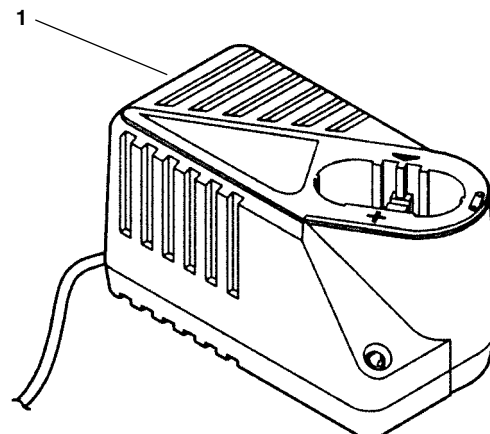


**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

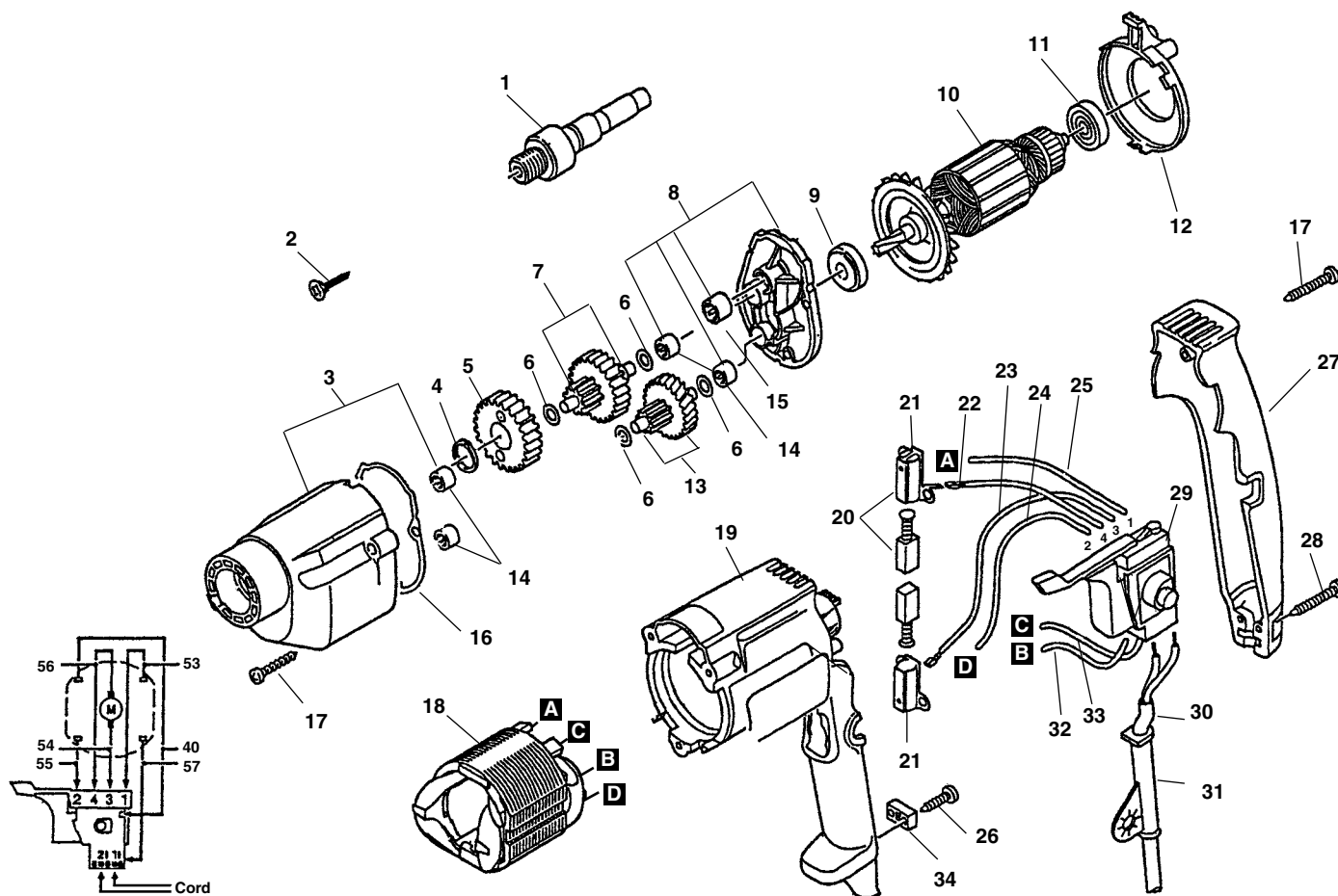
Ref. No.	Catalog No.	Description
—	18678	Power Unit with Battery
1	19033	Housing Cover
2	19018	Housing Set
3	19048	Switch Handle
4	19043	Motor
5	19038	Gear/Clutch Assembly
6	19128	Screw, Left Hand M5
7	19023	Switch
8	18658	Battery
9	19028	Screw, Housing (7)

Battery Charger 12VDC

Ref. No.	Catalog No.	Description
1	18663	Charger 120V 60Hz
	18668	Charger 230V 50Hz
	18673	Charger 240V 50Hz - Australia



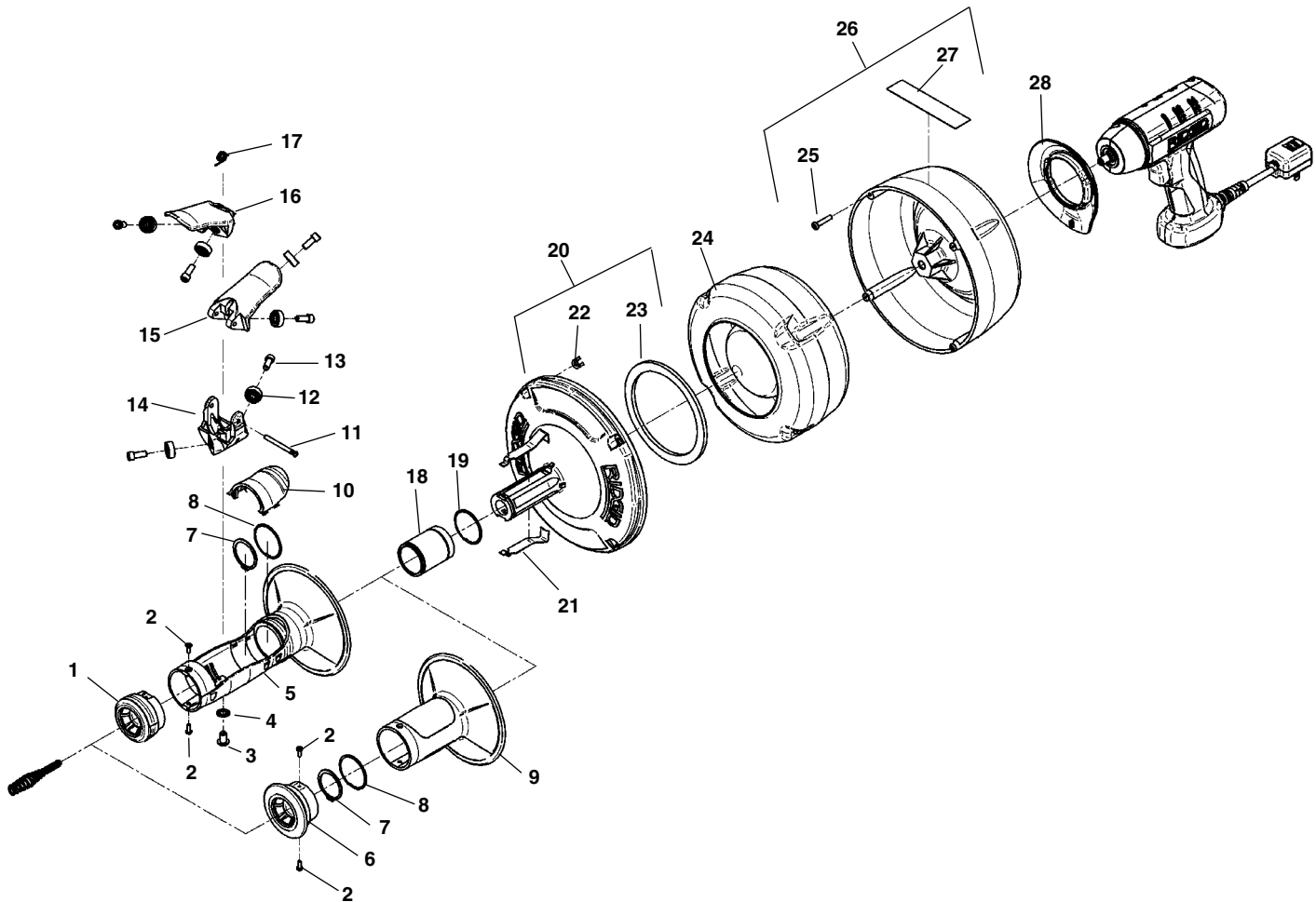
220V European Power Unit New Style



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

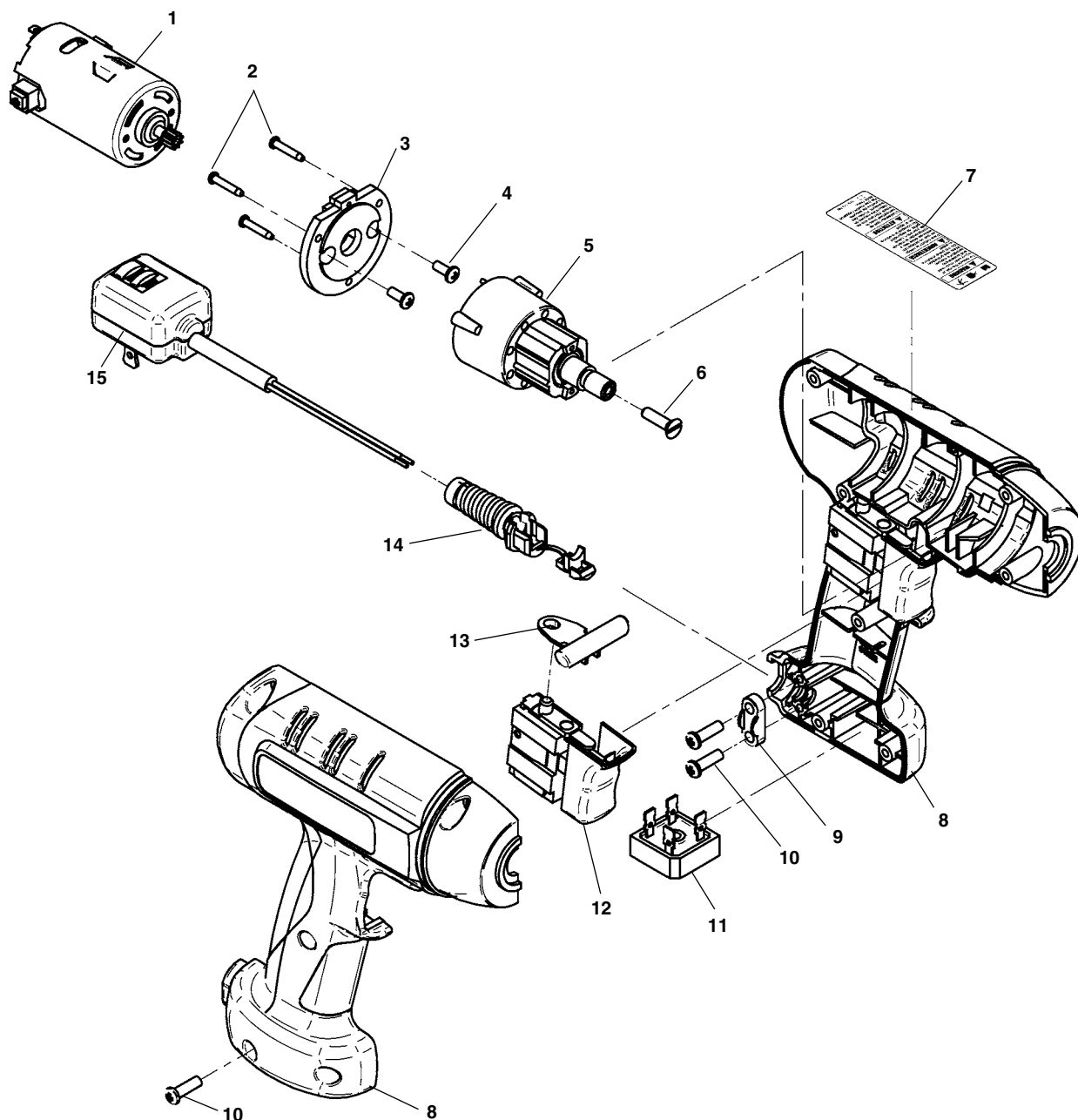
Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	19218	Spindle, 1/2" x 20	19	19228	Motor Housing
2	19208	Screw, LH	20	19233	Brush Set
3	21258	Gear Housing Assembly	21	19193	Brush Holder
4	21288	Retaining Ring	22	21318	Wire, 88mm
5	21293	Gear	23	21308	Wire, 48mm
6	21328	Shim	24	21313	Wire, 78mm
7	21263	Gear w/Pinion	25	21303	Wire, 117mm
8	21248	Int. Plate Assembly	26	19198	Screw, Clamp Holder
9	19183	Ball Bearing	27	19248	Handle Cover
10	19158	Armature	28	19213	Screw, Handle
11	19188	Ball Bearing	29	19163	Switch
12	21253	Baffle	30	19168	Cord
13	21268	Gear w/Pinion	31	19173	Strain Relief
14	21278	Needle Bearing	32	21323	Wire, 122mm
15	21298	Needle Bearing	33	21283	Wire, 162mm
16	21273	Gasket	34	19178	Cord Clamp
17	19203	Screw, Handle	—	19223	Capacitor, RFI
18	19153	Field			

New AUTOFEED® Style



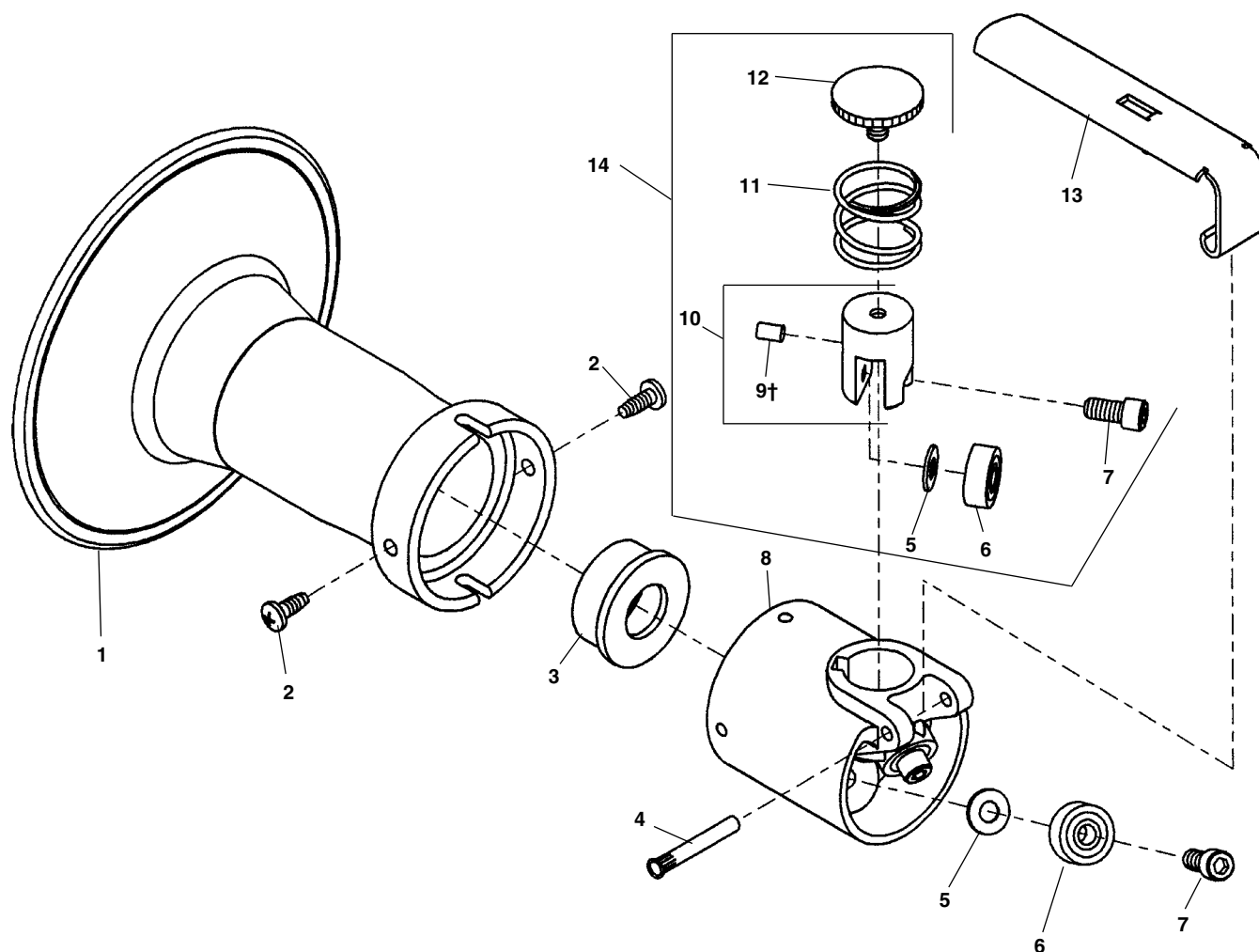
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	24163	Nose Piece, Auto	11	24208	Pivot Pin	21	24243	Clamp Spring
2	24168	Screw	12	67997	Roller Bearing	22	68942	Clips
3	24178	Button Screw 5/16"-18	13	39830	Socket HD Cap Screw	23	47525	Gasket
4	92255	Lock Washer	14	24213	Auto Feed Carriage	24	68917	Drum Liner
5	24183	Hand Grip, Auto	15	24218	Reverse Lever	25	69542	Screw #10-32 X 1"
6	24188	Nose Piece, Manual	16	24223	Forward Lever	26	68932	Drum Back
7	24193	Retaining Ring	17	24228	Torsion Spring	27	24248	Caution Label
8	41512	Spiral Ring	18	24233	Sleeve	28	24253	Trigger Guard
9	24198	Hand Grip, Manual	19	41512	Spiral Ring			
10	24203	Top Grip Cap	20	24238	Drum Front			



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

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
—	24138	Power Unit 115V	8	24103	Housing Set
—	24143	Power Unit 230V	9	24018	Cord Clamp
1	24078	Motor 115V	10	24113	Screw, #8 x .62
	24148	Motor 230V	11	21758	Rectifier
2	24083	Screws	12	24118	Switch 115V
3	24088	Adapter		24153	Switch 230V
4	17106	Screw, M4 x 10	13	24123	Reversing Lever
5	24093	Gearbox	14	21768	Stain Relief
6	19128	Screw, LH M5	15	24128	Linecord 115V
7	24098	Warning Label		24158	Linecord 230V

AUTOFEED®


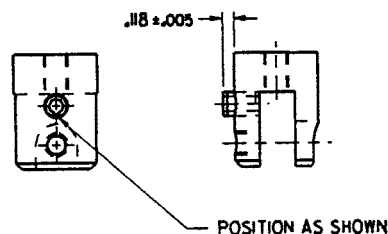
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

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 3/8"
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:
A) Top surface and threads of item #7 (Top Adjustment Screw)
B) Outside Dia. of item #10 (Roller Holder)
- Locate slot in Roll Pin item #9 at six-o'clock position and press to dimension shown

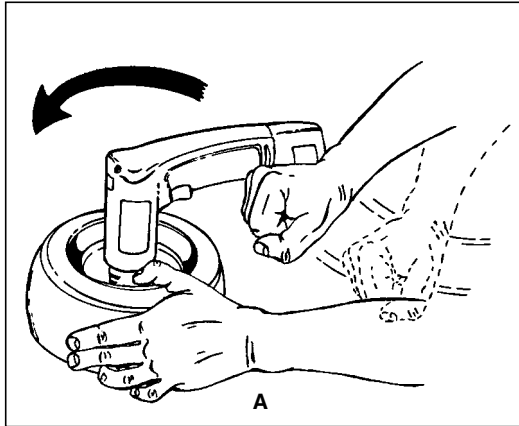


POSITION AS SHOWN

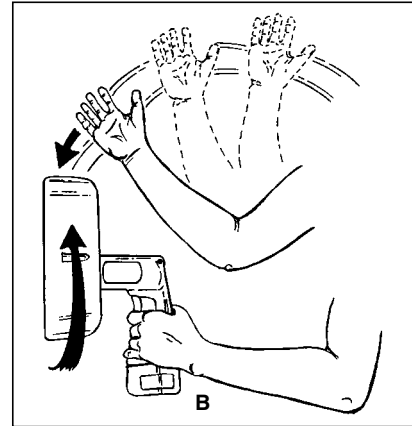
Service Notes

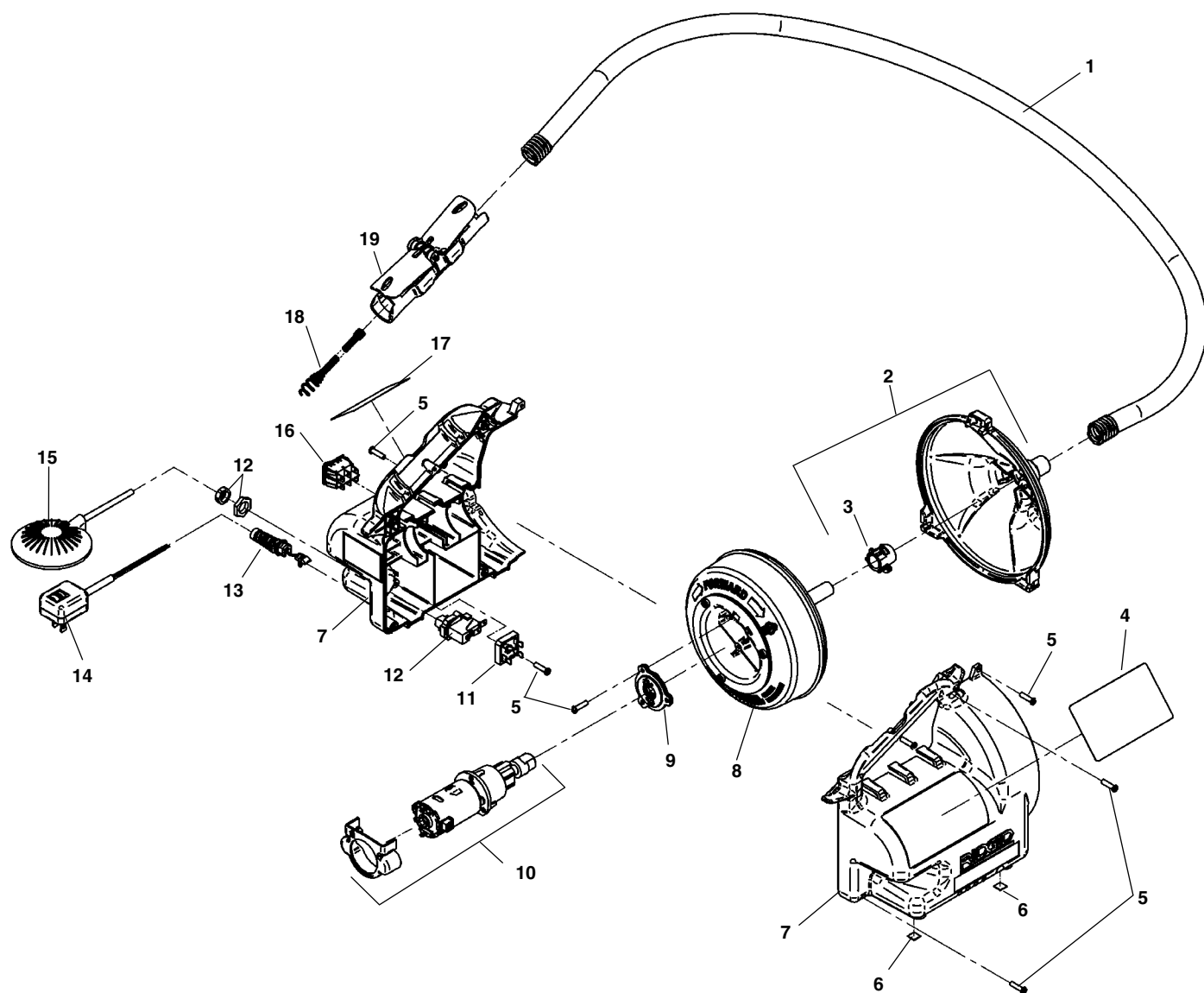
Service Notes

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



OR

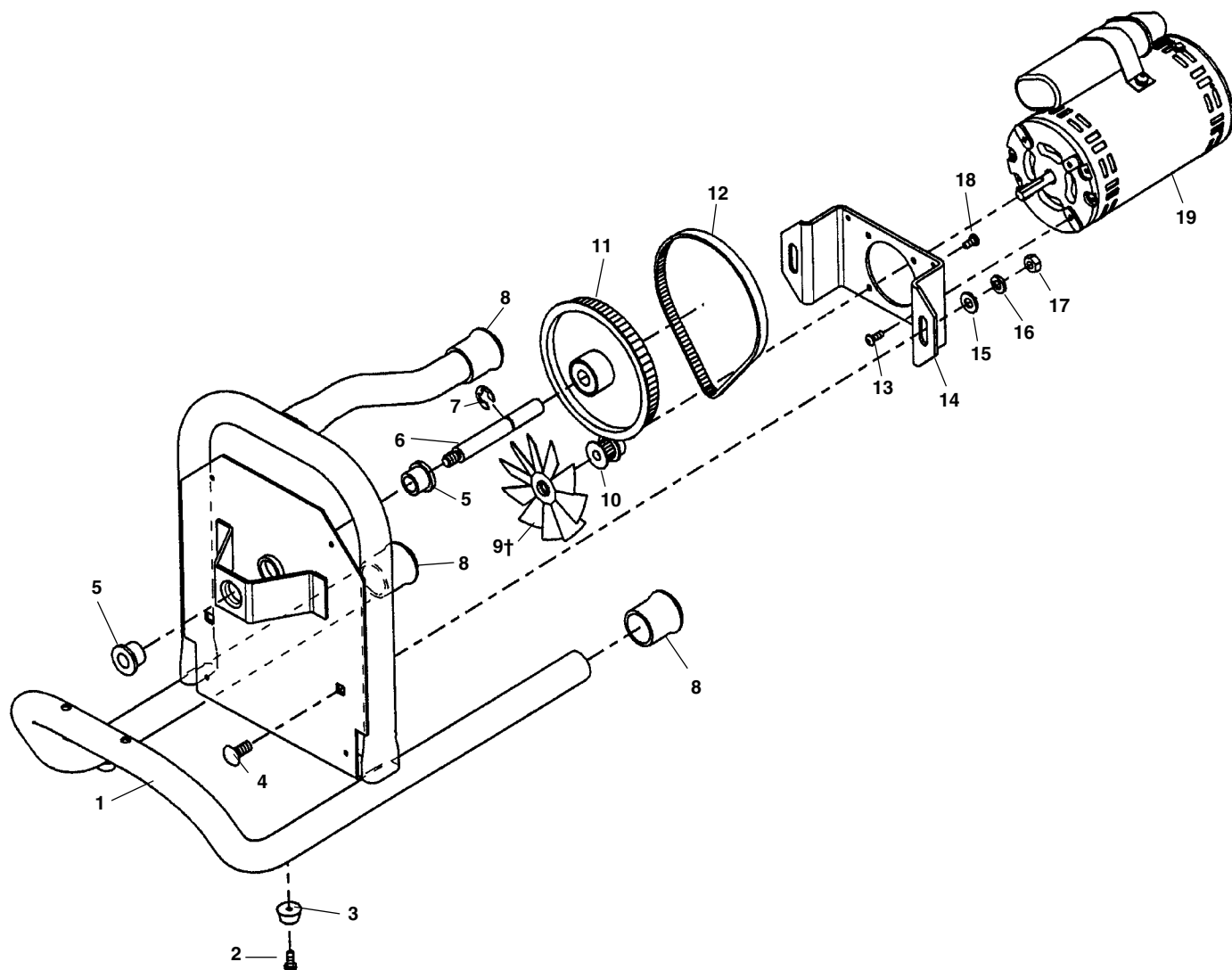




**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	21713	Guide Hose	11	21758	Rectifier
2	21718	Front Housing	12	21763	Air Switch Assembly
3	21808	Bushing	13	21768	Strain Relief
4	21723	Warning Label	14	21773	Power Cord
5	21728	Pk of 5 Screws	15	21783	Footbulb
6	21733	Pk of 4 Rubber Foot	16	21778	Switch
7	21738	Machine Housing	17	21788	ON/OFF Label
8	21753	Drum Assembly	18	21338	Cable, 1/4" - 30' IC
9	21748	Clutch Assembly	19	21793	AUTOFEED® Assembly
10	21743	Motor Assembly			

Motor/Frame Assembly

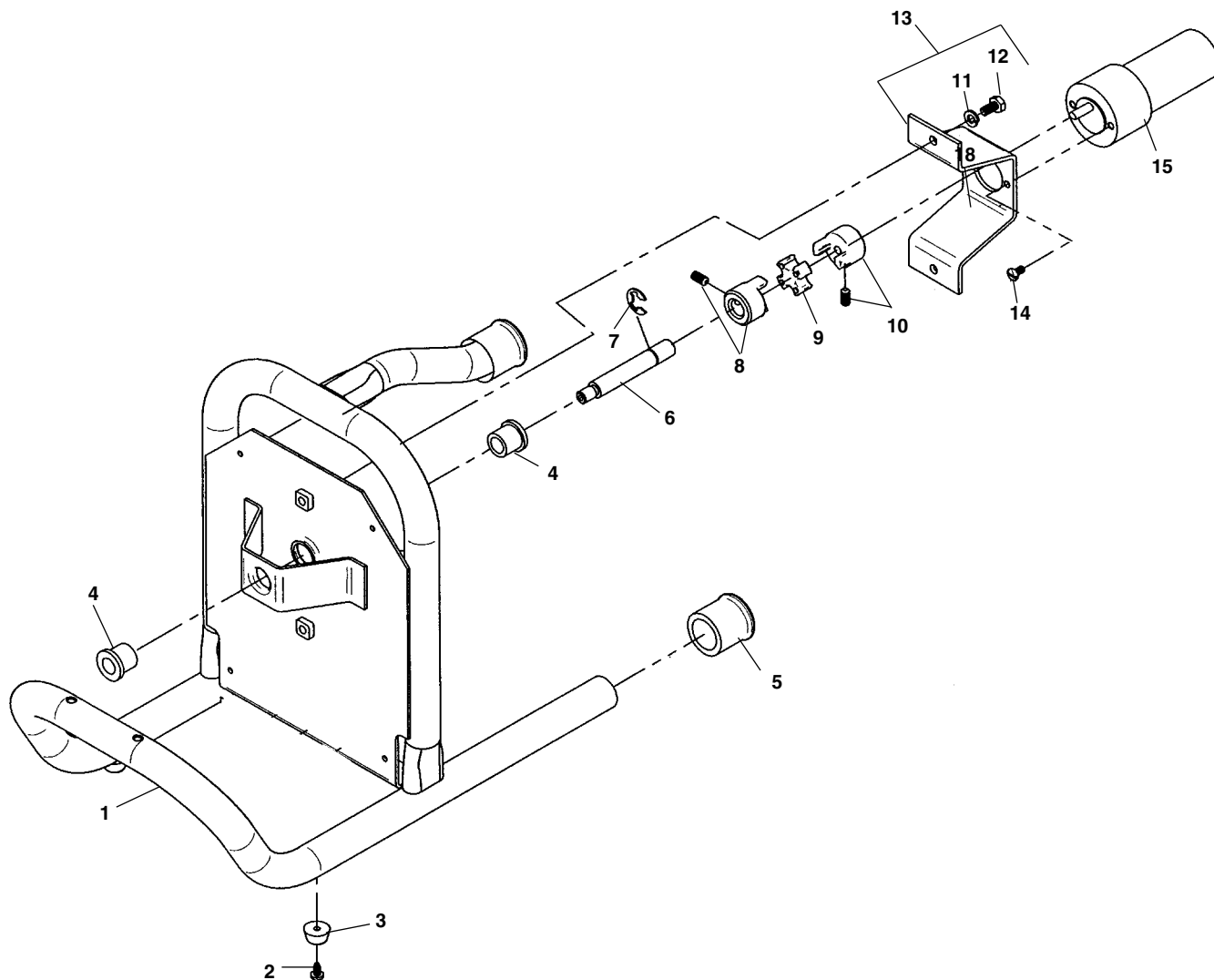


NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	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.

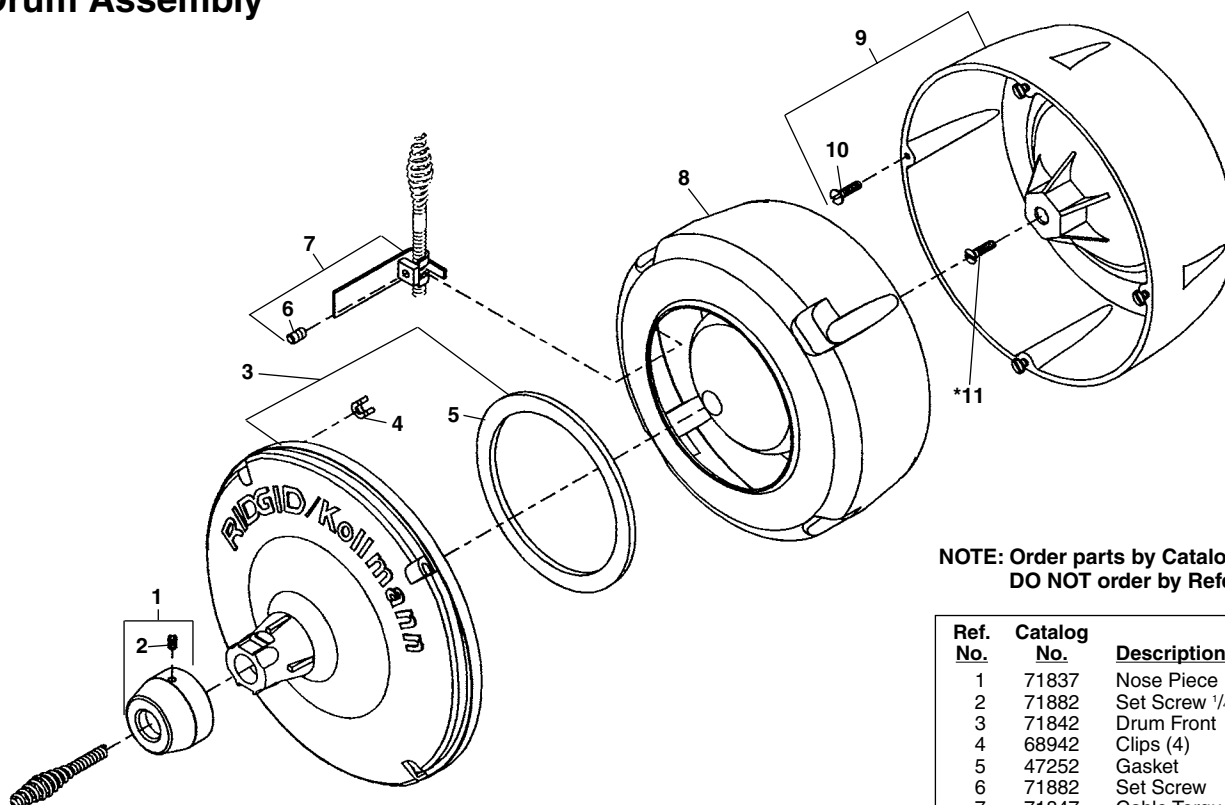
Motor/Frame Assembly



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

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

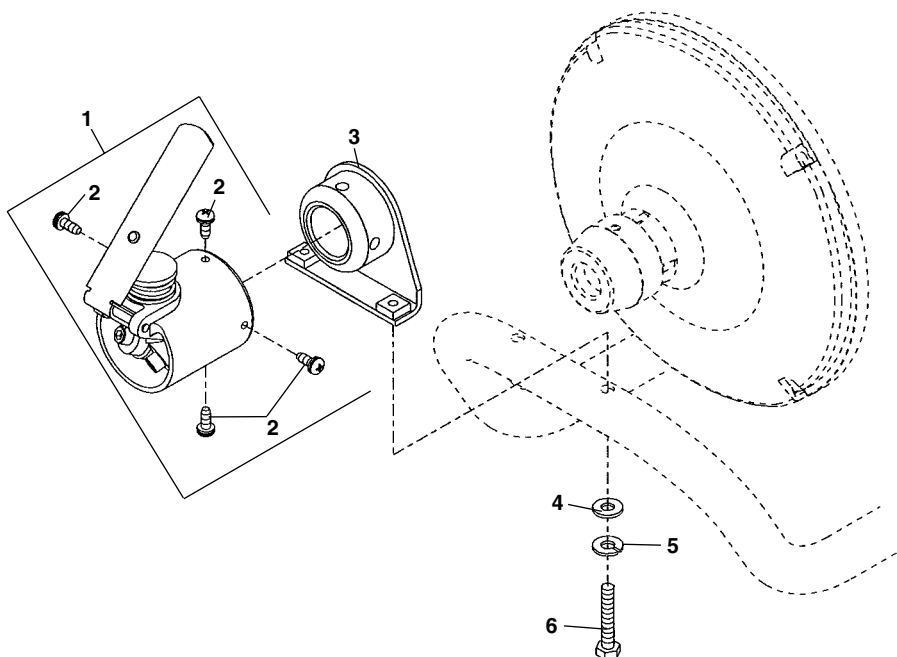


NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.

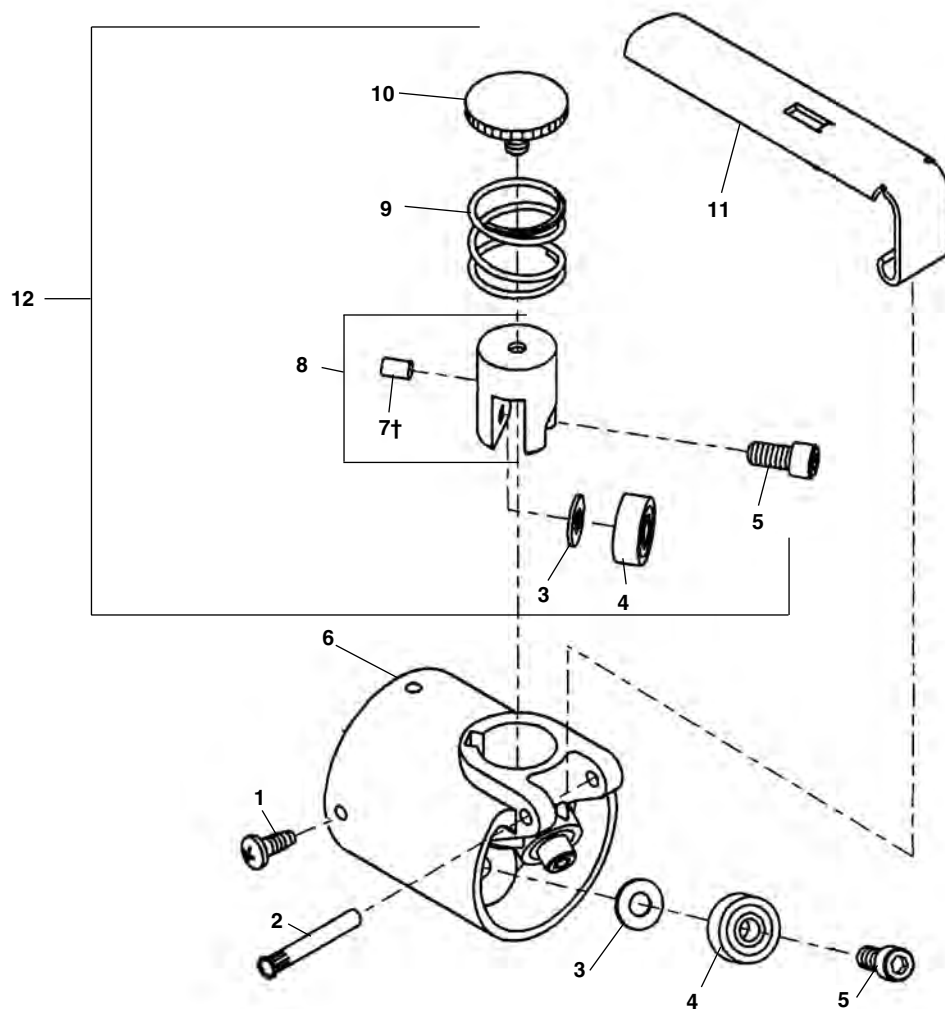
Ref. No.	Catalog No.	Description
1	71837	Nose Piece
2	71882	Set Screw $\frac{1}{4}$ " - 20 x $\frac{1}{2}$ "
3	71842	Drum Front
4	68942	Clips (4)
5	47252	Gasket
6	71882	Set Screw
7	71847	Cable Torque Arm
8	68917	Drum Liner
9	68932	Drum Back
10	69542	Screw #10 - 32 x 1" (4)
*11	76775	Screw L.H. Thread

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



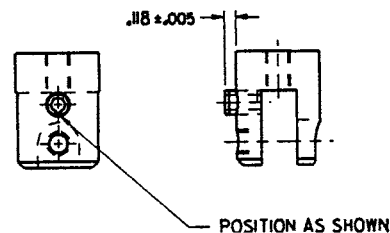
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
—	67962	A-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:

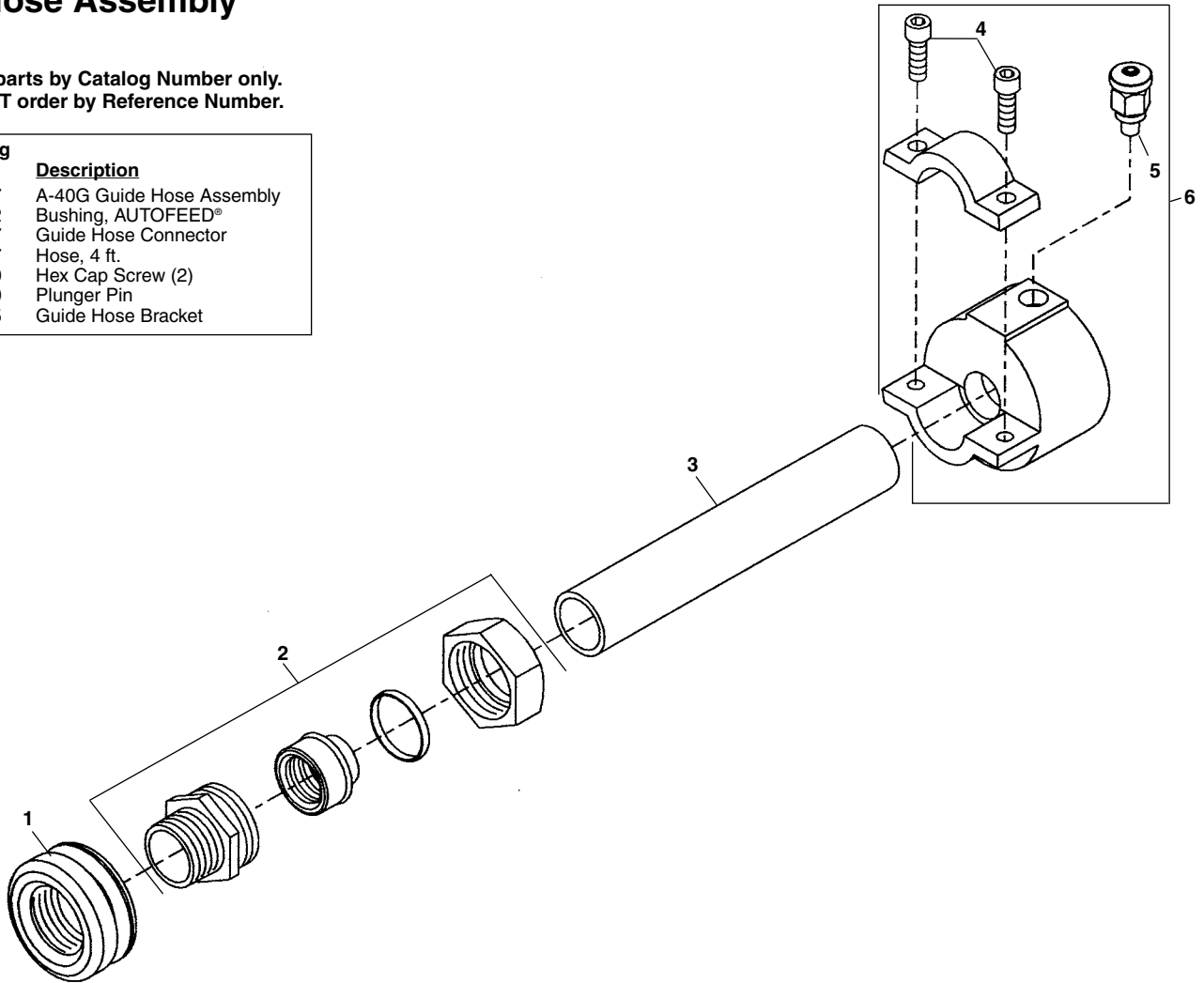
- 1) Apply Texclad #2 grease to the following areas:
A) Top surface and threads of item #15 (Top Adjustment Screw)
B) Outside Dia. of item #13 (Top Roller Holder)
- 2) Locate slot in Roll Pin item #12 at six-o'clock position and press to dimension shown



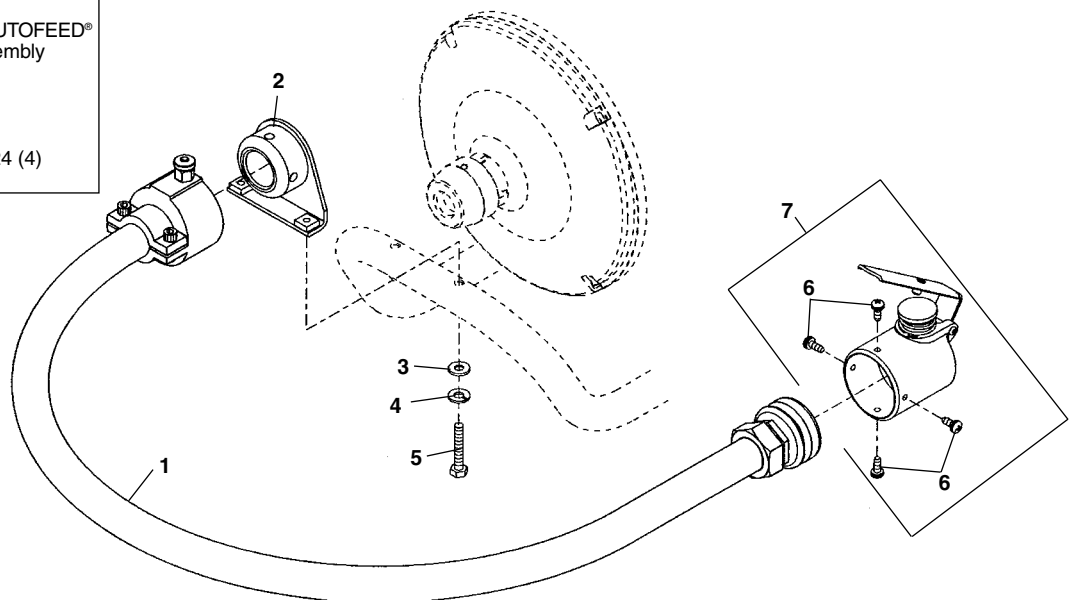
Guide Hose Assembly

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

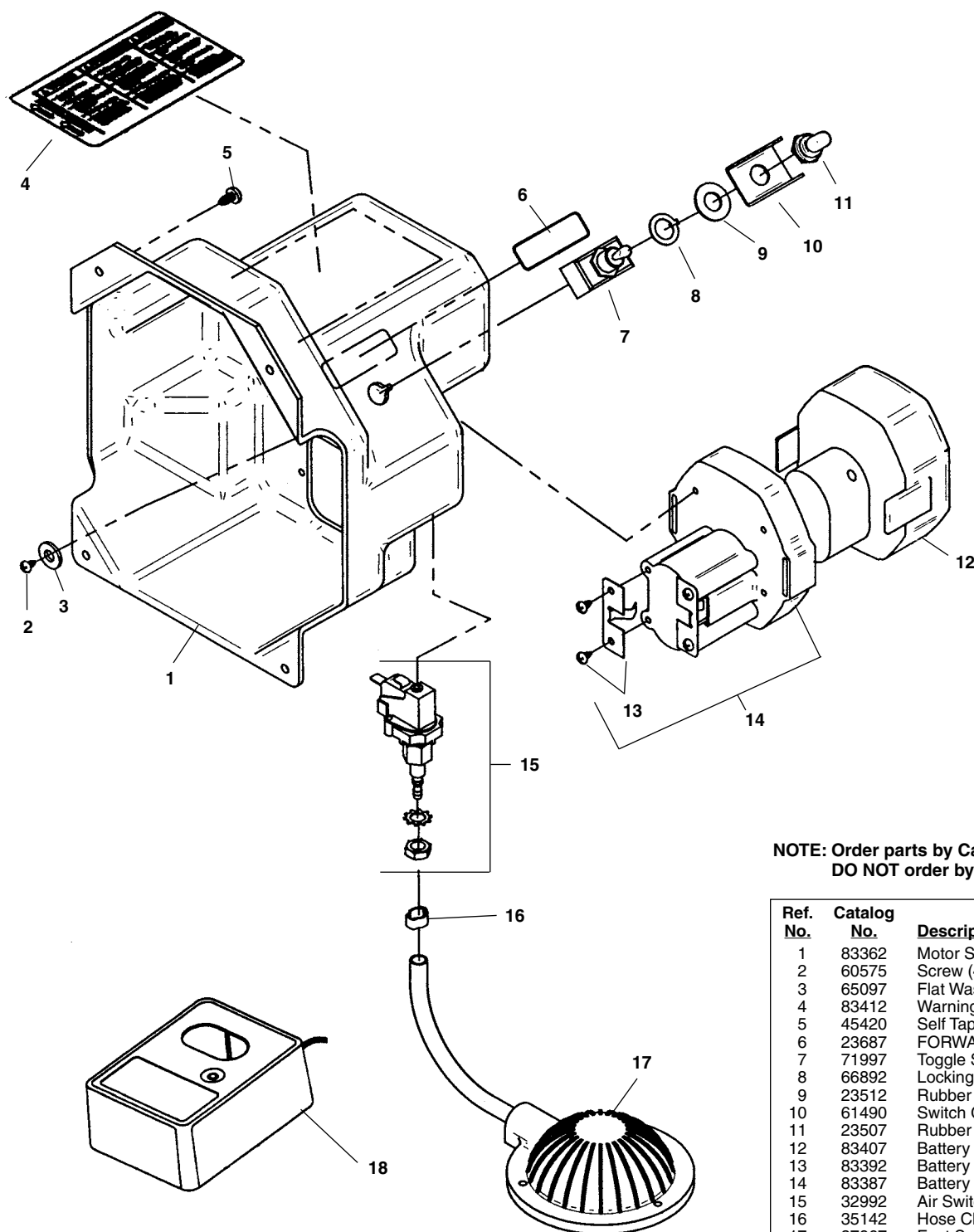
Ref. No.	Catalog No.	Description
—	71757	A-40G Guide Hose Assembly
1	72472	Bushing, AUTOFEED®
2	72477	Guide Hose Connector
3	72467	Hose, 4 ft.
4	40910	Hex Cap Screw (2)
5	59510	Plunger Pin
6	59815	Guide Hose Bracket



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®



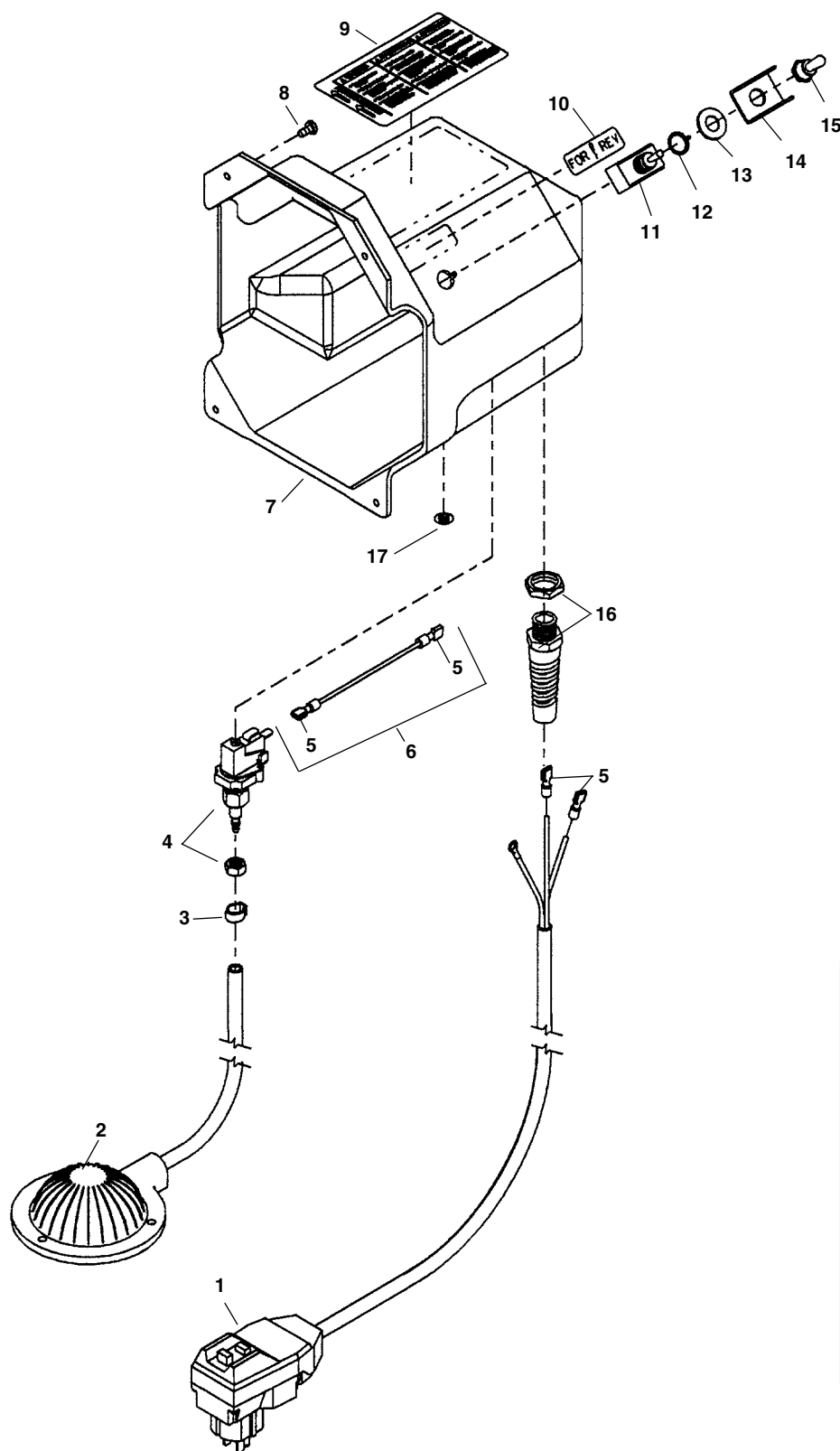
Electric Components



**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.

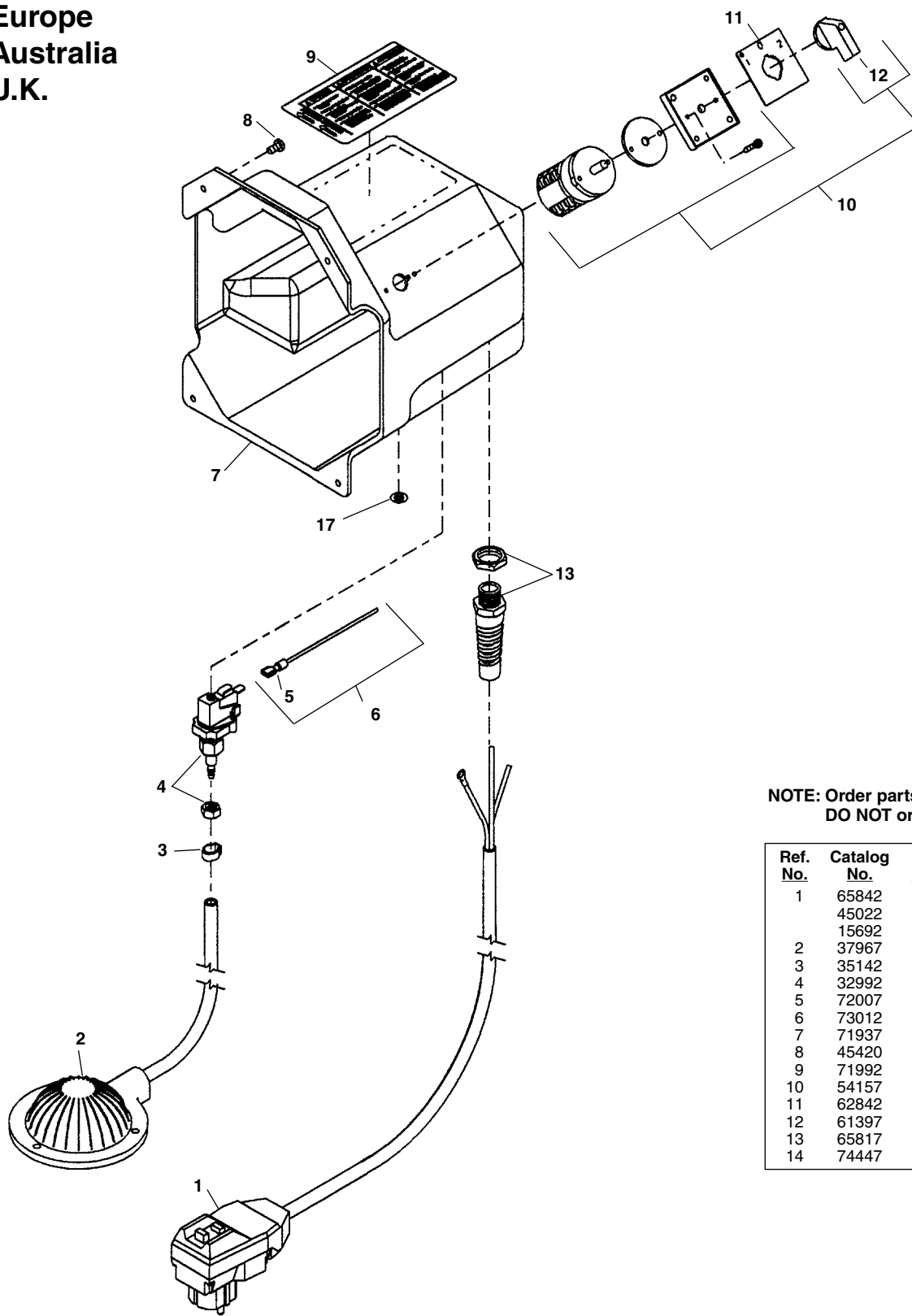
Ref. No.	Catalog No.	Description
1	72002	Line Cord w/GFCI - 115V
	66882	Line Cord - 100V Japan
	15707	Line Cord - 230V Export
2	37967	Foot Switch Assembly
3	35142	Hose Clamp
4	32992	Air Switch
5	72007	Quick Disconnect (4)
6	73012	Lead Wire
7	71937	Shroud
8	45420	Self Tapping Screw #10 - 24 (8)
9	71992	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.

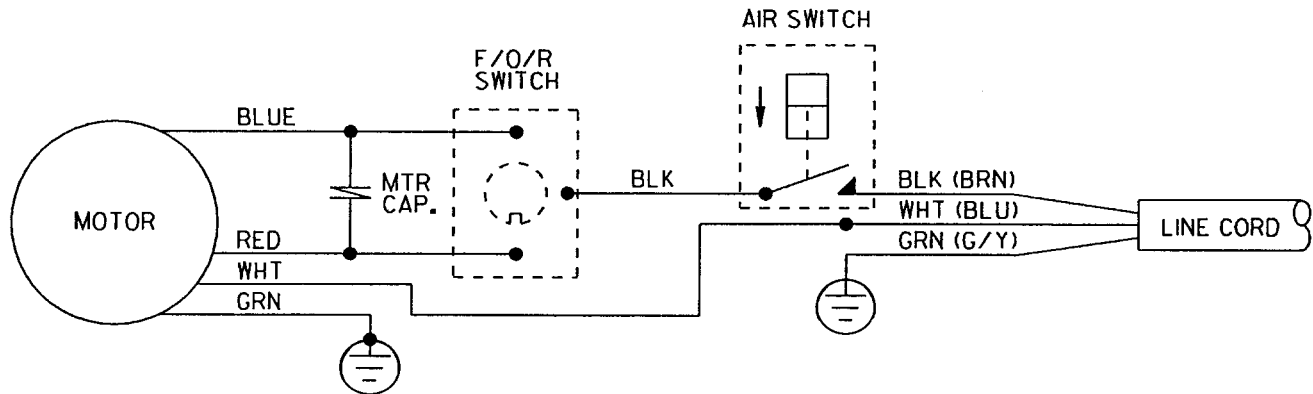


**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

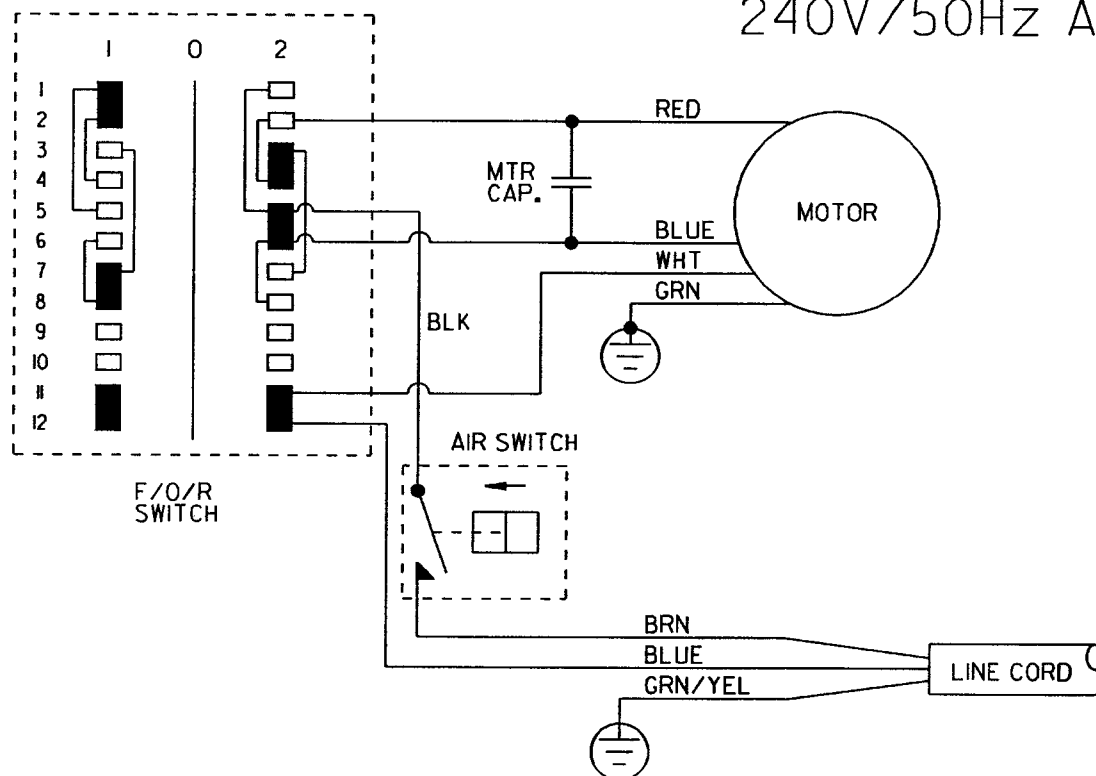
Ref. No.	Catalog No.	Description
1	65842	Line Cord w/GFCI-220V Europe
	45022	Line Cord w/Plug 110V U.K.
	15692	Line Cord w/Plug 240V Australia
2	37967	Foot Switch Assembly
3	35142	Hose Clamp
4	32992	Air Switch
5	72007	Quick Disconnect
6	73012	Lead Wire
7	71937	Shroud
8	45420	Self Tapping Screw #10 -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

K-40 Wiring

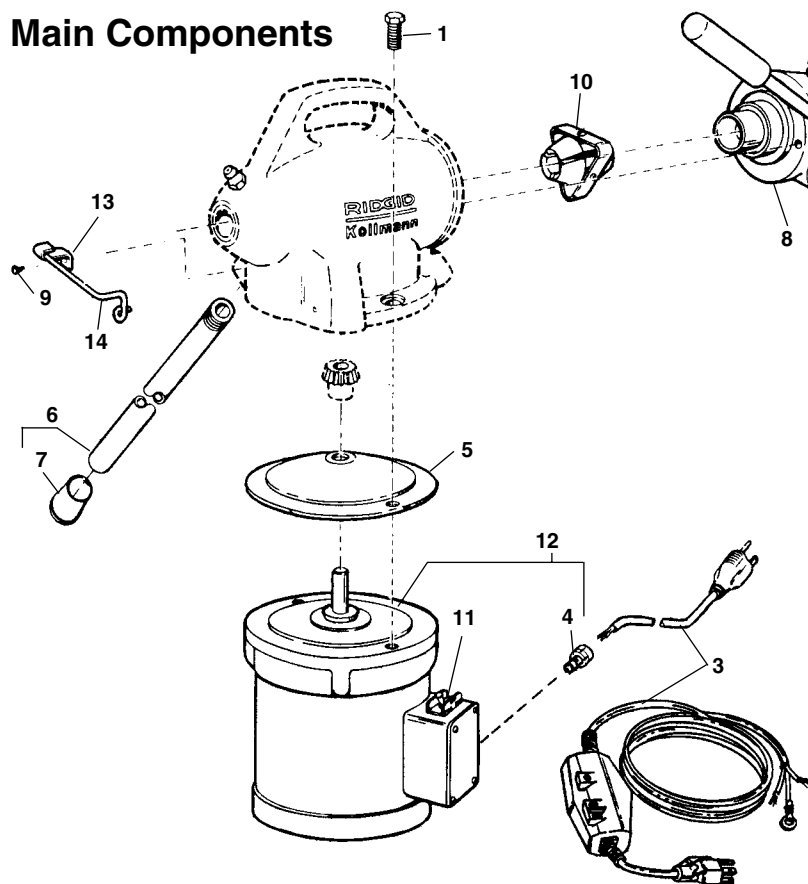
MOTOR WIRING DIAGRAM
 115V/60Hz
 230V/50Hz EXPORT
 100V/50-60Hz JAPAN



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



Main Components

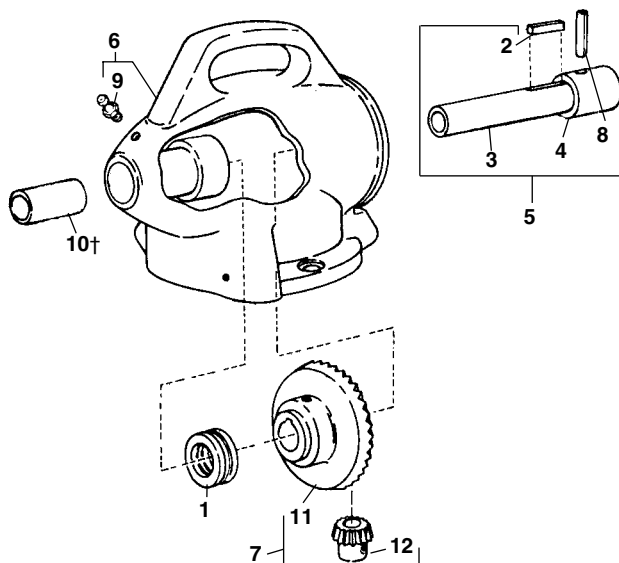


**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

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

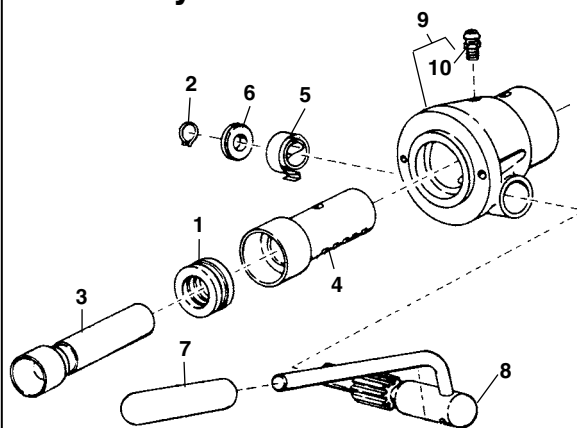
Bevel Gear and Related Parts



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



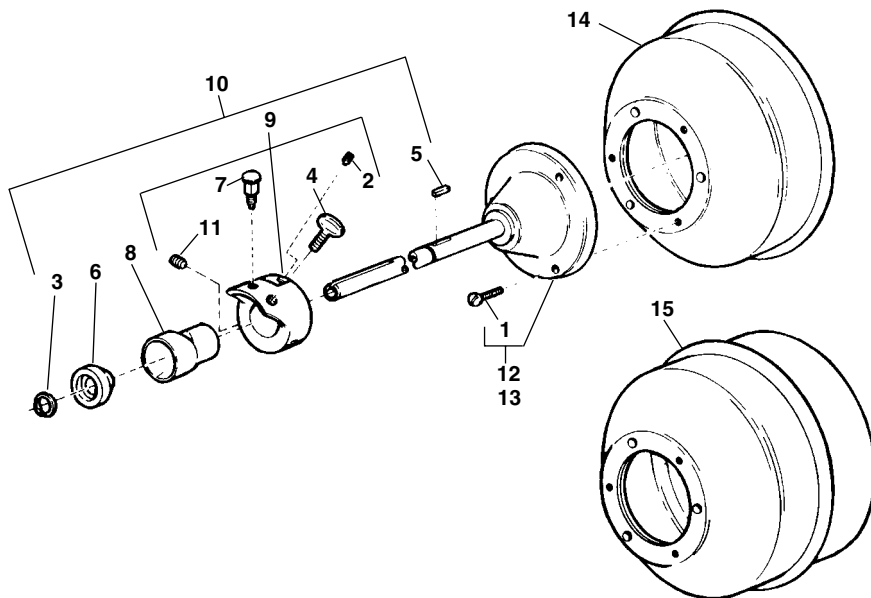
Ref. No.	Catalog No.	Description
—	59975	Rack & Pinion Assembly
1	59945	Bearing
2	60860	Retaining Ring
3	61580	Rear Clutch Cone Sleeve
4	61585	Gear Rack
5	61595	Pinion Spring
6	61600	Pinion Stem Washer
7	61605	Handle Grip
8	59980	Handle with Pinion Assembly
9	60965	Rack and Pinion Housing (Incl. Ref.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

Cable Adapters

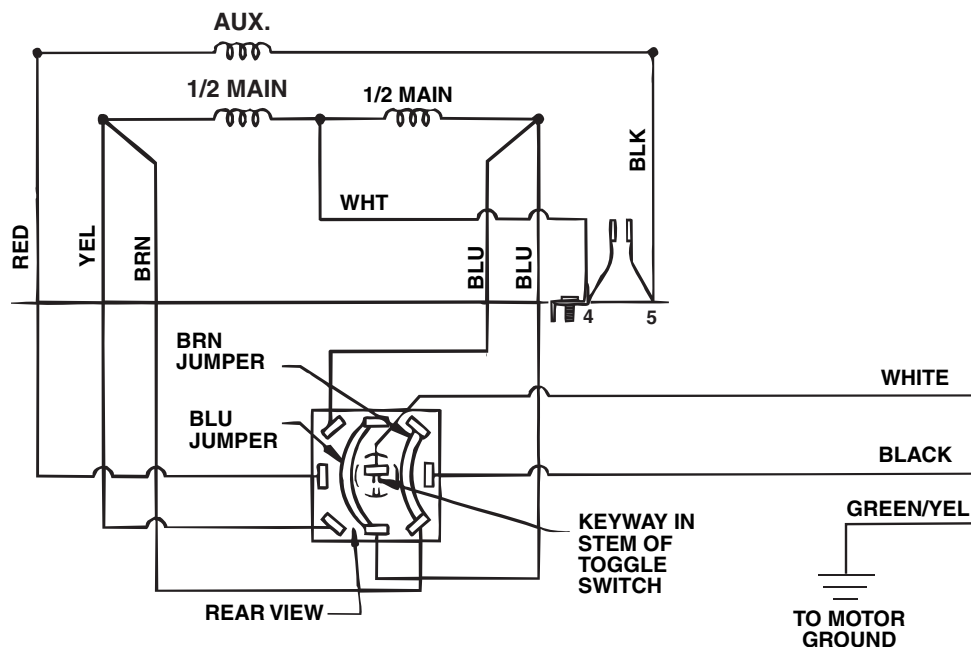
Cable No.	Description
59250	A-17-A Cable Adapter (Includes C-1 Cable - $\frac{5}{16}$ " x 25' long with Bulb Auger)
59245	A-17-A Cable Adapter - Less Cable
59255	A-17-B Cable Adapter (Includes C-5 Cable - $\frac{3}{8}$ " x 35' long with Bulb Auger)
59260	A-17-B Cable Adapter - Less Cable
59265	A-17-C 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)

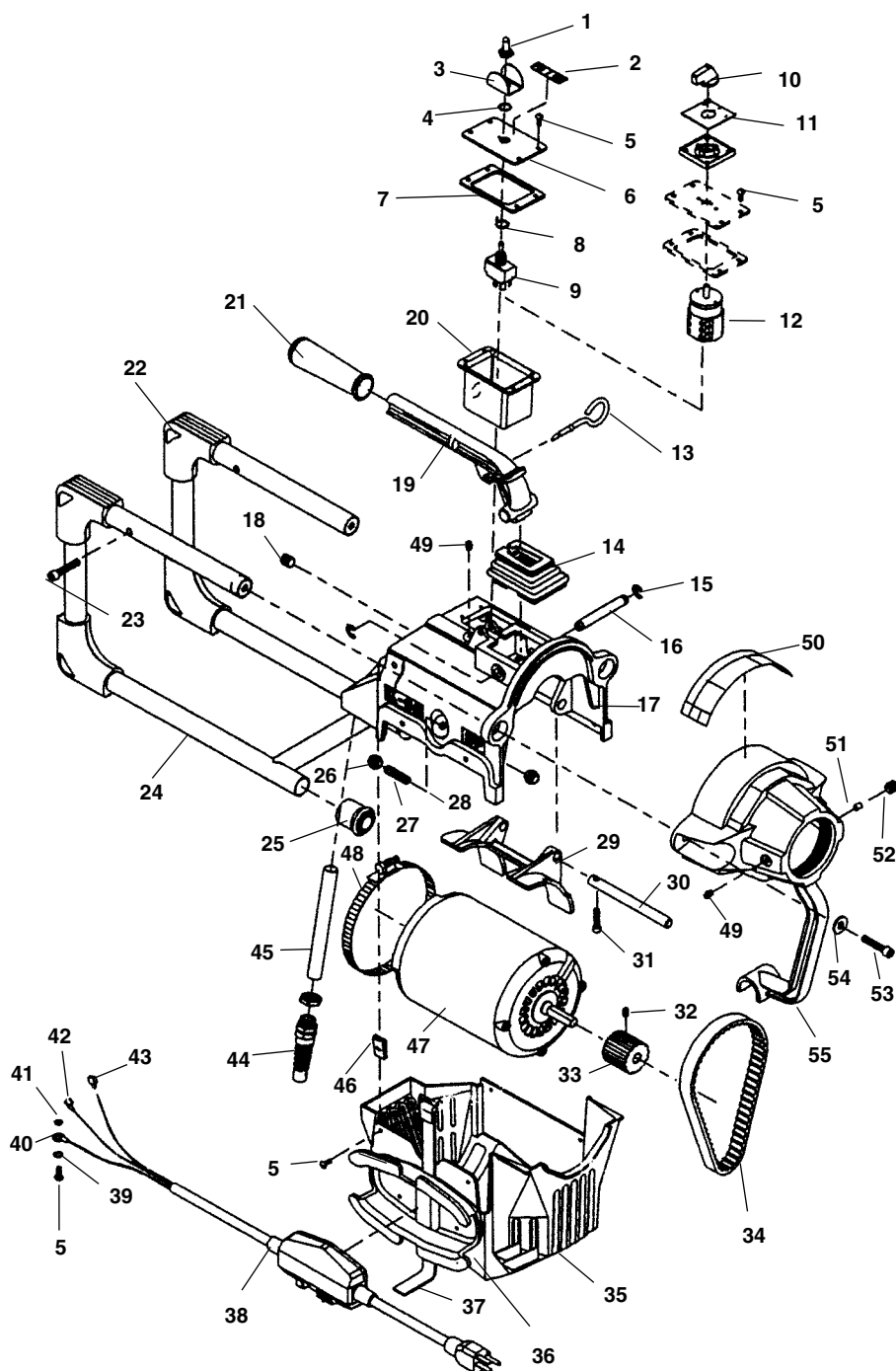


K-50 Motor Wiring Diagram 120V 50/60Hz



Main Body Components

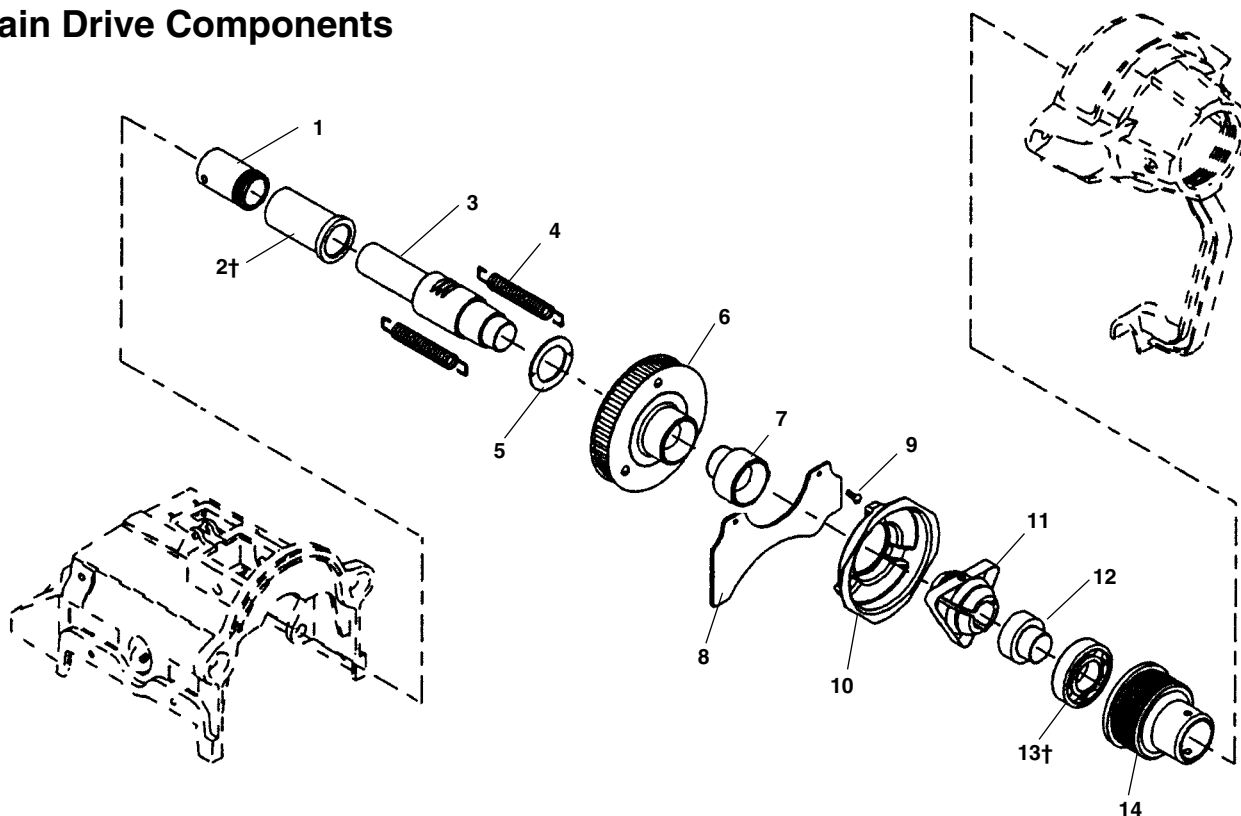
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**



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 GFCI (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)
49	65657	Grease Fitting (2)
50	65667	Warning Label
—	65862	Warning Label (Export)
51	65662	Nylon Plug
52	42037	1/2" - 13 x 1/2" Screw
53	79685	1/2" x 1 1/2" Socket Screw (2)
54	60060	Washer (2)
55	65652	Jaw Housing Assembly (Inc. Ref. #'s 49, 51, 52)
56	67422	Thermal Overload f/Motor) Not Shown)

† - 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	8	65697	Baffle
2†	65722	Sleeve Bearing	9	61110	10 - 32 x 3/8" Screw (2)
3	65712	Shaft w/Rack	10	65692	Jawset Cover
4	65717	Extension Spring (2)	11	65687	Clutch Jaw
5	65707	Spring Plate	12	65682	Idler Cone
6	65702	Pulley Assembly	13†	65677	Bearing (2)
7	66897	Drive Cone	14	65672	Adjustment Cap

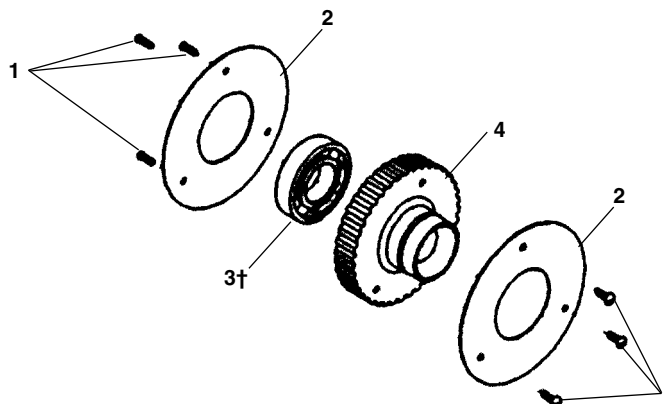
† – Apply Loctite® #642 to O.D. of Sleeve Bearing (Ref. #2).

† – Apply Loctite® #642 to I.D. of Bearing (Ref. #13) prior to assembly into Shaft w/Rack (Ref. #3) and Idler Cone (Ref. #12).

Pulley Assembly

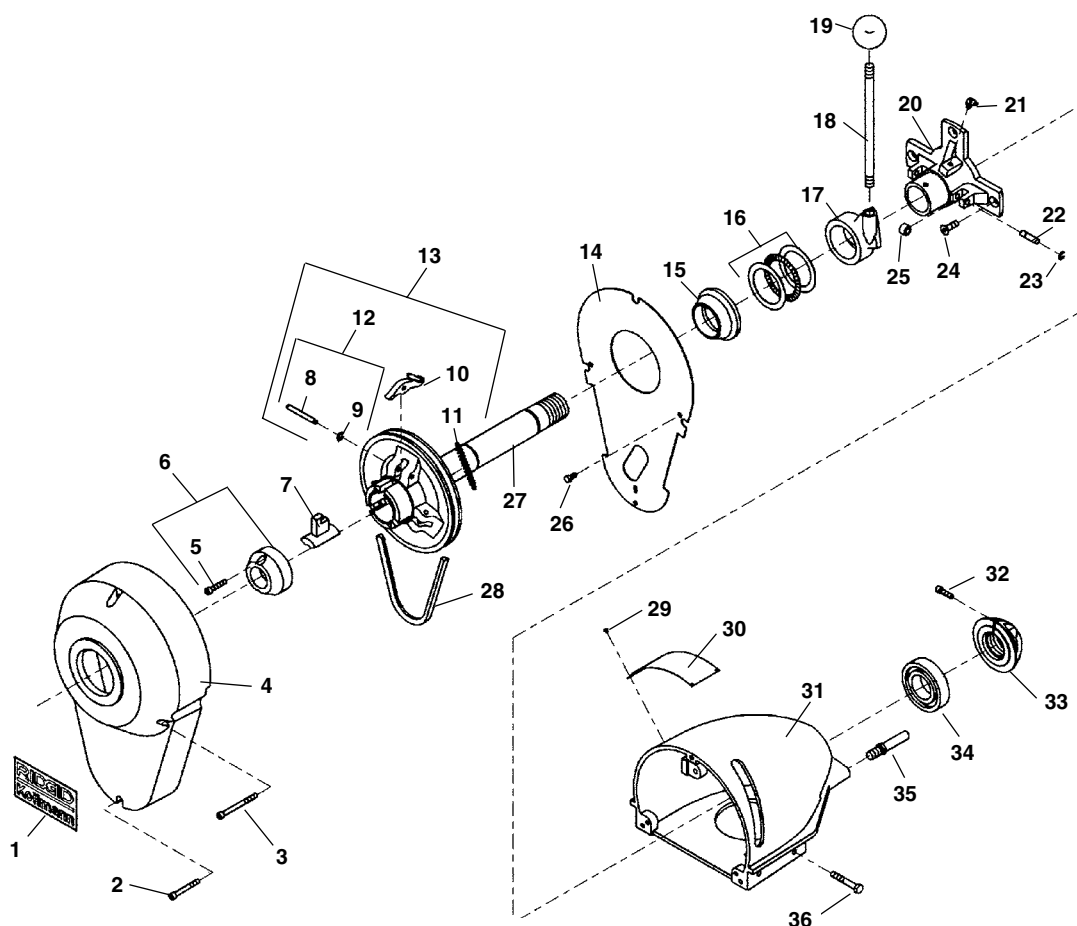
Ref. No.	Catalog No.	Description
—	65702	Pulley Assembly
1	61110	10 - 32 x 3/8" Screw (6)
2	66877	Pulley Flange (2)
3†	65677	Bearing (2)
4	66902	Pulley

† – Apply Loctite® #642 to I.D. of Bearing (Ref. #3) prior to assembly into Shaft w/Rack (Ref. #3) and Idler Cone (Ref. #12).



Main Components

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

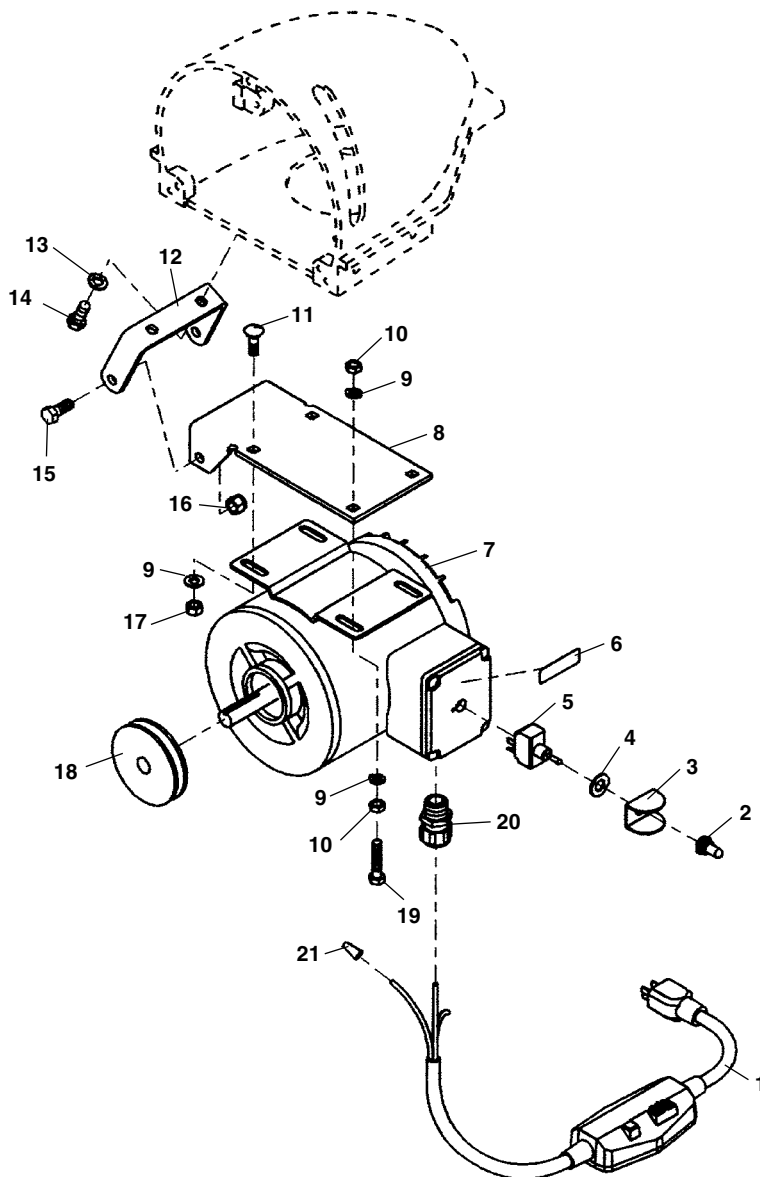


NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.

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

K-75A
K-75B
K-1500A
K-1500B

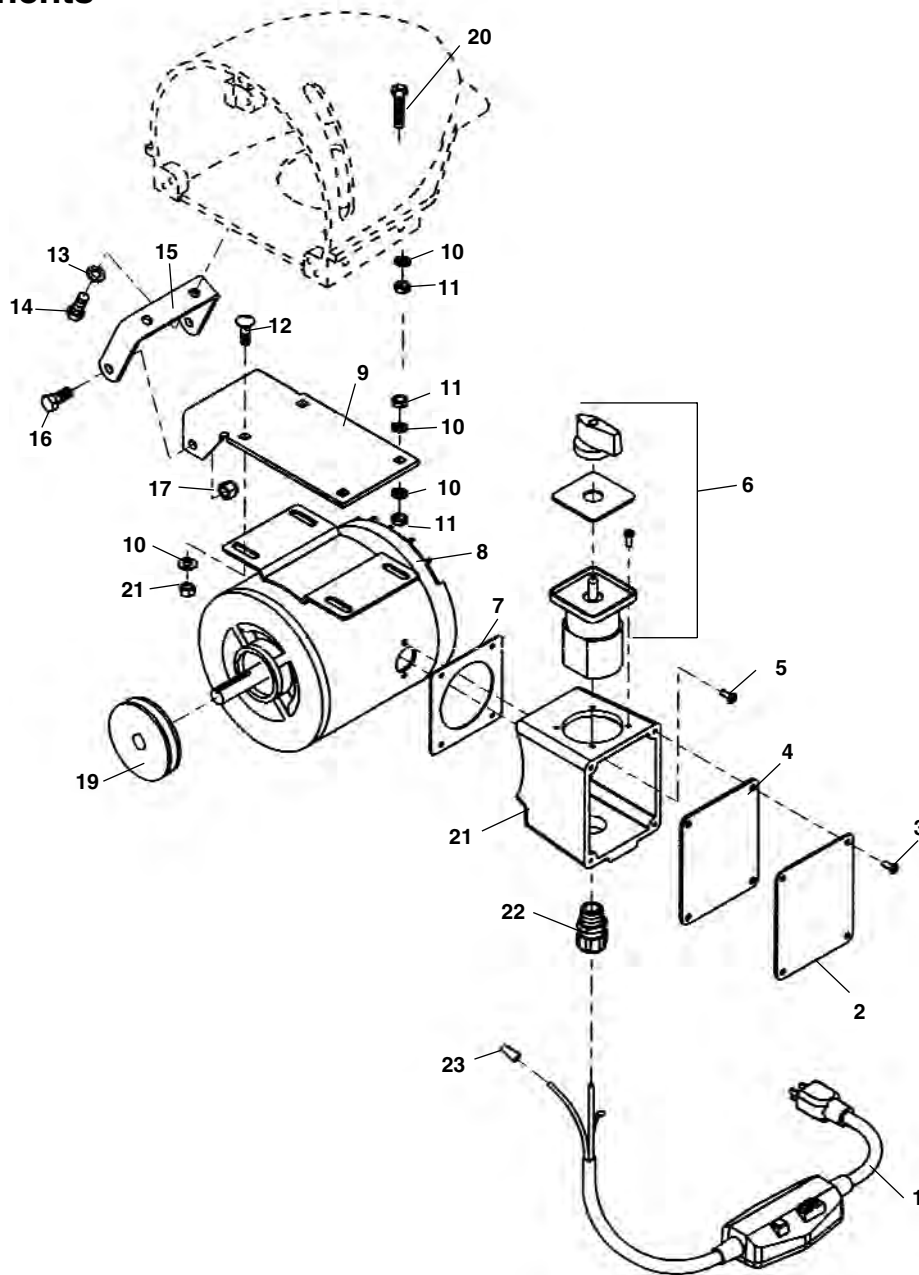


NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.

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

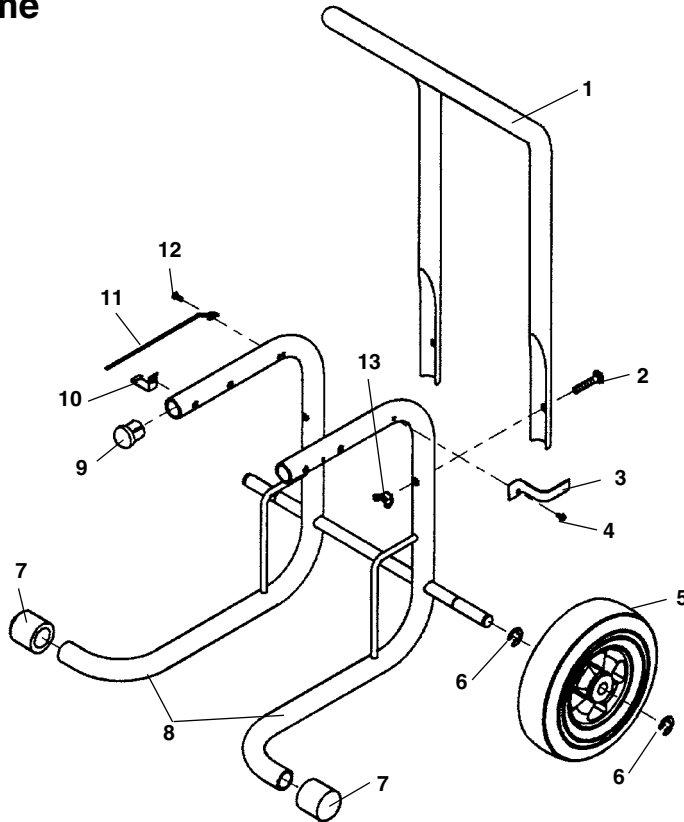
**K-1500ASP
K-1500BSP**



**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	11	61115	Jam Nut $\frac{5}{16}$ " - 18 (3)
	45022	Line Cord 110V - U.K.	12	96260	Carriage Bolt $\frac{5}{16}$ " - 18 x $\frac{3}{4}$ " (3)
	39562	Line Cord - Europe	13	60085	A-2290 Lock Washer (2)
	15707	Line Cord - Export	14	60380	A-2481 Screw (2)
2	45272	Cover Plate	15	23642	Motor Bracket
3	59990	Screw #10	16	59785	A-210 Screw (2)
4	45267	Cover Plate Gasket	17	43947	Lock Nut $\frac{3}{8}$ " - 16 (2)
5	43932	A-2256 Screw (2)	18	60230	Hex Nut $\frac{5}{16}$ " - 18 (3)
6	20113	Switch Assembly (Includes Ref. No. 6-8)	19	45227	Pulley
7	45257	Switch Box Gasket	20	43757	Hex Screw $\frac{5}{16}$ " - 18 x 2"
8	45237	Motor 1 Hp	21	45262	Switch Box
9	54582	Motor Table	22	50512	Strain Relief
10	60080	Lock Washer $\frac{5}{16}$ " (6)	23	44635	Wire Nut

A Frame

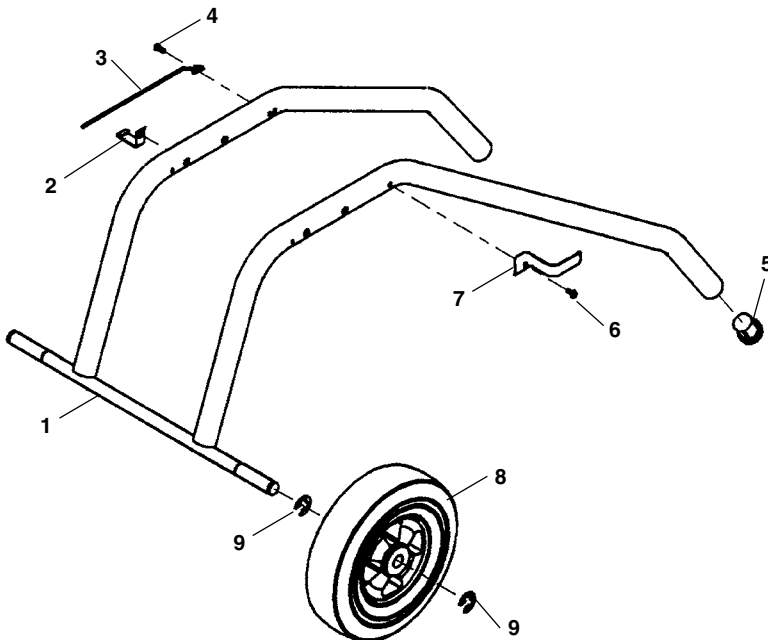


**K-75A
K-75B
K-1500A
K-1500B
K-1500ASP
K-1500BSP**

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

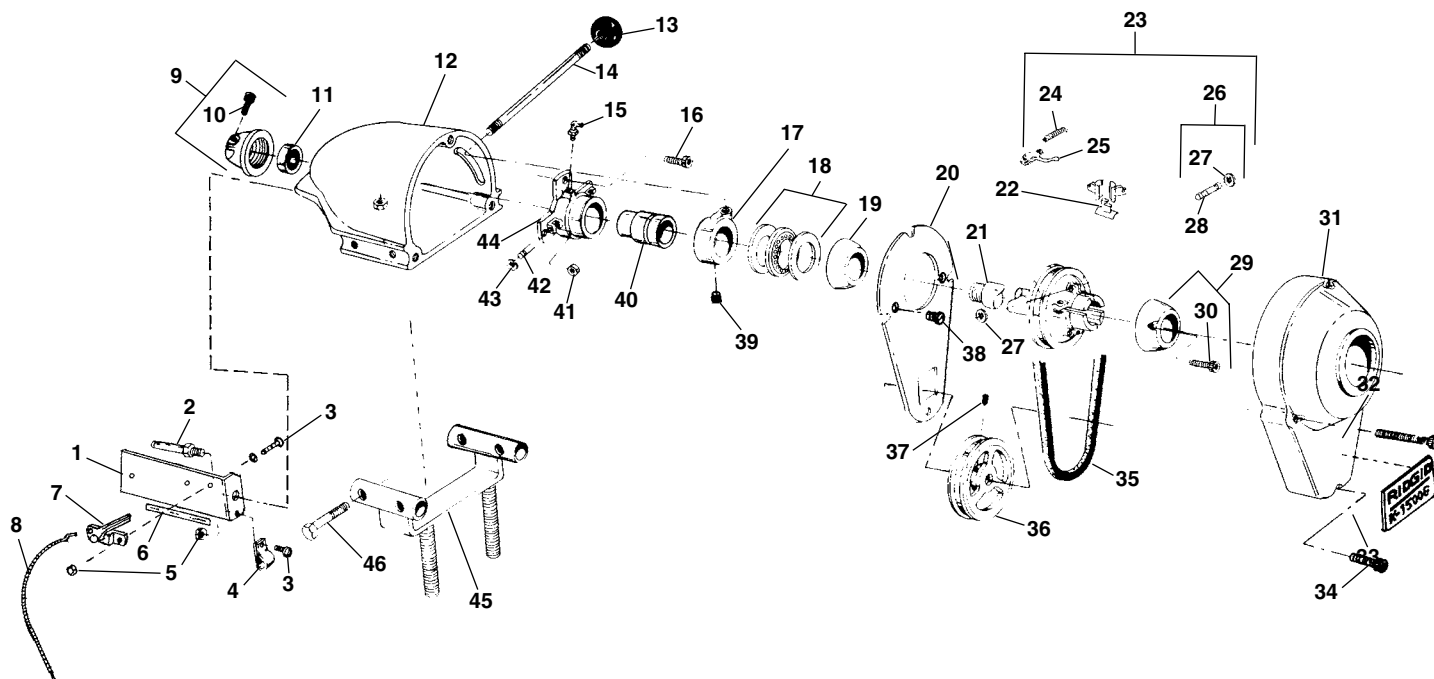
Ref. No.	Catalog No.	Description
1	23537	Handle (Type "A")
2	23617	Bolt (2)
3	61965	Cord Hook w/Screw (2)
4	61500	A-427 Screw (2)
5	23602	Wheel (K-75, K-1500) (2)
	23597	Wheel (SP Models Only) (2)
6	60050	A-2281 Retaining Ring (4)
7	23607	Leg End Cap (2)
8	23532	Frame Assembly
9	61470	A-394 Rubber Plug (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)

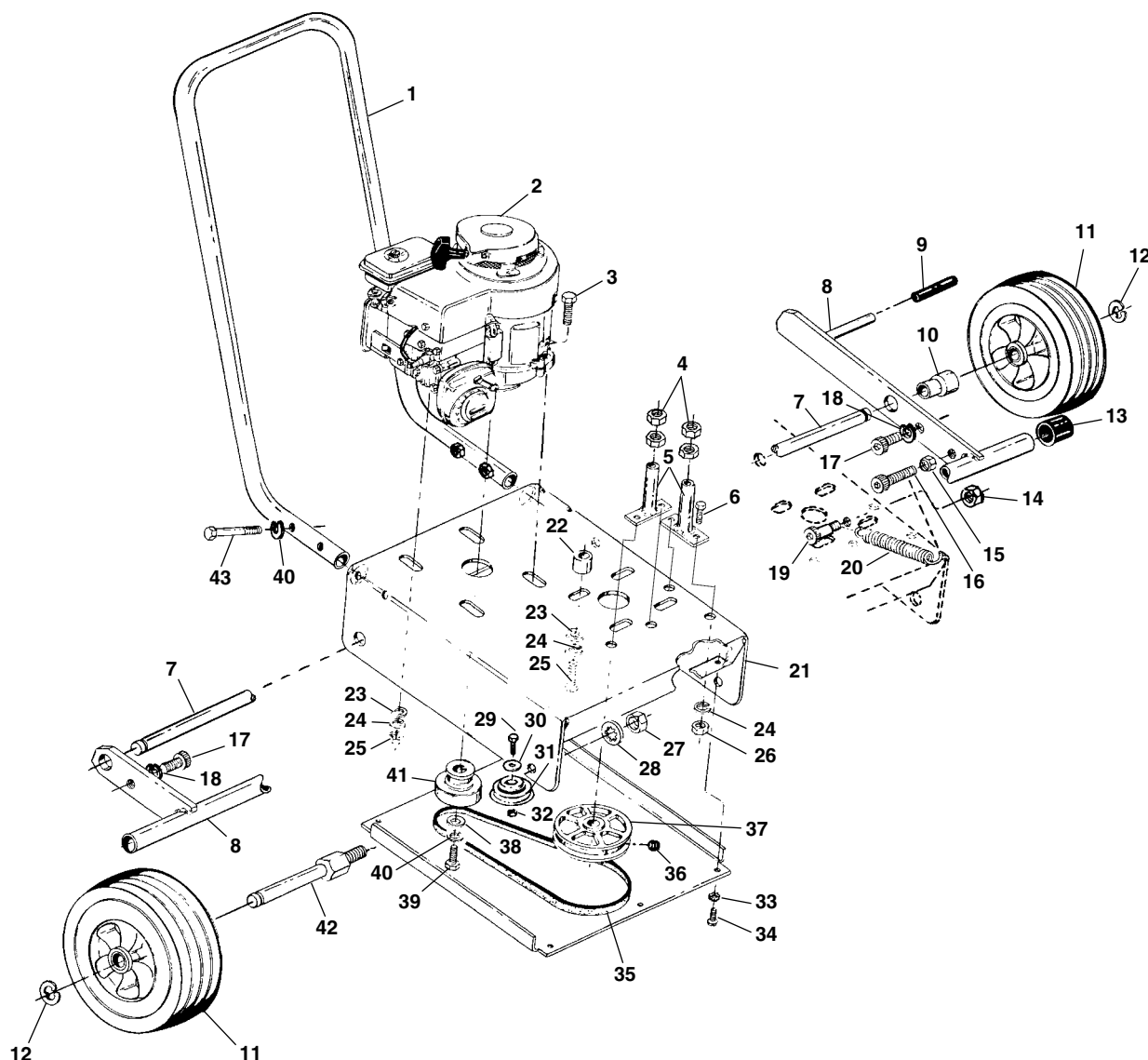
Main Drive and Body Components



**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	26	60150	Rocker Arm Pin w/Clip (3)
2	59580	Guide Hose Pin (2)	27	78780	E-3562 Retaining Ring (3)
3	87975	R.H. Screw 10-24 x 5/8" (4)	28	90105	Pin (3)
4	43697	Cable Clamp (2)	29	59500	Nose Piece
5	87970	Nut 10 - 24 (4)	30	84425	Screw (2)
6	59282	Engine Throttle Decal	31	23547	Front Guard
7	58937	Lever Assy. - Throttle Control	32	23652	Soc. Hd. Screw 1/4" x 2 3/4" (3)
8	58942	Throttle Cable	33	43717	Label
9	60935	Lock and Adj. Nut (Incl. #7)	34	44510	Soc. Hd. Screw 1/4" - 20 x 2"
10	60910	Soc. Hd. Screw 1/4" - 20 x 5/8"	35	43722	V-Belt - Cable
11	60930	Ball Bearing	36	43727	Pulley - Cable
12	43702	Body		91002	Pulley - (Tecnunseh Transmission)
13	59585	Knob	37	60025	Set Screw (2)
14	59575	Clutch Handle	38	60265	Hex Screw 1/4" - 20 x 1 1/2" (2)
15	89815	Grease Fitting	39	93560	Pan Screw 1/4" - 20 x 5/8"
16	68875	F.H. Screw 5/16" - 18 x 1" (3)	40	84435	Bronze Bushing
17	43707	Clutch Casting	41	61015	Roller (2)
18	23677	Thrust Bearing Assembly	42	23592	Pin (2)
19	23572	Clutch Cone	43	34175	Retaining Ring (2)
20	43712	Inside Guard	44	45247	Main Bearing with Bronze Bushing
21	23562	Pulley and Shaft Assembly			
22	59325	1/8" Jaw Assembly	45	43762	Mounting Bracket
	59320	1 1/4" Jaw Assembly		91022	Mounting Bracket (Tecnunseh Transmission)
23	60145	Rocker Arm Kit			
24	60155	Spring (3)	46	43757	Hex Head Screw (4)
25	59530	Rocker Arm Set			

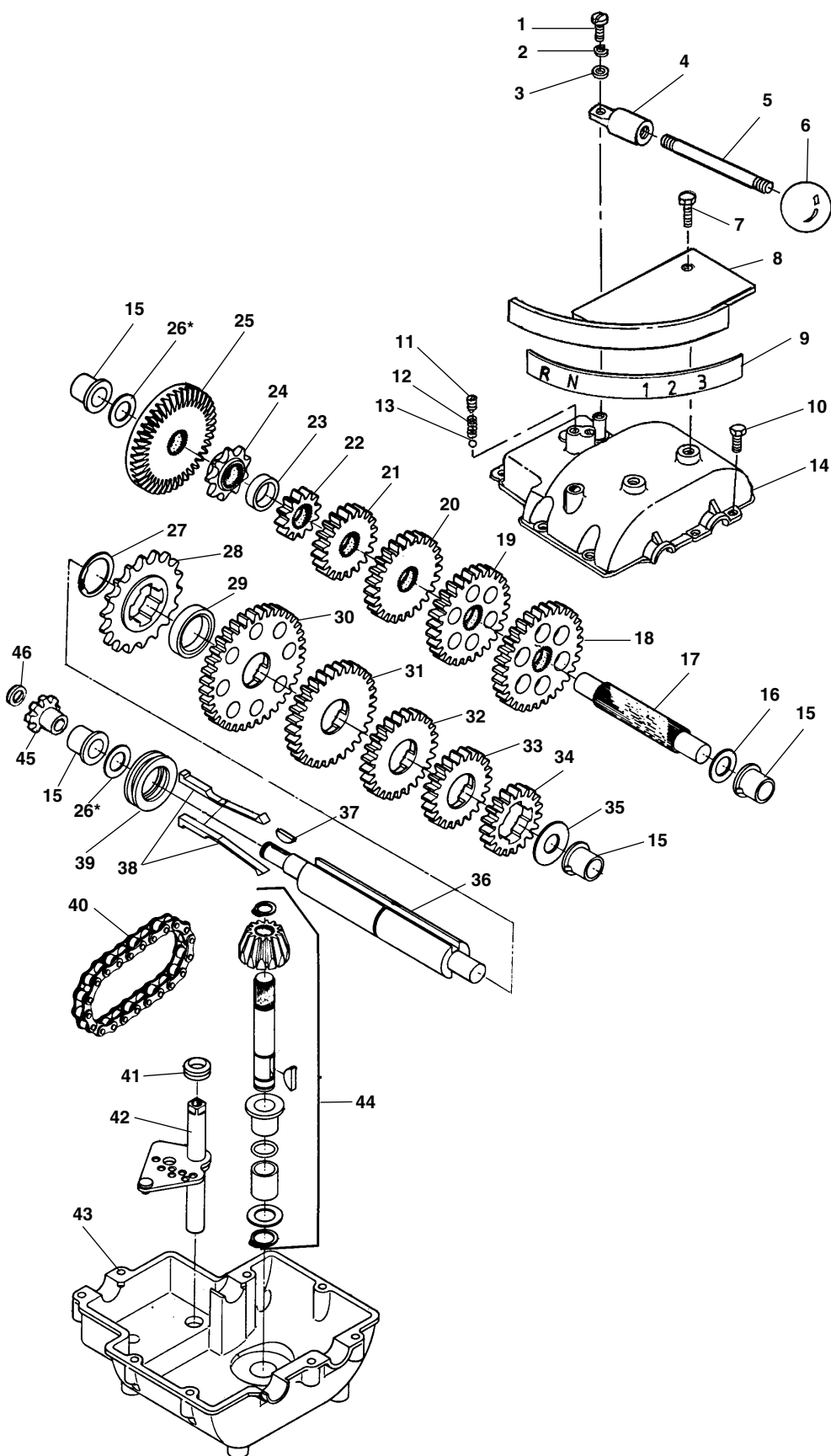
Main Drive and Body Components



**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	18	43807	Lock Washer $\frac{3}{8}$ " (2)	34	60000	Rd. Head Screw 10-32 x $\frac{3}{8}$ " (6)
2	66977	Engine/6HP	19	84680	Shld Screw $\frac{5}{16}$ " x $\frac{1}{2}$ " (2)	35	60130	"V" Belt/5HP
3	60515	Hex Hd. Screw $\frac{5}{16}$ " - 18 x $1\frac{1}{4}$ " (4)	20	43812	Extension Spring (2)	35	66967	"V" Belt/6HP
4	43827	Hex Nut 1" - 8 (4)	21	43817	Base Assembly	36	60025	Set Screw
5	43822	Mounting Bracket Supports (2)		91312	Base Assembly (Tecumseh)	37	43832	Pulley - Trans
	91292	Left Mounting Bracket (Tecumseh)	22	43852	Spacer-Trans. (4)		91017	Pulley (Tecumseh)
6	91302	Hex Hd. Screw $\frac{5}{16}$ " - 18 x $\frac{3}{4}$ " (4)		91297	Trans. Spacer (Tecumseh)	38	61275	Washer $\frac{3}{8}$ "
7	43842	Rear Axle	23	60060	Flat Washer $\frac{5}{16}$ " (8)	39	61435	Hex Screw $\frac{3}{8}$ " x 1-1 $\frac{1}{4}$ "
8	43787	Stabilizer Assembly	24	61445	Ext. Lock Washer $\frac{5}{16}$ " (12)	40	60085	Lock Washer $\frac{3}{8}$ " (4)
9	61605	Handle Grip	25	43847	Hex Nut $\frac{5}{16}$ " - 18 x $\frac{1}{12}$ " (4)	41	61380	Clutch
10	43792	Spacer - Axle (2)	26	60230	Hex Nut $\frac{5}{16}$ " - 18 (8)	42	43837	Front Axle
11	23597	Wheel (4)	27	61455	Hex Nut $\frac{1}{2}$ " -13 (2)	43	76870	Hex Head Screw $\frac{3}{8}$ " - 16 x 2 $\frac{1}{4}$ " (5)
12	60050	Retaining Ring (4)	28	60090	Lock Washer $\frac{1}{2}$ " (2)	Not Shown		
13	23607	End Cap (2)	29	23617	$\frac{3}{8}$ " - 16 x 2" Carriage Screw	44	91307	Tecumseh Transmission
14	80370	Hex Nut $\frac{1}{4}$ - 20 (2)	30	59970	$\frac{3}{8}$ " Flat Washer	45	91012	Tecumseh Shift Adapter
15	43747	Lock Nut $\frac{3}{8}$ " (4)	31	66962	Idler Pulley	46	91007	Tecumseh Indicator Bracket
16	60805	Hex Hd. Screw $\frac{3}{8}$ " - 16 x $1\frac{1}{2}$ " (2)	32	43947	$\frac{3}{8}$ " Lock Nut			
17	96900	SHCS $\frac{3}{8}$ " - 16 x $\frac{1}{2}$ " (2)	33	61310	Lock Washer #10 (6)			

Old Style Transmission

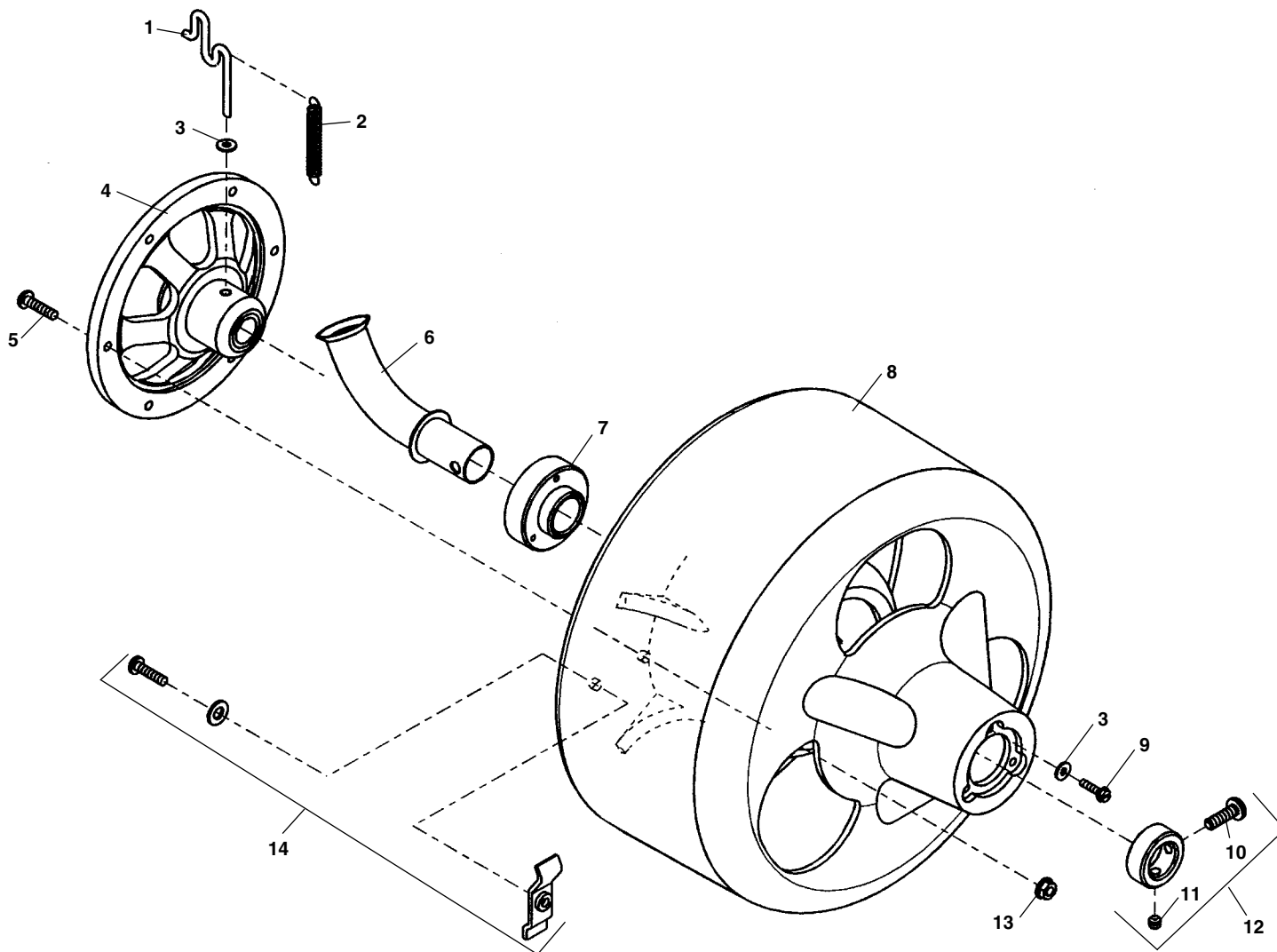


**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description
1	61540	F.H. Screw, 1/4" - 28 x 5/8"
2	60075	Lock Washer, 1/4"
3	84720	Flat Washer, 1/4"
4	43772	Shift Adapter
5	93630	Shift Handle
6	59585	Knob
7	60010	Hex Bolt, 5/16" - 18 x 1/2"
8	43777	Indicator Bracket
9	47472	Shift Indicator Decal
10	83500	Screw, 1/4" - 20 x 3/4" (8)
11	46395	Set Screw, 1/4" - 20 x 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 1/2" Drive

* Use in various combinations to maintain proper clearances.

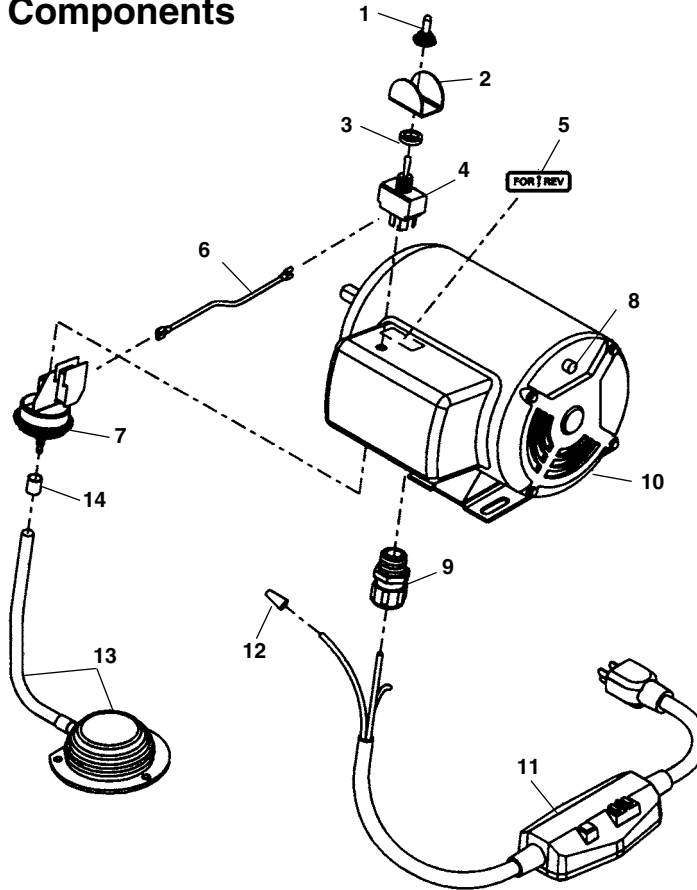
Drum Assembly



**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 3/16" - 18 x 1"
3	45365	#10 Flat Washer (4)	11	46080	Set Screw CP 3/16" - 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			

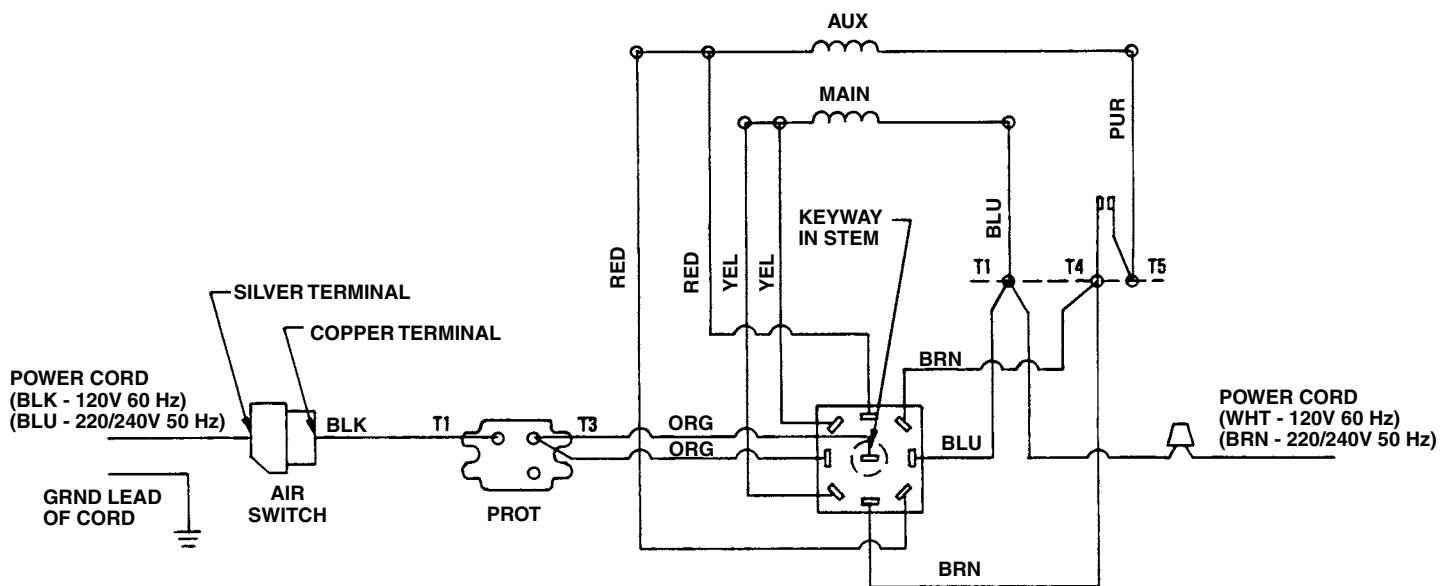
Electrical Components



**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 (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

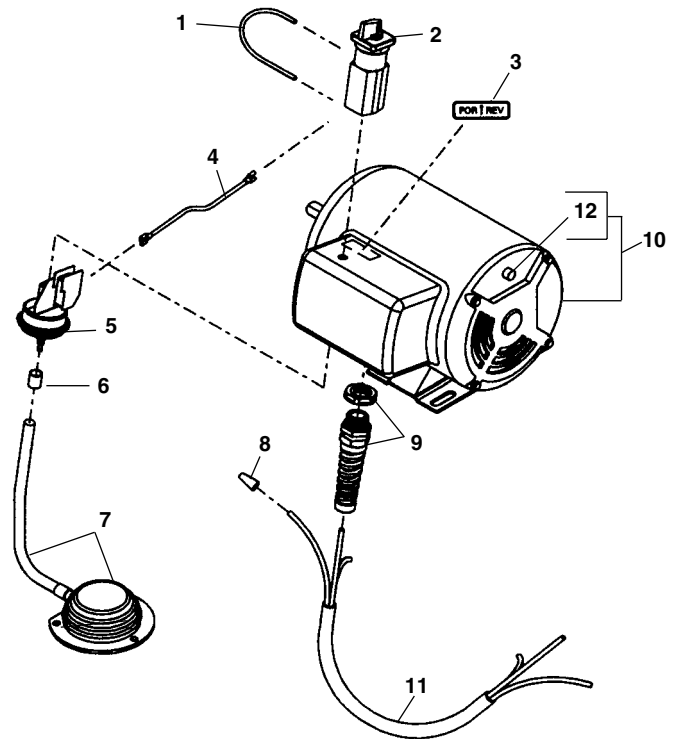
Wiring Diagram



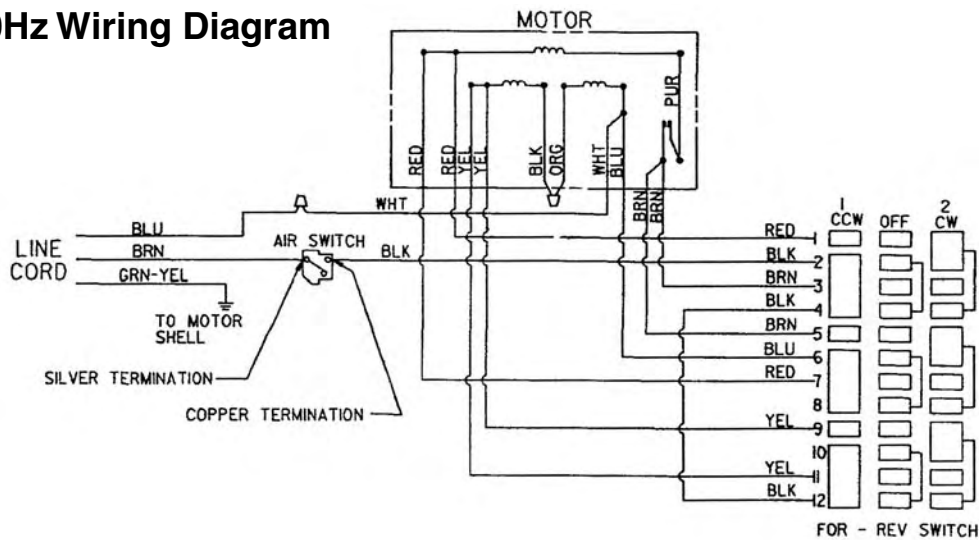
Electrical Components Europe & Australia

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

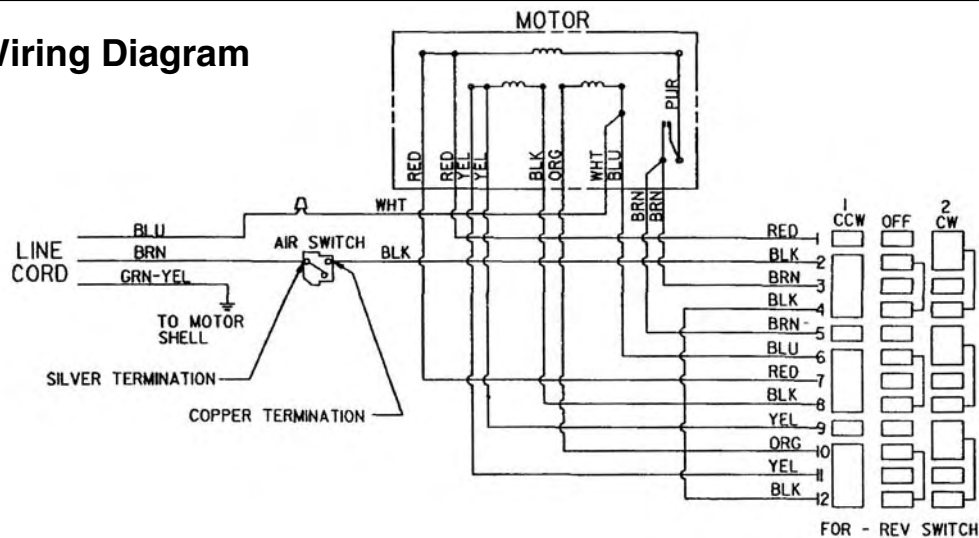
Ref. No.	Catalog No.	Description
1	44882	Jumper Wire Assembly
2	44862	Switch
3	23687	FOR/REV Label
4	44877	Lead Wire Assembly
5	32992	Air Switch
6	35142	Hose Clamp
7	37967	Foot Switch Assembly
8	44635	Wire Nut
9	27187	Strain Relief
10	44712	110/220/240V 50Hz Motor Assy.
11	39562	220V Power Cord (Europe)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



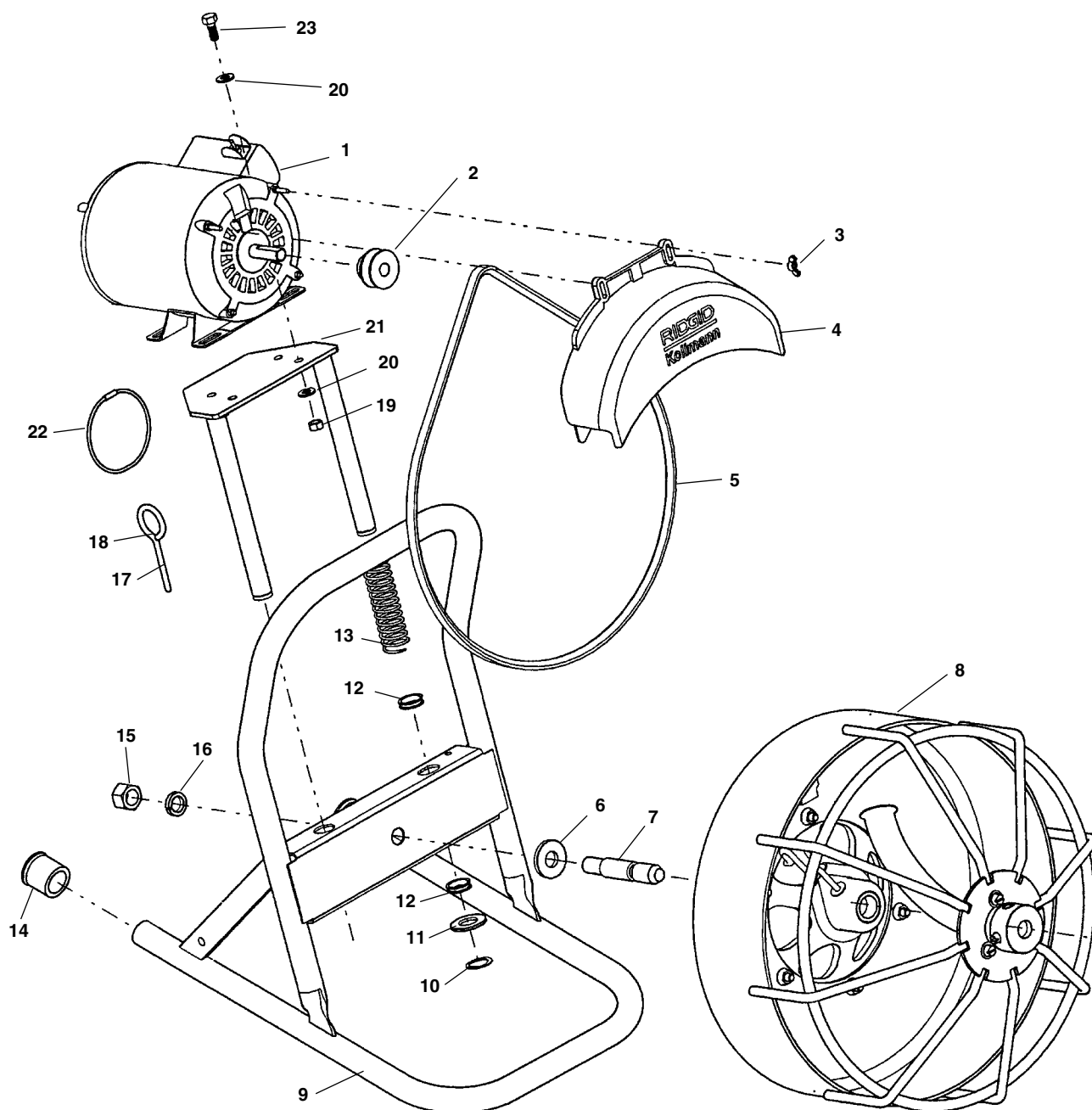
220/240V 50Hz Wiring Diagram



110V 50Hz Wiring Diagram



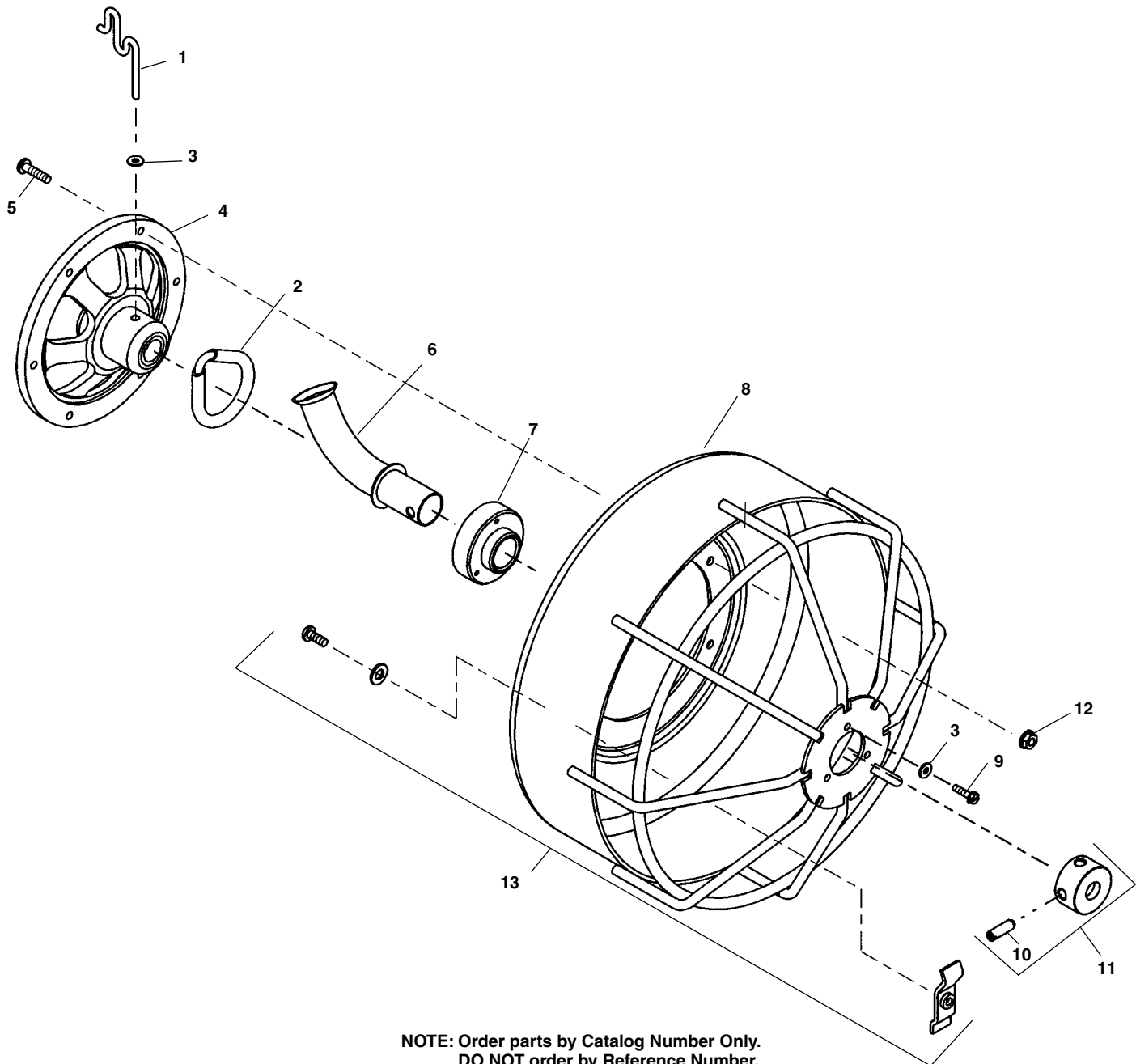
Main Components



**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 $\frac{5}{16}$ " - 11
4	39767	Belt Guard	16	46682	Lock Washer $\frac{5}{16}$ "
5	37872	Drive Belt	17	59230	$\frac{3}{16}$ " 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

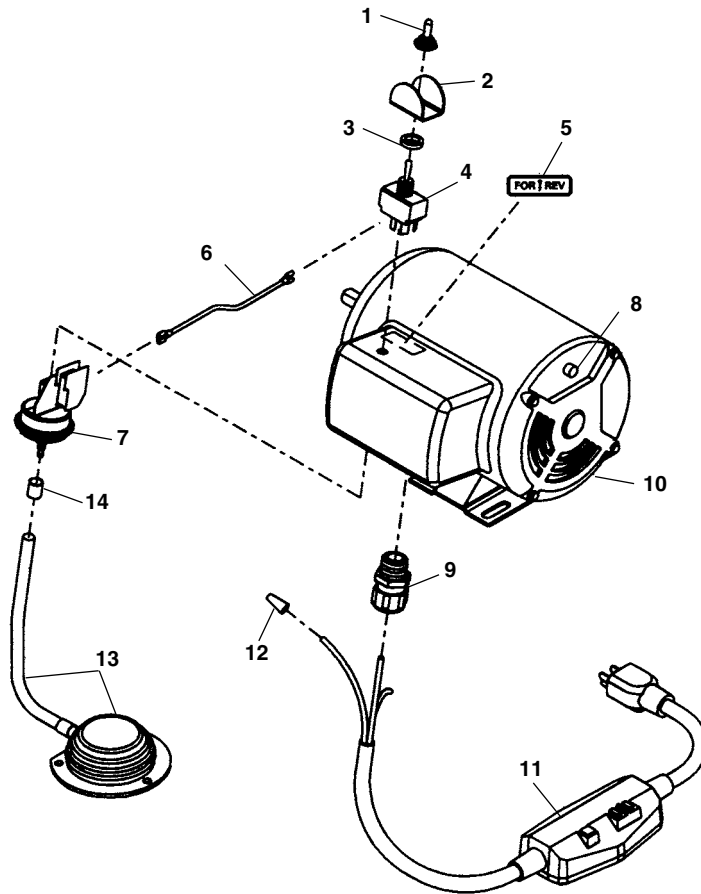


**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

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 $\frac{5}{16}$ " - 18 x 1"
11	37912	Set Collar Assembly
12	47297	Flange Nut $\frac{1}{4}$ " - 20 (6)
13	56147	Cable Clamp Assembly

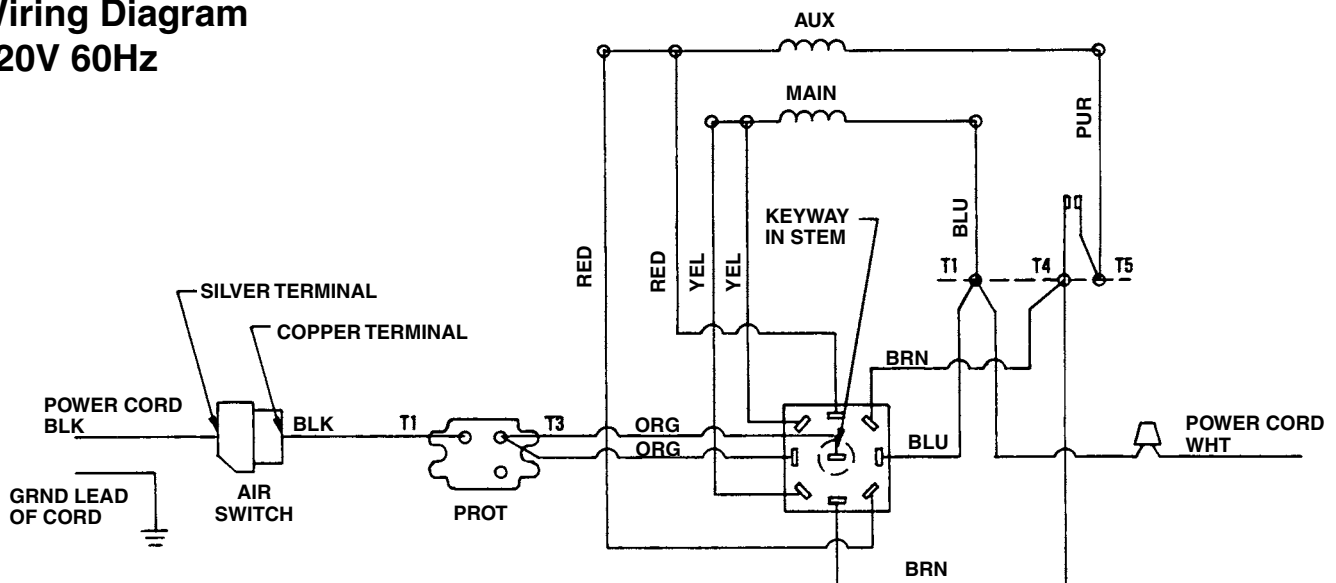
120V 60 Hz Motor

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

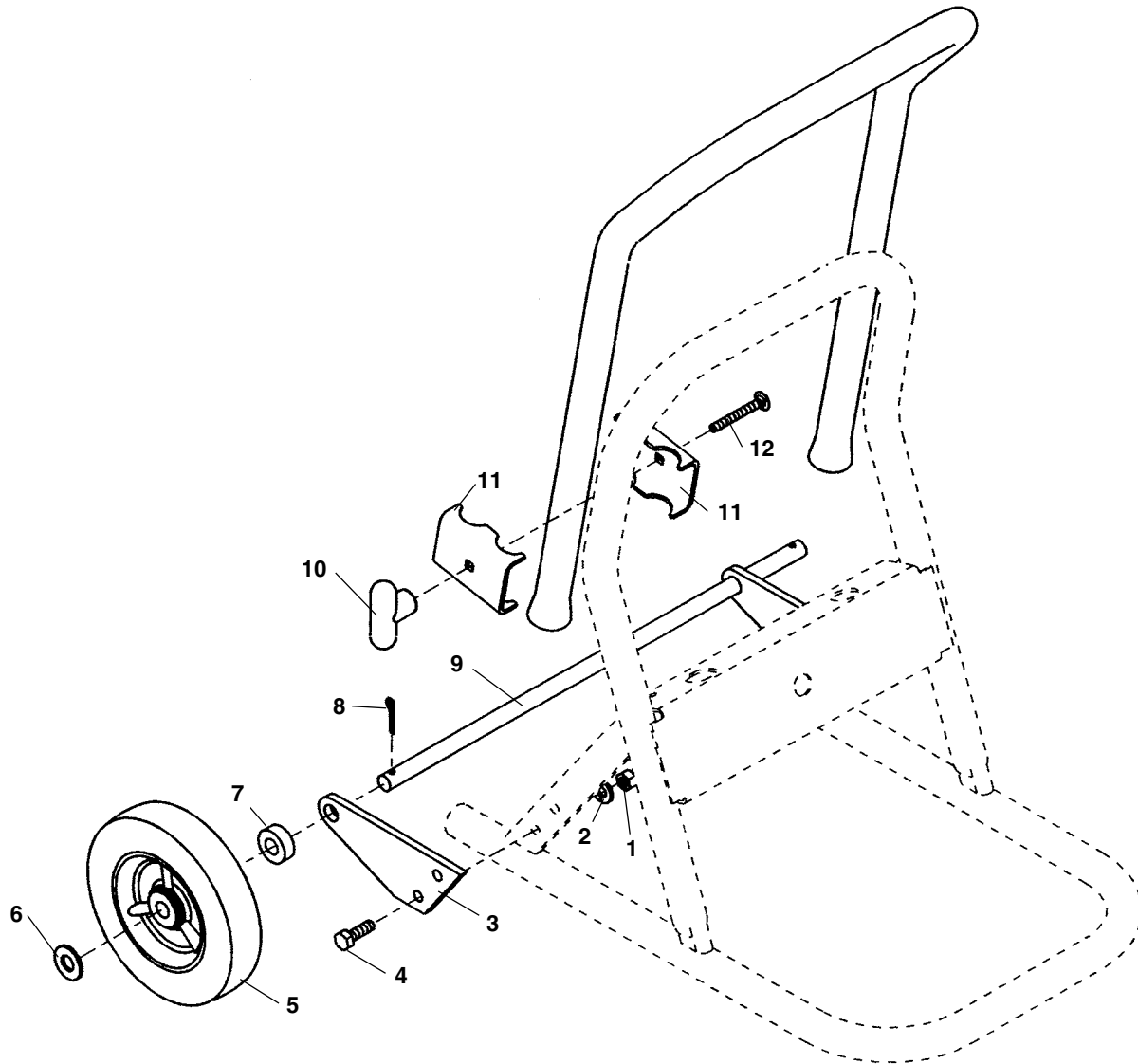


Ref. No.	Catalog No.	Description
1	23507	Rubber Boot
2	61490	Switch Guard
3	23512	Rubber Washer
4	41817	Switch
5	23687	FOR/REV Label
6	44877	Lead Wire Assembly
7	32992	Air Switch
8	67412	Thermal Overload
9	96265	Strain Relief
10	37977	120V 60Hz Motor Assembly (Includes Ref. No. 1 - 9)
	44702	220/240V 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



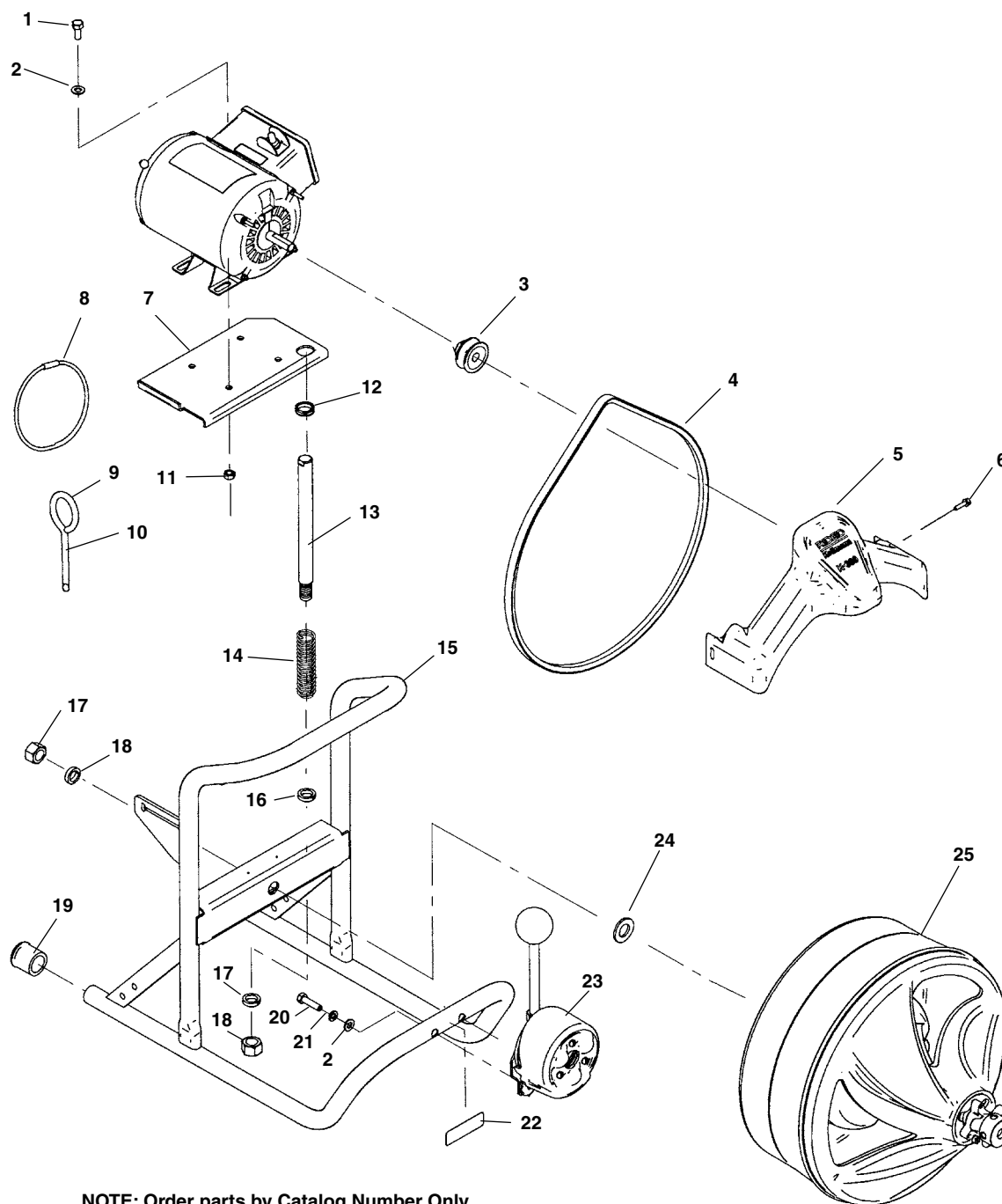
Transportation Cart Assembly



**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

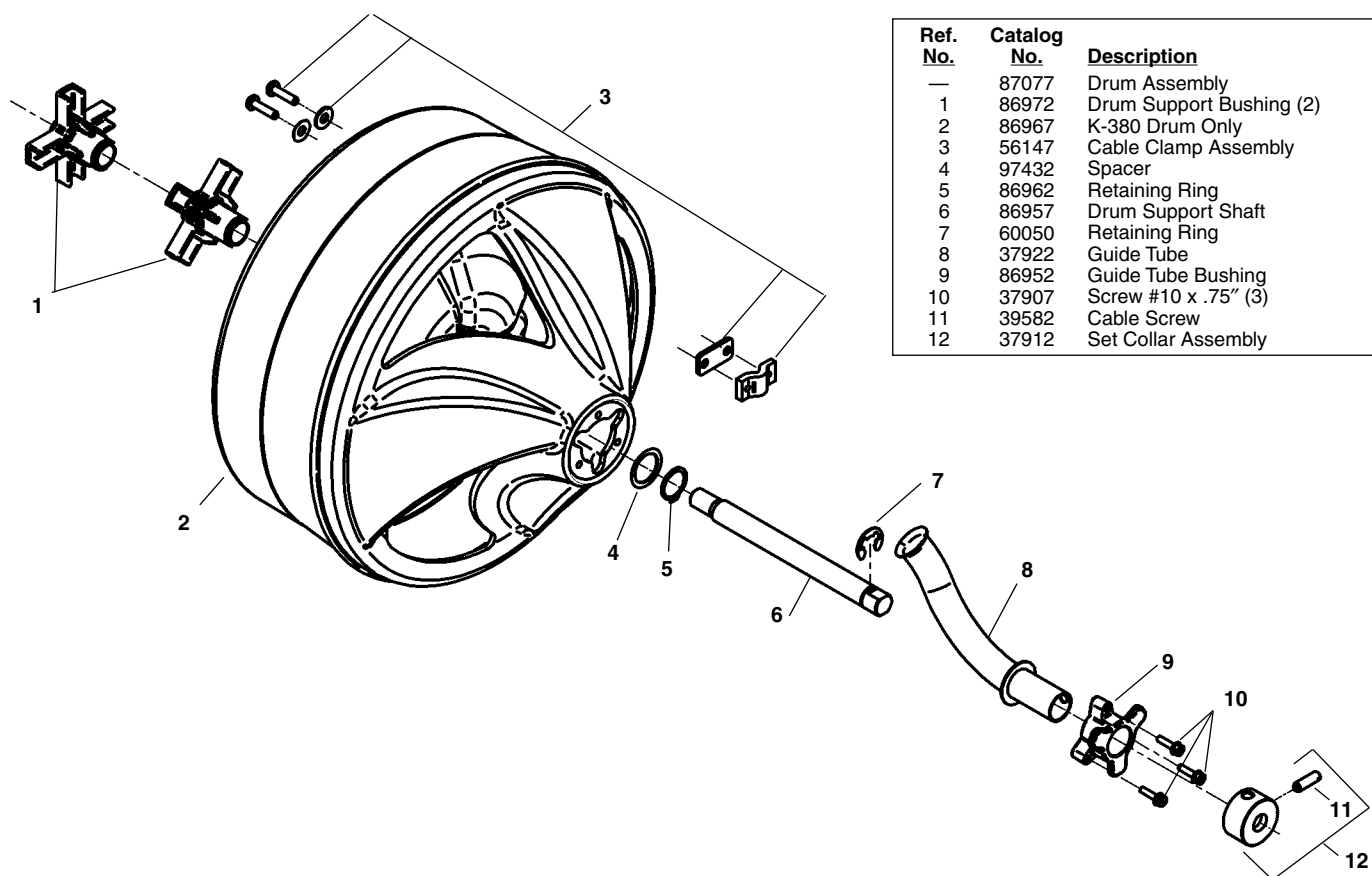


**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	61130	Hex Screw $\frac{5}{16}$ " - 18 x $\frac{3}{4}$ " (4)	14	87002	Compression Spring
2	60065	Flat Washer $\frac{5}{16}$ " (6)	15	87007	K-380 Frame
3	86987	Pulley w/Set Screw	16	21963	Spacer (Europe & U.K. Only)
4	86977	Belt	17	13617	$\frac{5}{8}$ " - 11 Nut
5	86982	Belt Guard	18	46682	$\frac{5}{8}$ " Lockwasher
6	37907	#10 Screw (5)	19	37962	Rubber Tip (2)
7	86992	Motor Base Plate	20	60515	Hex Screw $\frac{3}{16}$ " - 18 x 1.25" (2)
8	54562	Tool Holder	21	60080	$\frac{11}{32}$ " Lockwasher (2)
9	59230	$\frac{3}{8}$ " Pin Key	22	87012	K-380 Label
10	59225	$\frac{1}{2}$ " Pin Key	23	87337	K-380 Power Feed Assembly
11	27517	Lock Nut (4)	24	41790	Flat Washer
12	37952	Split Grommet	25	87077	K-380 Drum Assembly
13	86997	Spring Support Shaft			

Drum Assembly

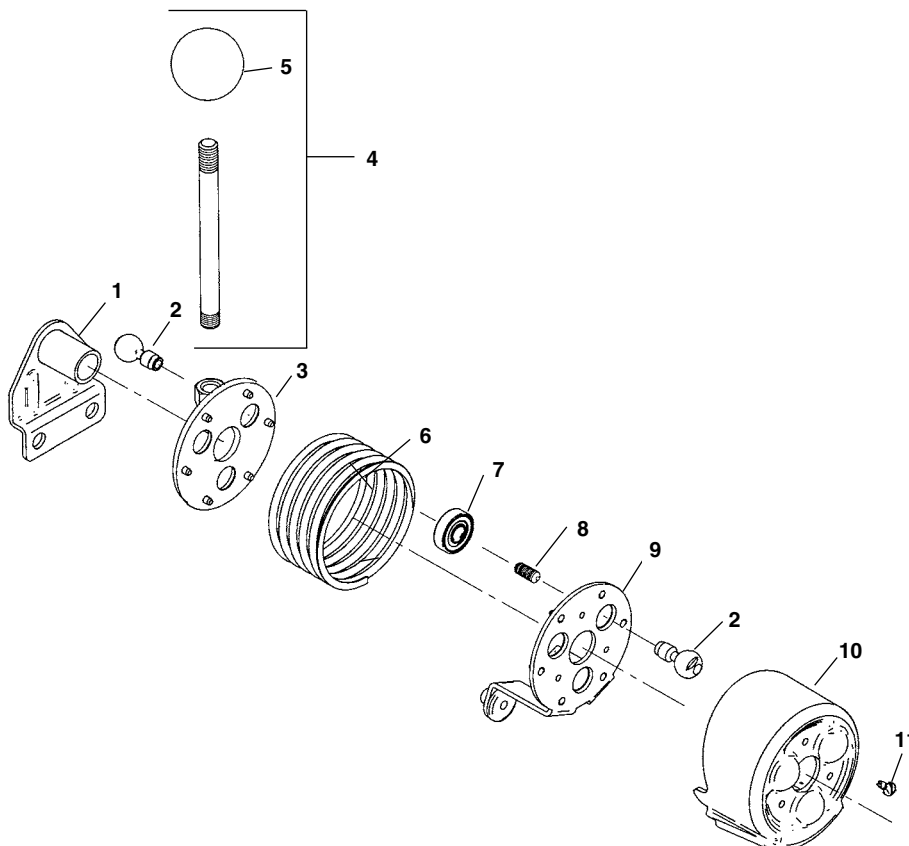
NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.



Ref. No.	Catalog No.	Description
—	87077	Drum Assembly
1	86972	Drum Support Bushing (2)
2	86967	K-380 Drum Only
3	56147	Cable Clamp Assembly
4	97432	Spacer
5	86962	Retaining Ring
6	86957	Drum Support Shaft
7	60050	Retaining Ring
8	37922	Guide Tube
9	86952	Guide Tube Bushing
10	37907	Screw #10 x .75" (3)
11	39582	Cable Screw
12	37912	Set Collar Assembly

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)

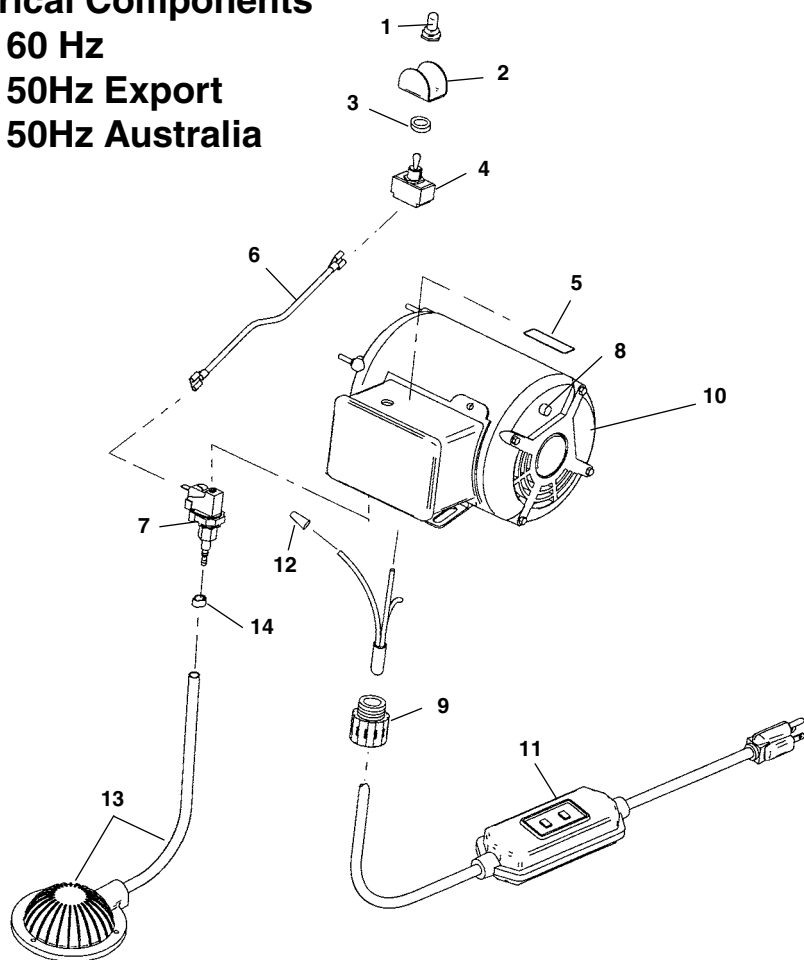


Electrical Components

120V 60 Hz

220V 50Hz Export

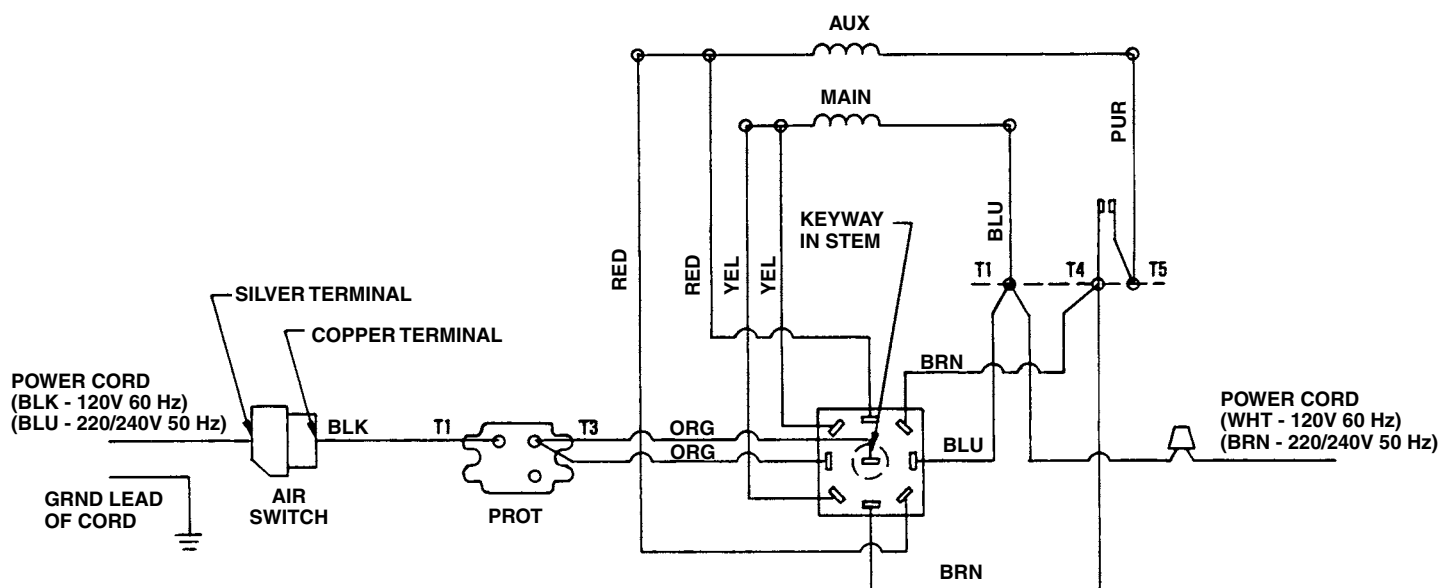
240V 50Hz Australia



**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)
	45292	220V 50Hz Motor Assy. – Export (Includes Ref. No. 1 - 9)
	44702	240V 50Hz Motor Assy. – Australia (Includes Ref. No. 1 - 9)
11	50507	120V Power Cord w/GFCI
	15707	220V Power Cord – Export
	35692	240V Power Cord – Australia
12	44635	Wire Nut
13	37967	Foot Switch Assembly
14	35142	Hose Clamp

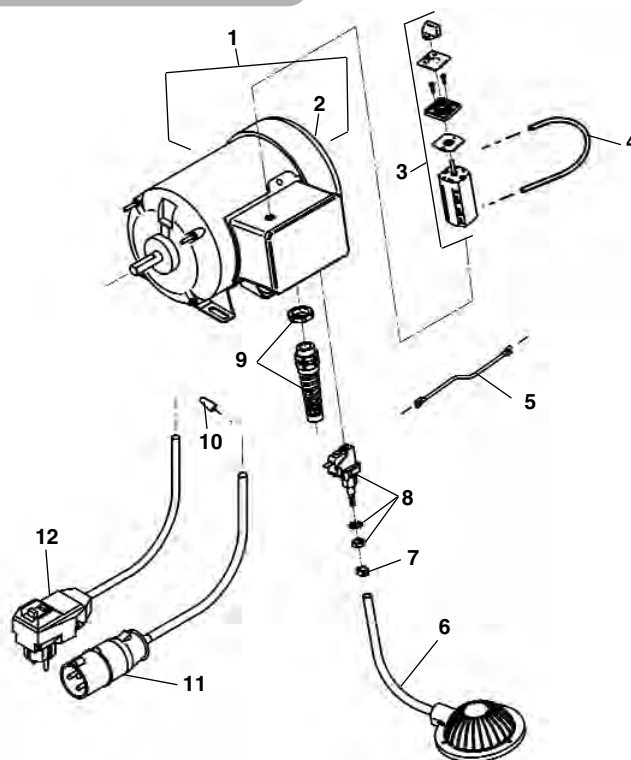
Wiring Diagram



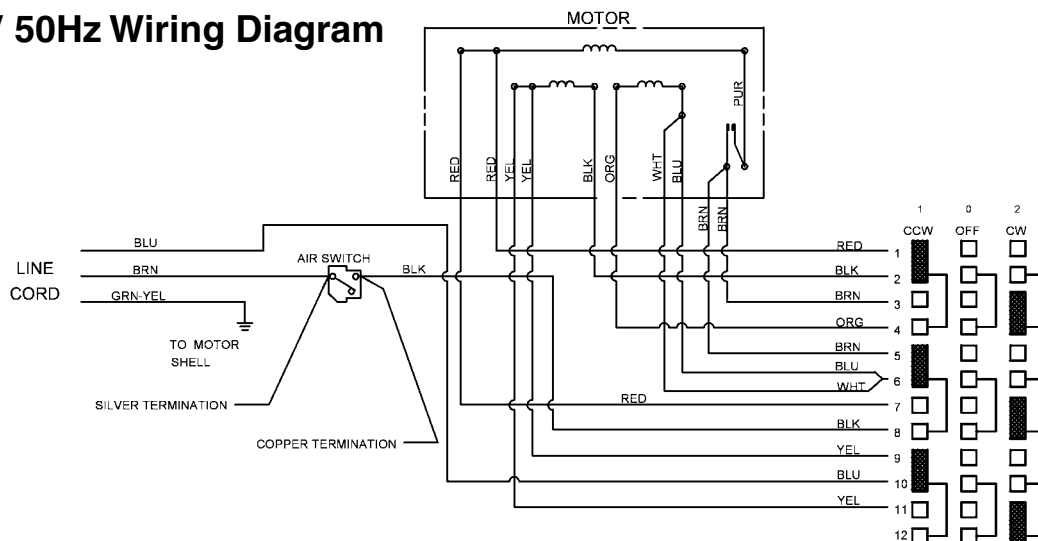
Electrical Components Europe & U.K.

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

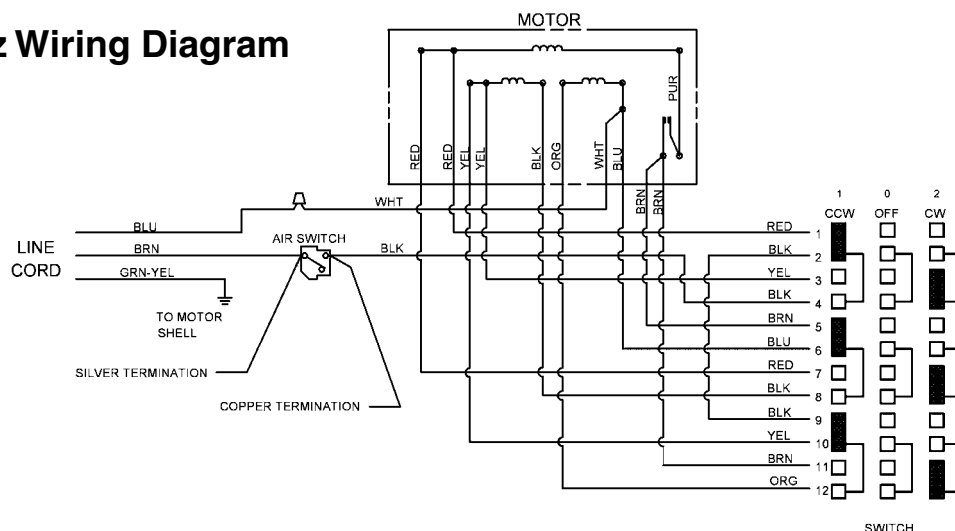
Ref. No.	Catalog No.	Description
1	44712	110/220/240V 50Hz Motor Assy.
2	67417	Thermal Overload
3	20143	Switch
4	44882	Jumper Wire Assembly
5	44877	Lead Wire Assembly
6	37967	Foot Switch Assembly
7	35142	Hose Clamp
8	32992	Air Switch
9	27187	Strain Relief
10	44635	Wire Nut
11	65842	220V Power Cord (Europe)
12	45022	110V Power Cord (U.K.)



220/240V 50Hz Wiring Diagram

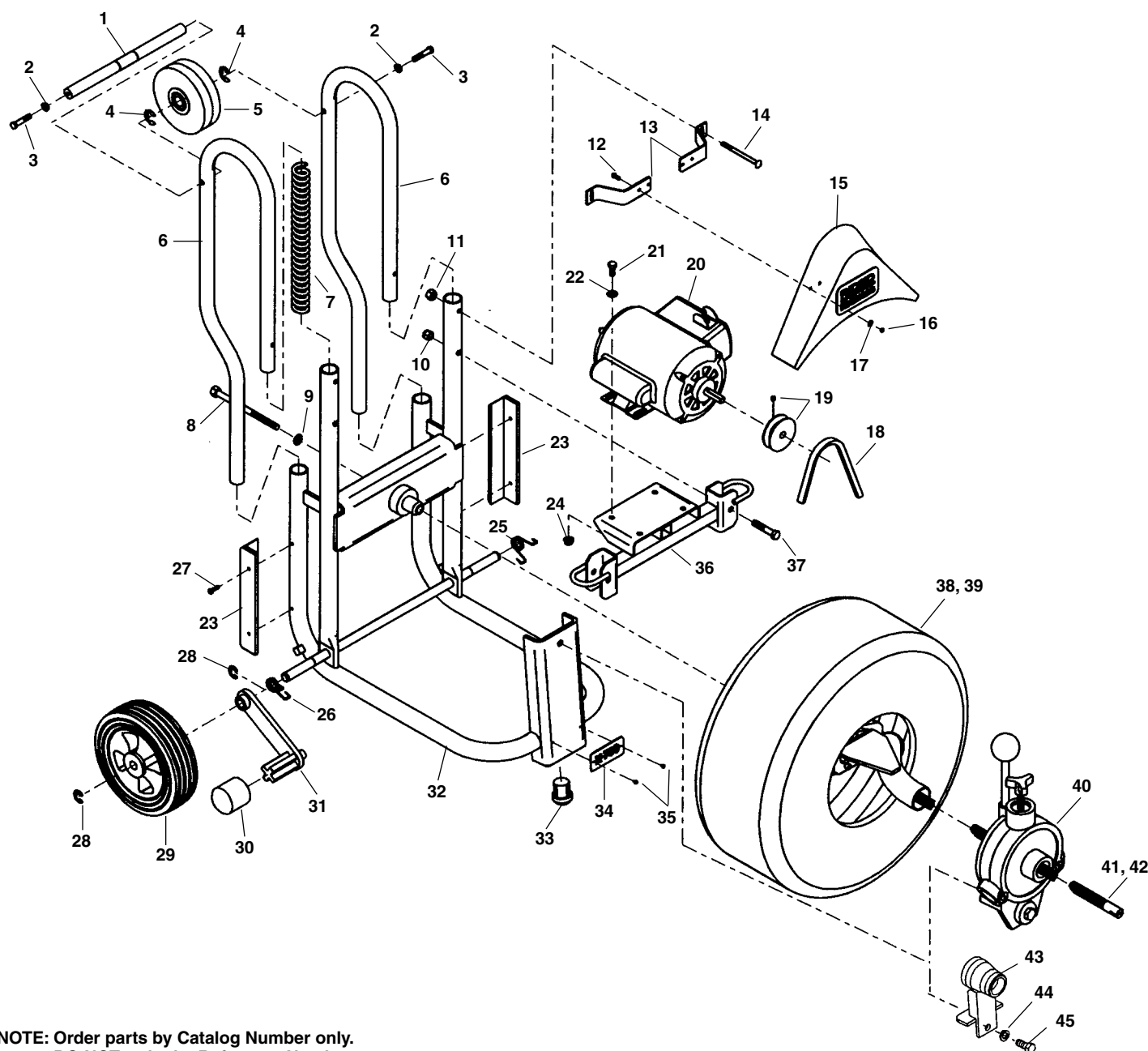


110V 50Hz Wiring Diagram



SWITCH

Frame and Drum Assembly



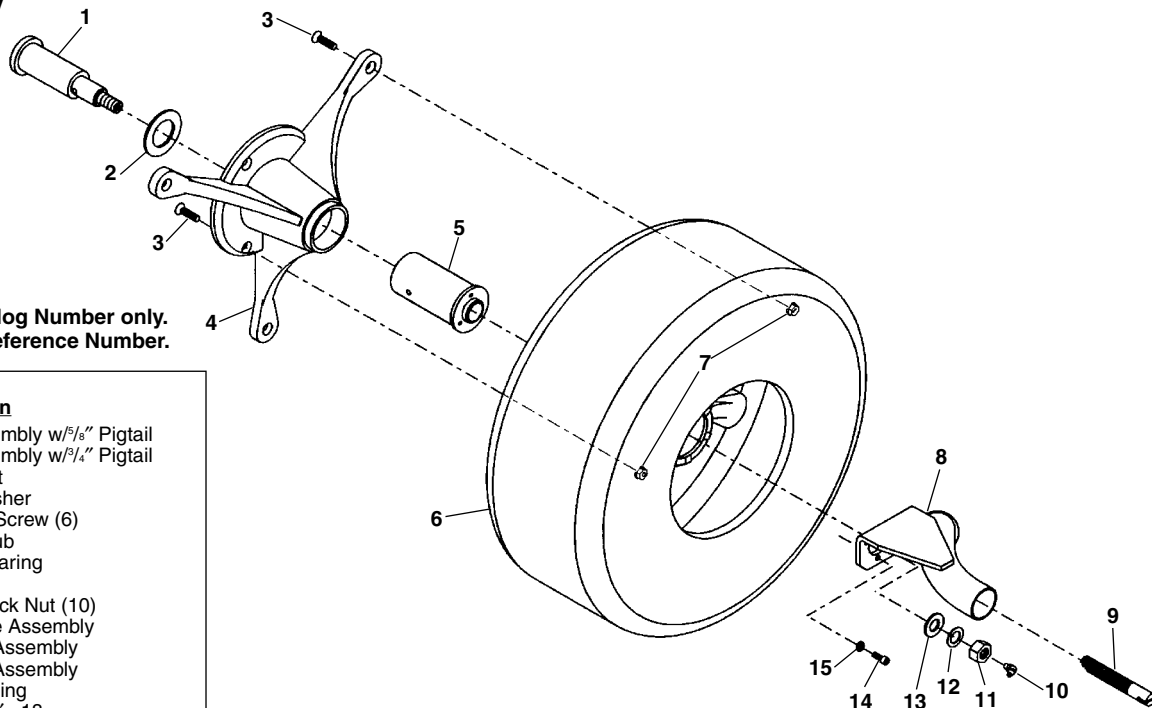
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

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/ $\frac{5}{16}$ " Pigtail
10	43947	Lock Nut	22	60060	$\frac{3}{16}$ " 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	$\frac{3}{8}$ " 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

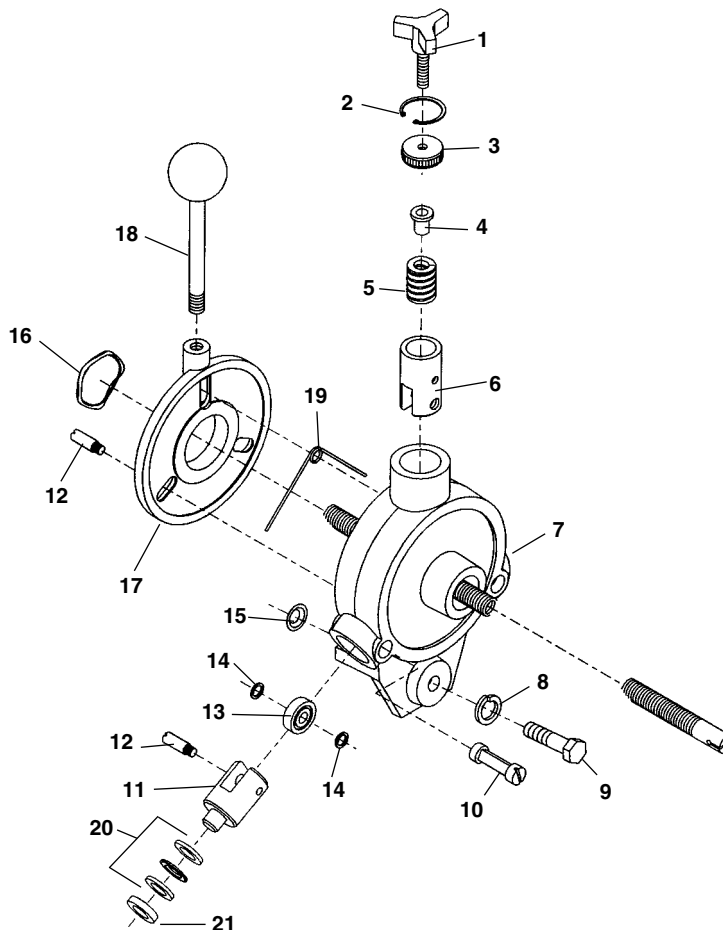
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description
—	43637	Drum Assembly w/5/8" Pigtail
—	41982	Drum Assembly w/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	5/16" - 18 Lock Nut (10)
8	44037	Guide Tube Assembly
9	44117	3/4" Pigtail Assembly
	44122	5/8" Pigtail Assembly
10	89815	Grease Fitting
11	44057	Hex Nut 5/8" - 18
12	44047	Internal Lock Washer
13	44042	5/8" Flat Washer
14	44052	Screw 1/4" - 20 x 5/8" S.H. (3)
15	45150	1/4" Lock Washer (3)



AUTOFEED® Assembly

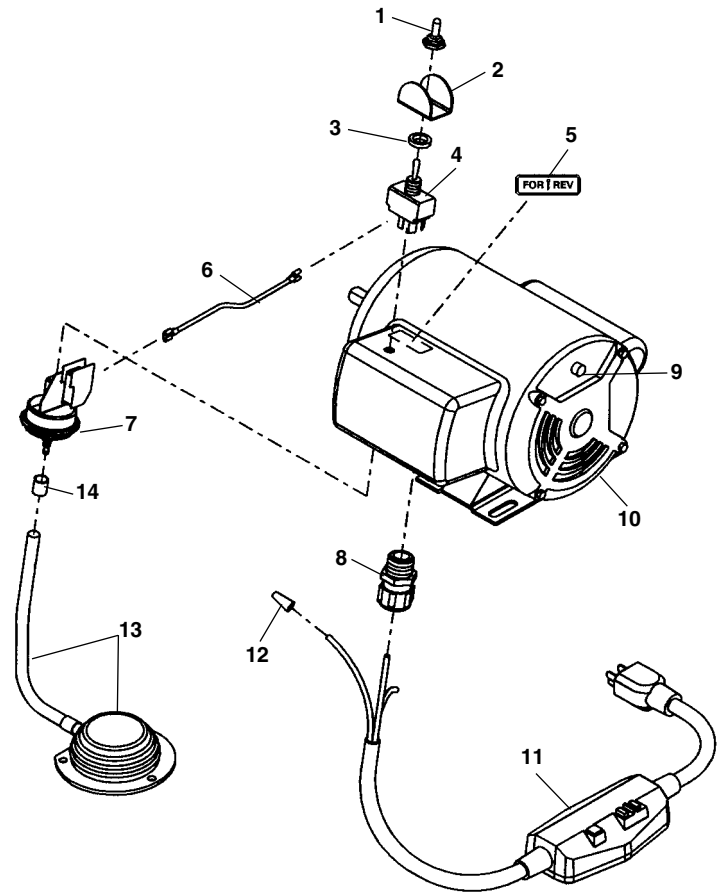
Ref. No.	Catalog No.	Description
—	43642	AUTOFEED® Assembly
1	93580	Feed Knob
2	93500	Retaining Ring
3	93600	Knurled Nut
4	93475	Ball Holder
5	93375	Spring
6	44062	Moveable Roller Holder
7	44067	AUTOFEED® Housing
8	43942	1/2" Lock Washer (2)
9	45287	Screw 1/2" - 13 x 2" Hex Head (Torque to 25-30 ft. 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)



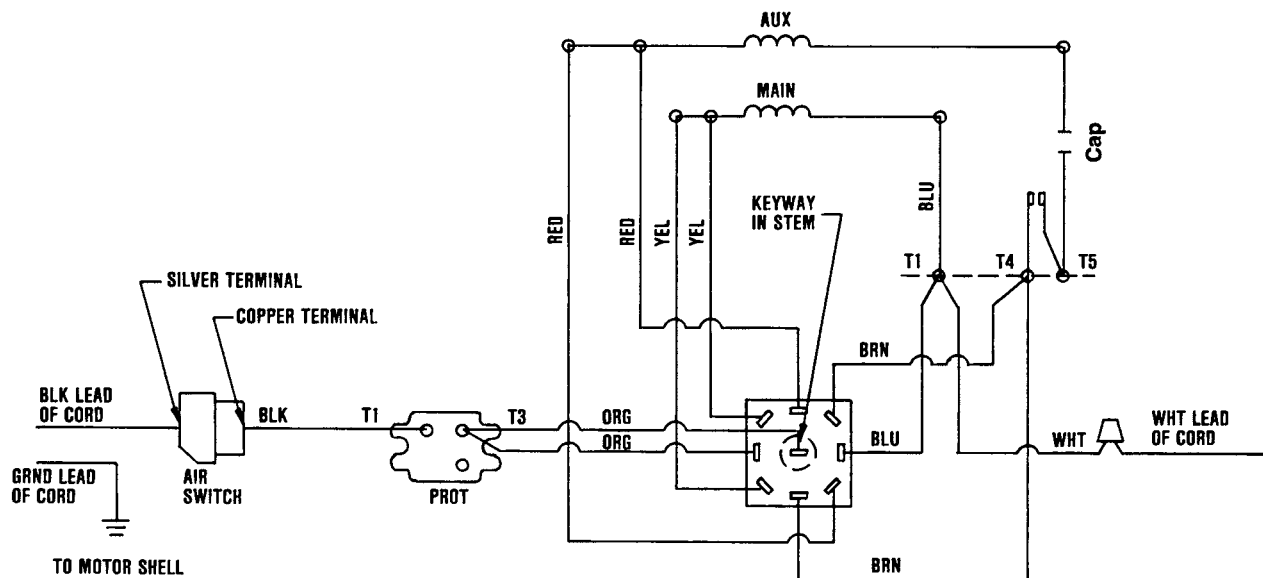
120V 60 Hz Motor

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

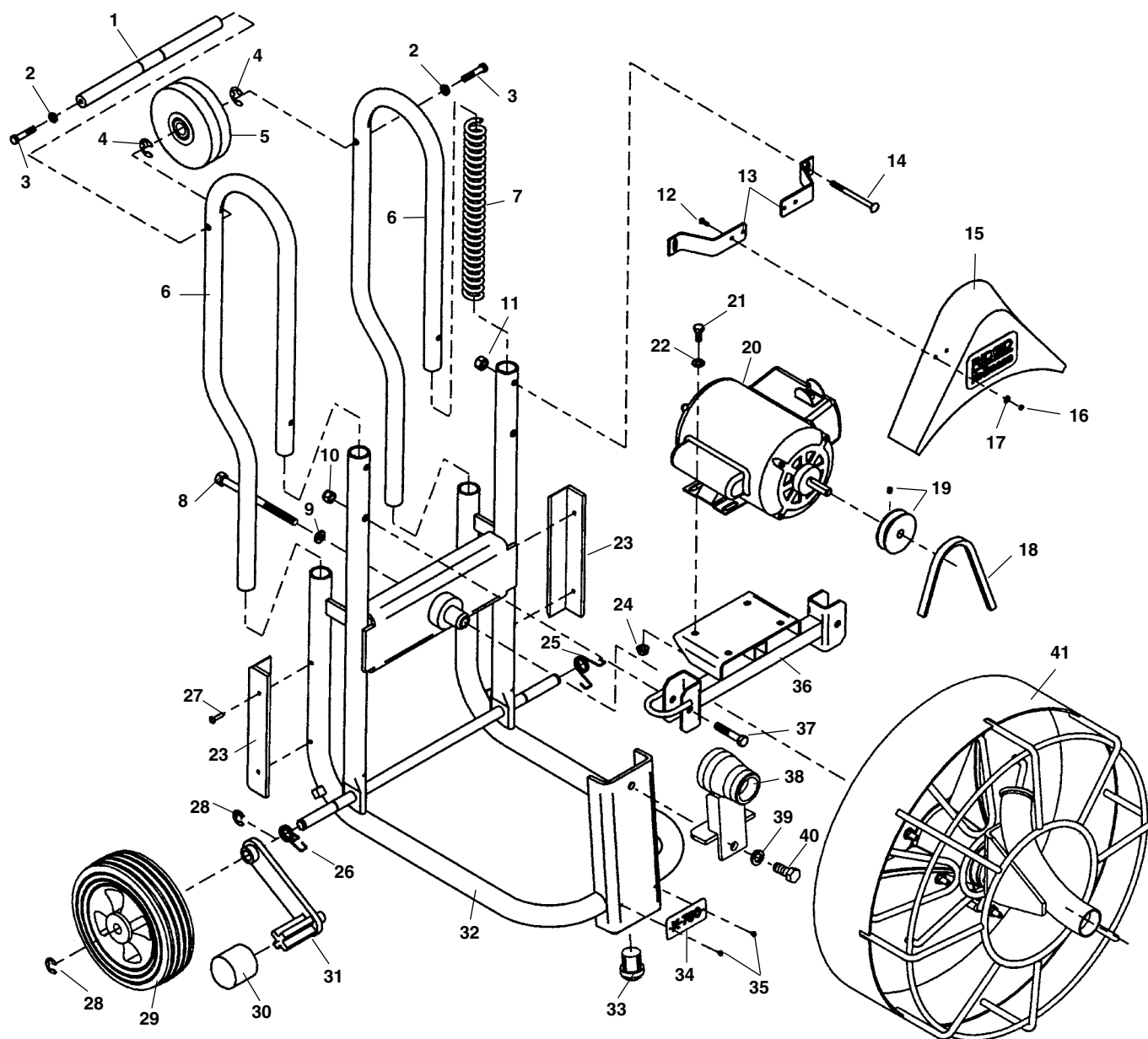
Ref. No.	Catalog No.	Description
1	23507	Rubber Boot
2	61490	Switch Guard
3	23512	Rubber Washer
4	41817	Switch
5	23687	FOR/REV Label
6	44877	Lead Wire Assembly
7	32992	Air Switch
8	96265	Strain Relief
9	67422	Thermal Protector
10	70447	120V 60Hz Motor Assembly (Includes Ref. No. 1 - 9)
11	50507	120V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



Wiring Diagram 120V 60 Hz Motor



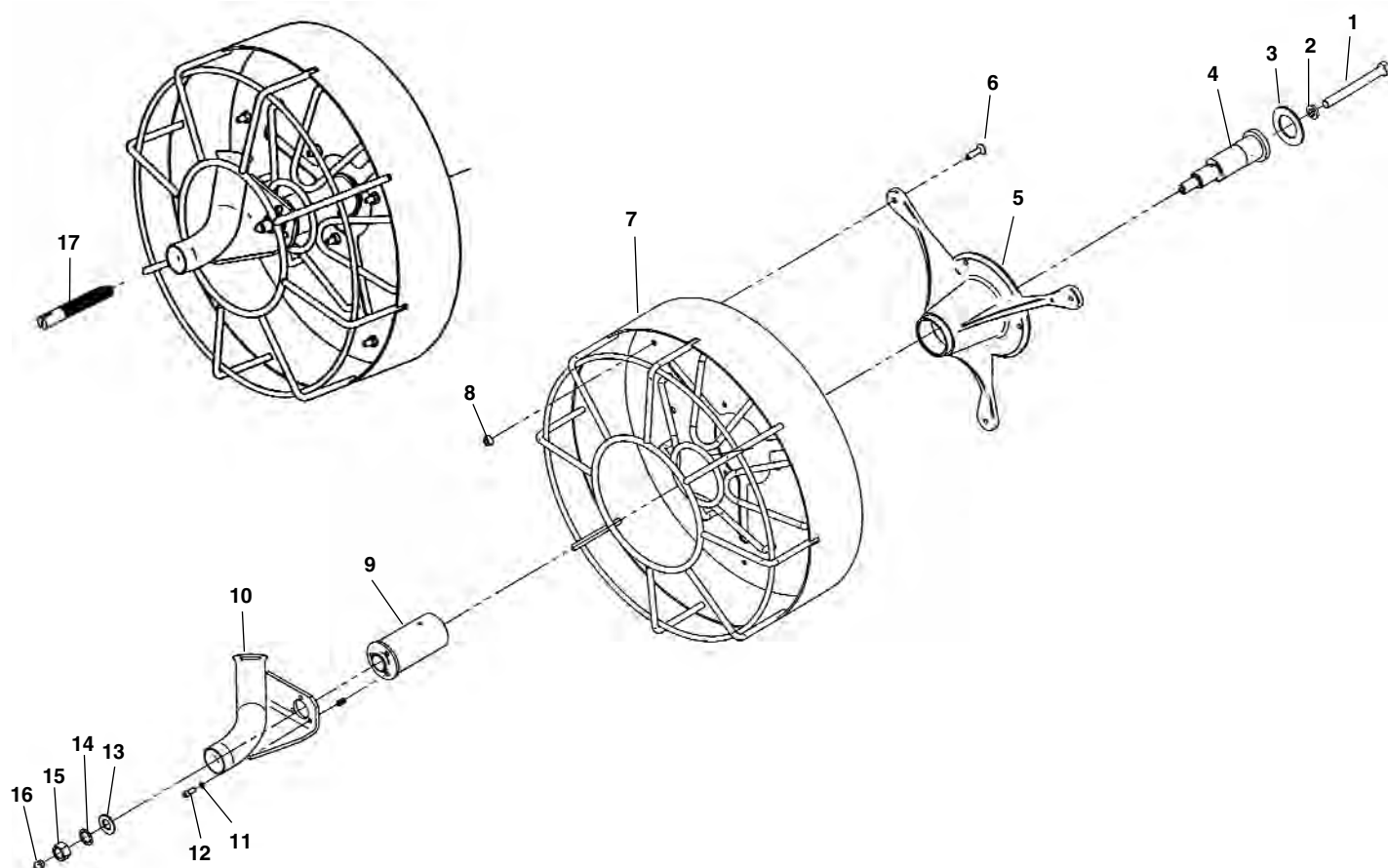
Frame and Drum Assembly



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



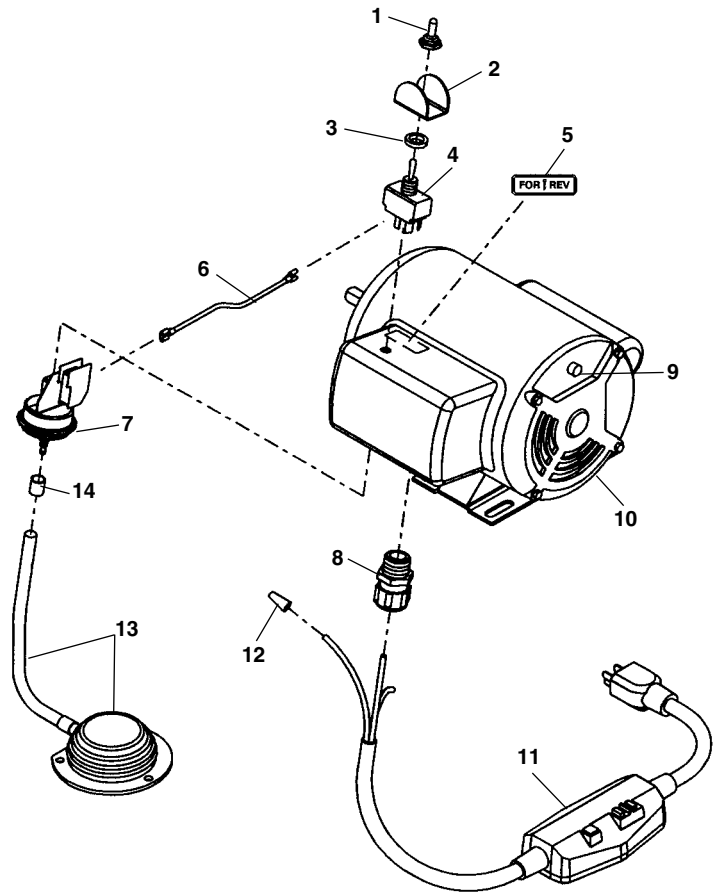
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

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

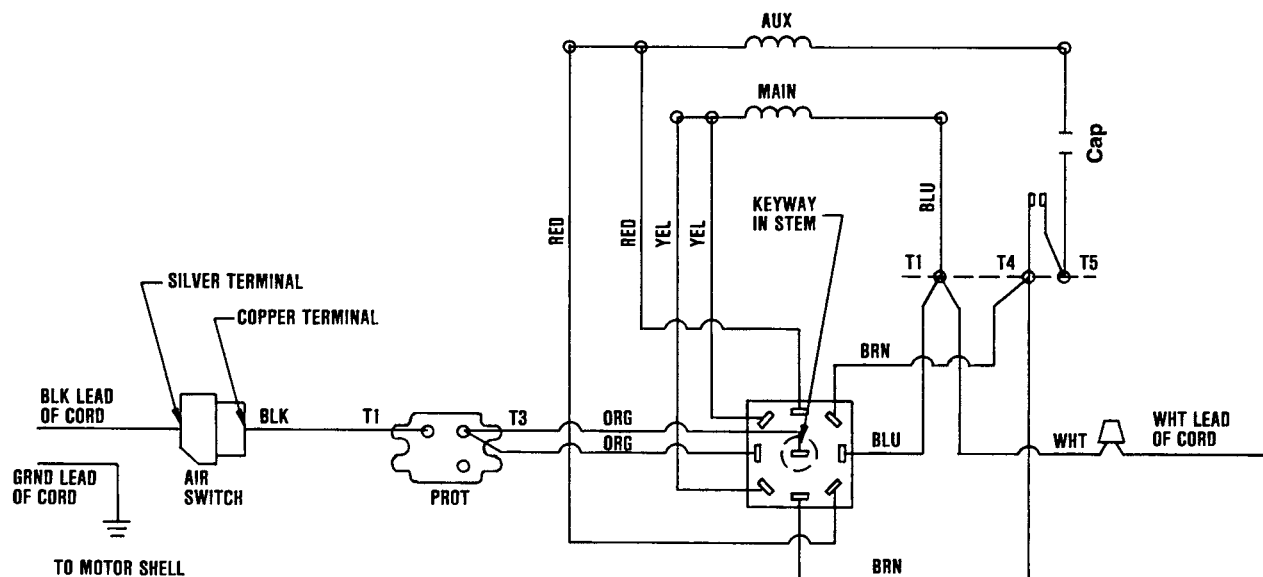
120V 60 Hz Motor

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

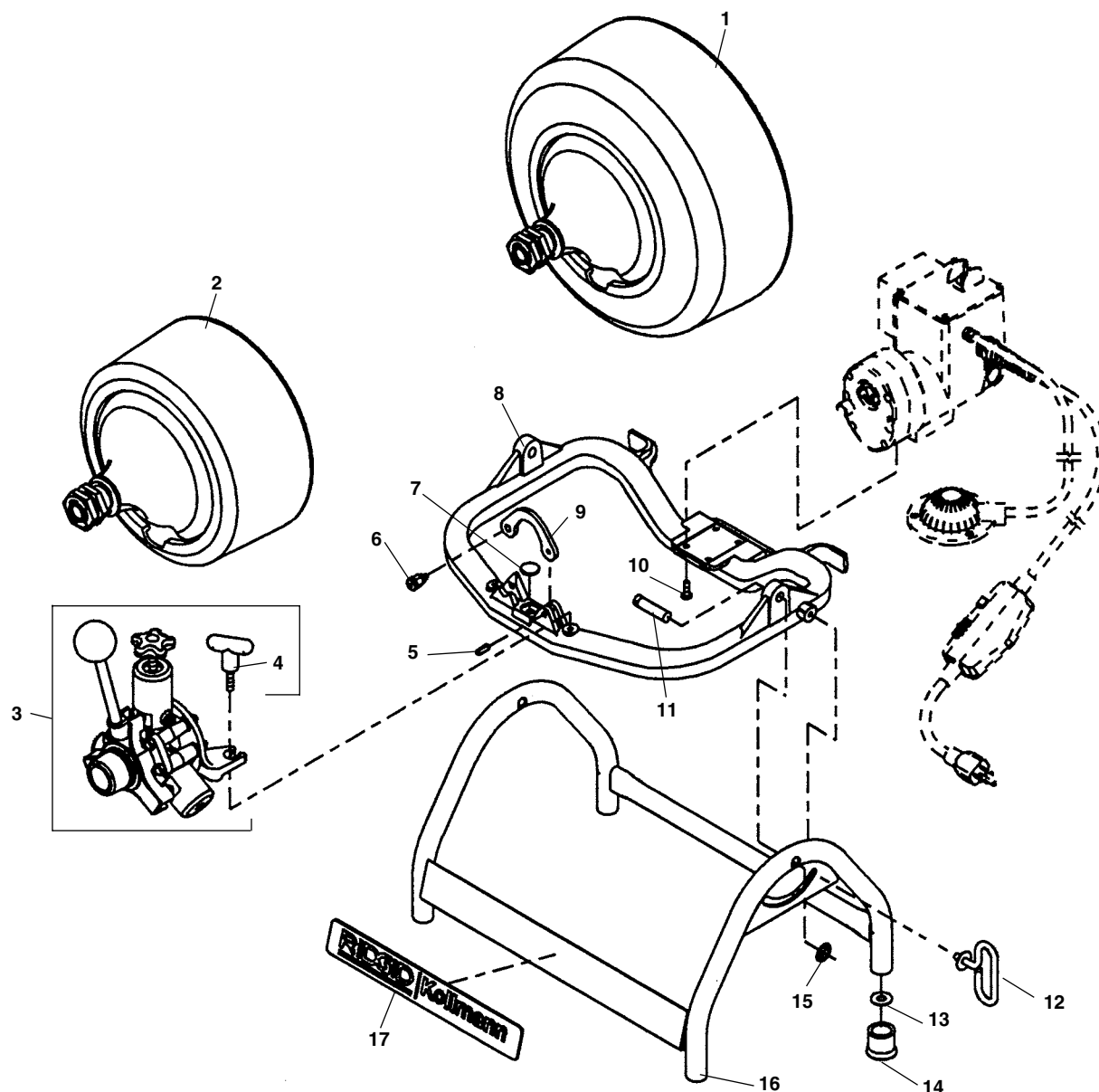
Ref. No.	Catalog No.	Description
1	23507	Rubber Boot
2	61490	Switch Guard
3	23512	Rubber Washer
4	41817	Switch
5	23687	FOR/REV Label
6	44877	Lead Wire Assembly
7	32992	Air Switch
8	96265	Strain Relief
9	67422	Thermal Protector
10	70447	120V 60Hz Motor Assembly (Includes Ref. No. 1 - 9)
11	50507	120V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



Wiring Diagram 120V 60 Hz Motor



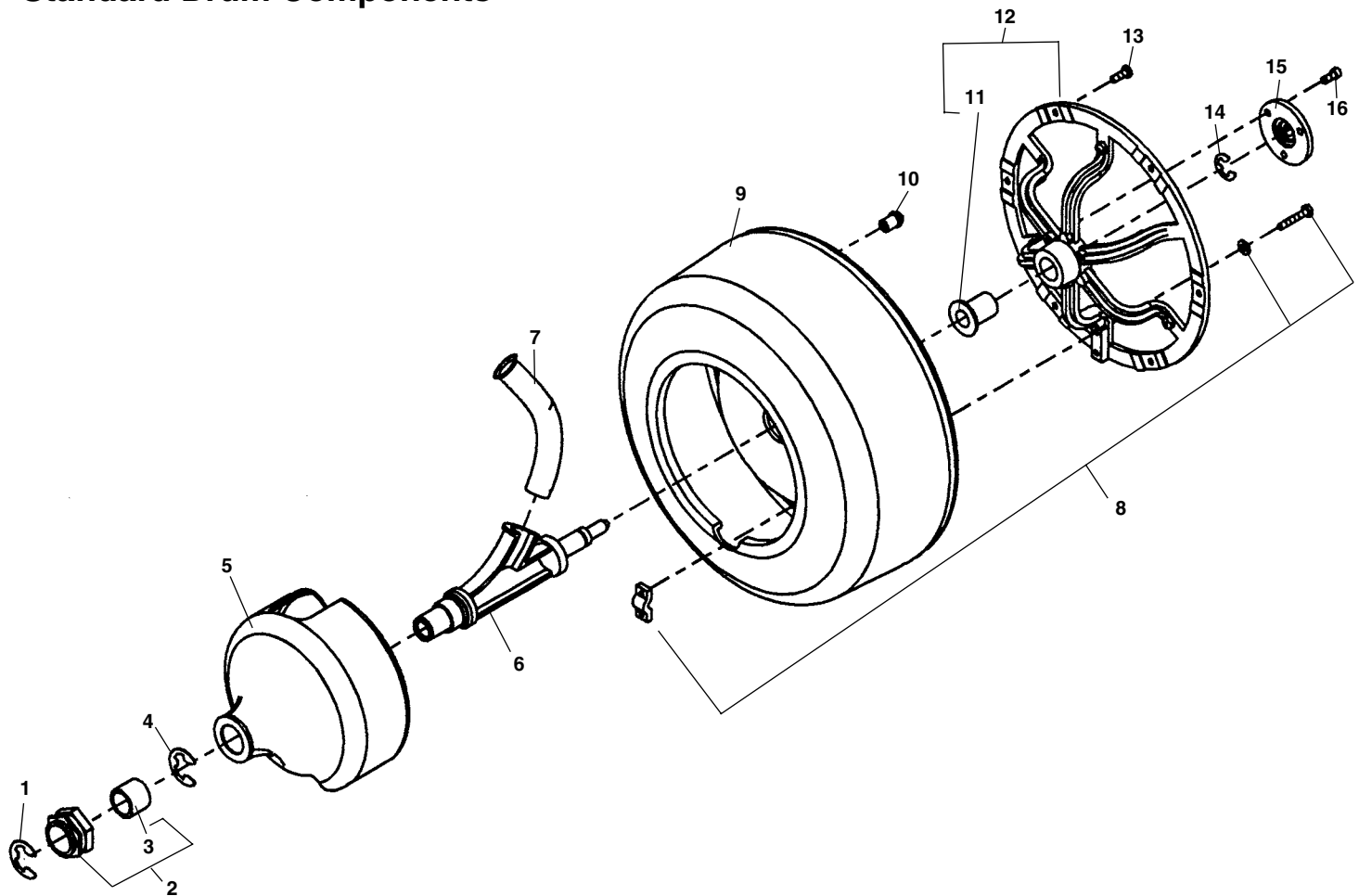
Main Components



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 1/4" - 20 x 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 3/8"
5	56177	Roll Pin 1/4" - 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			

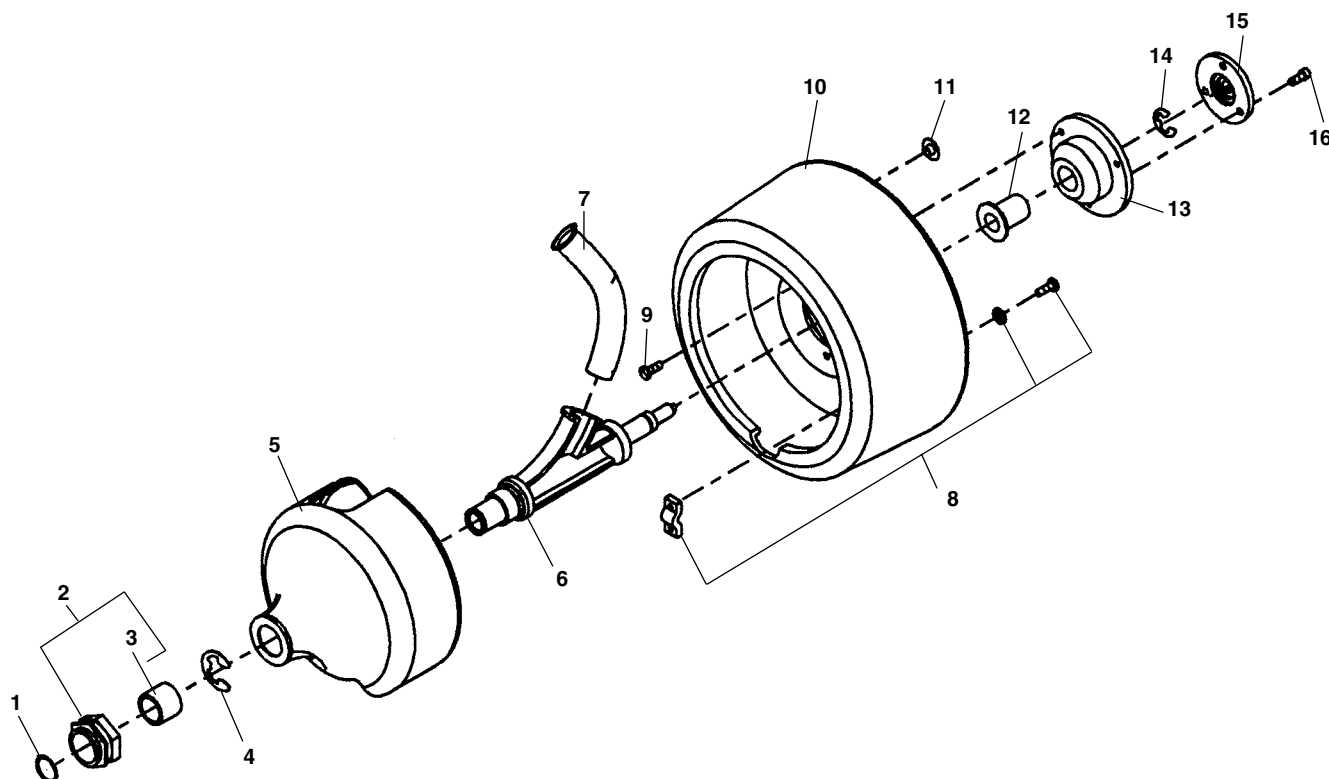
Standard Drum Components



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	60552	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			

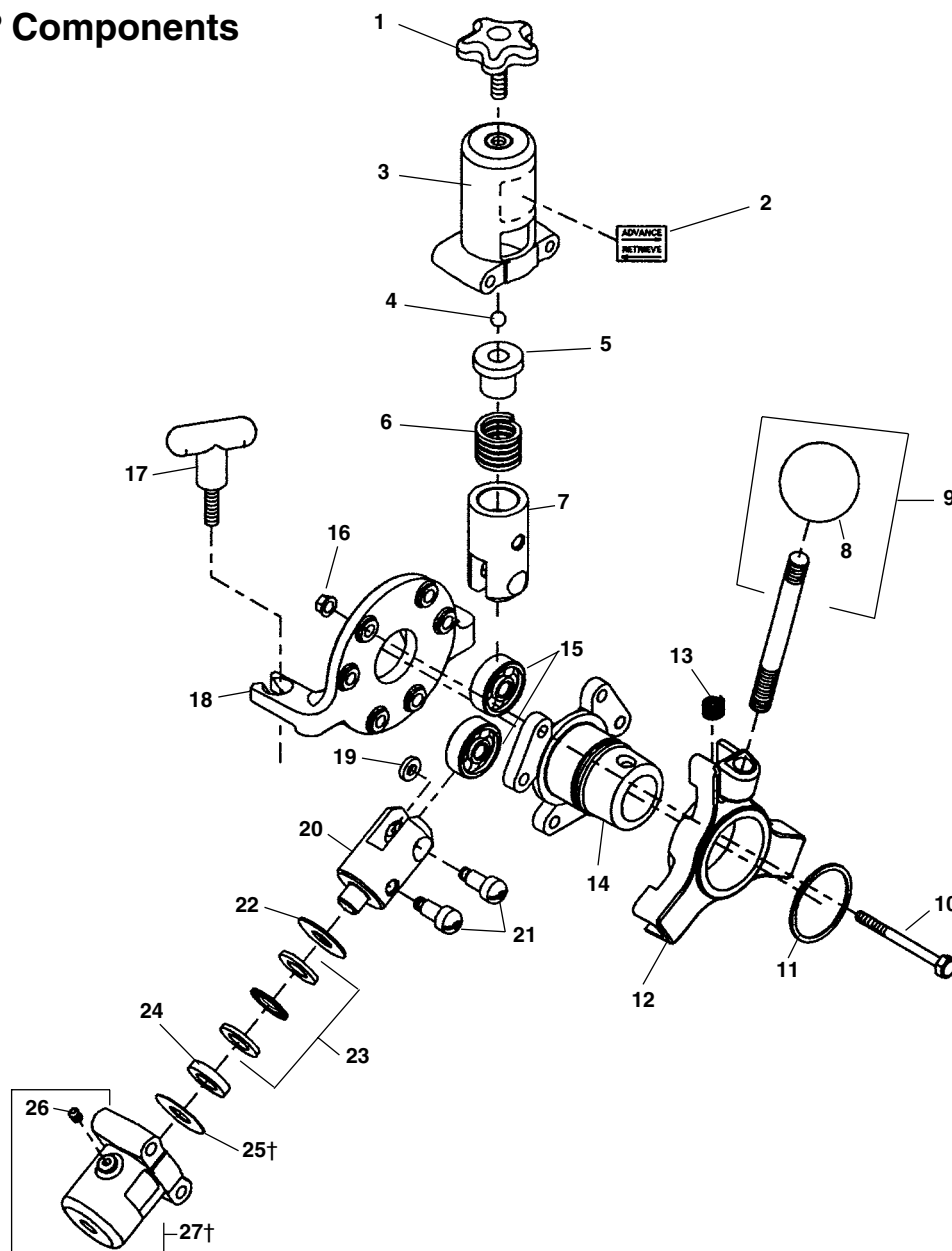
Sink Drum Components



**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

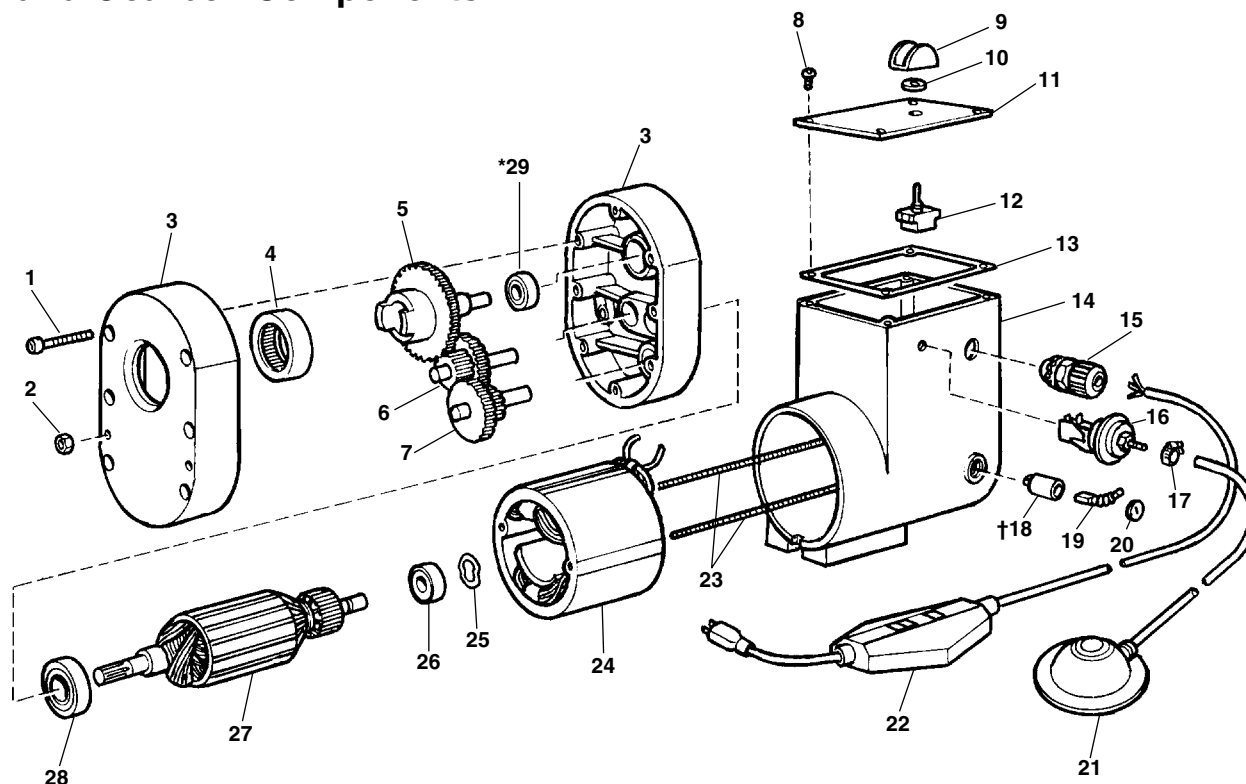


**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

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



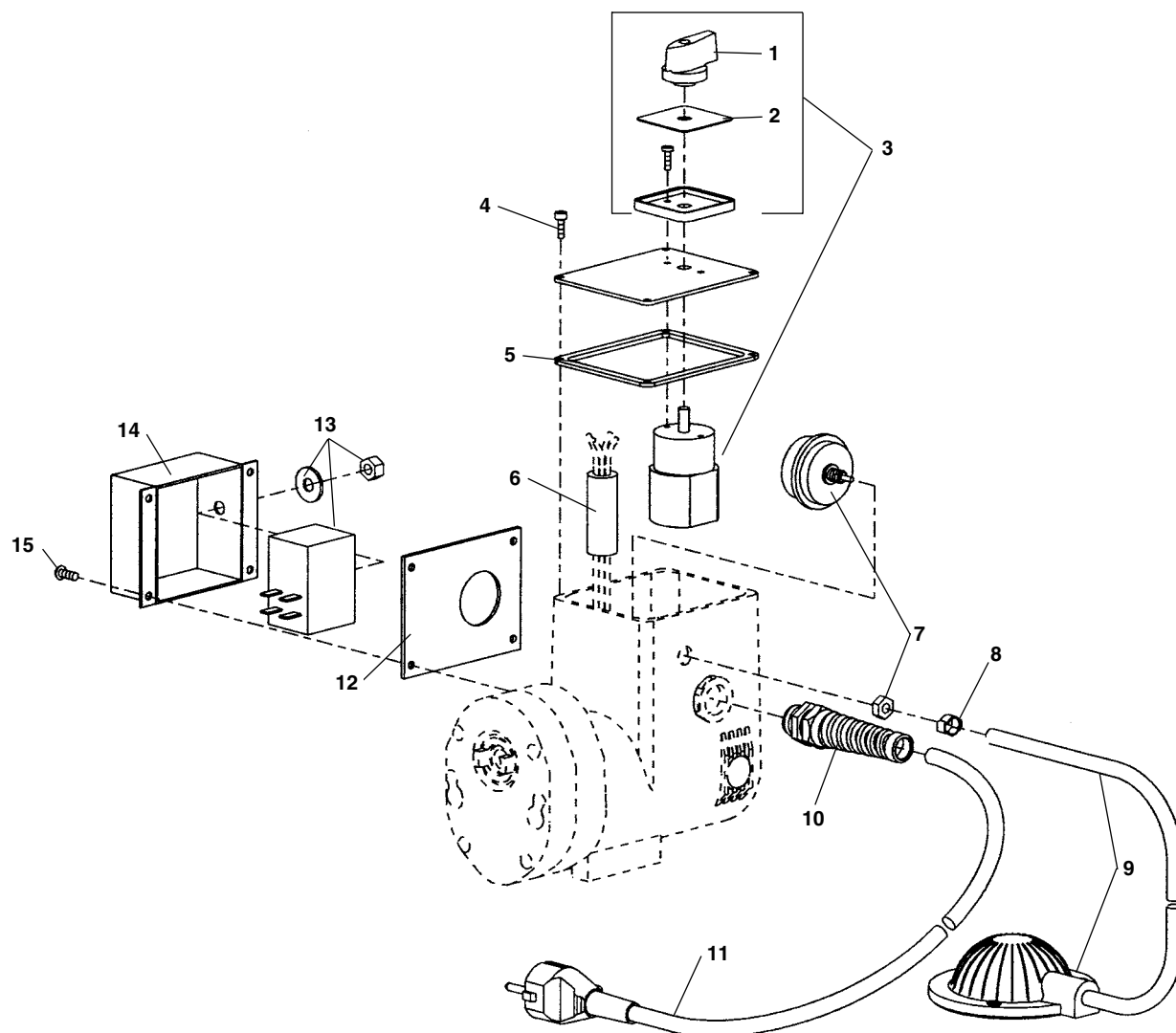
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

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

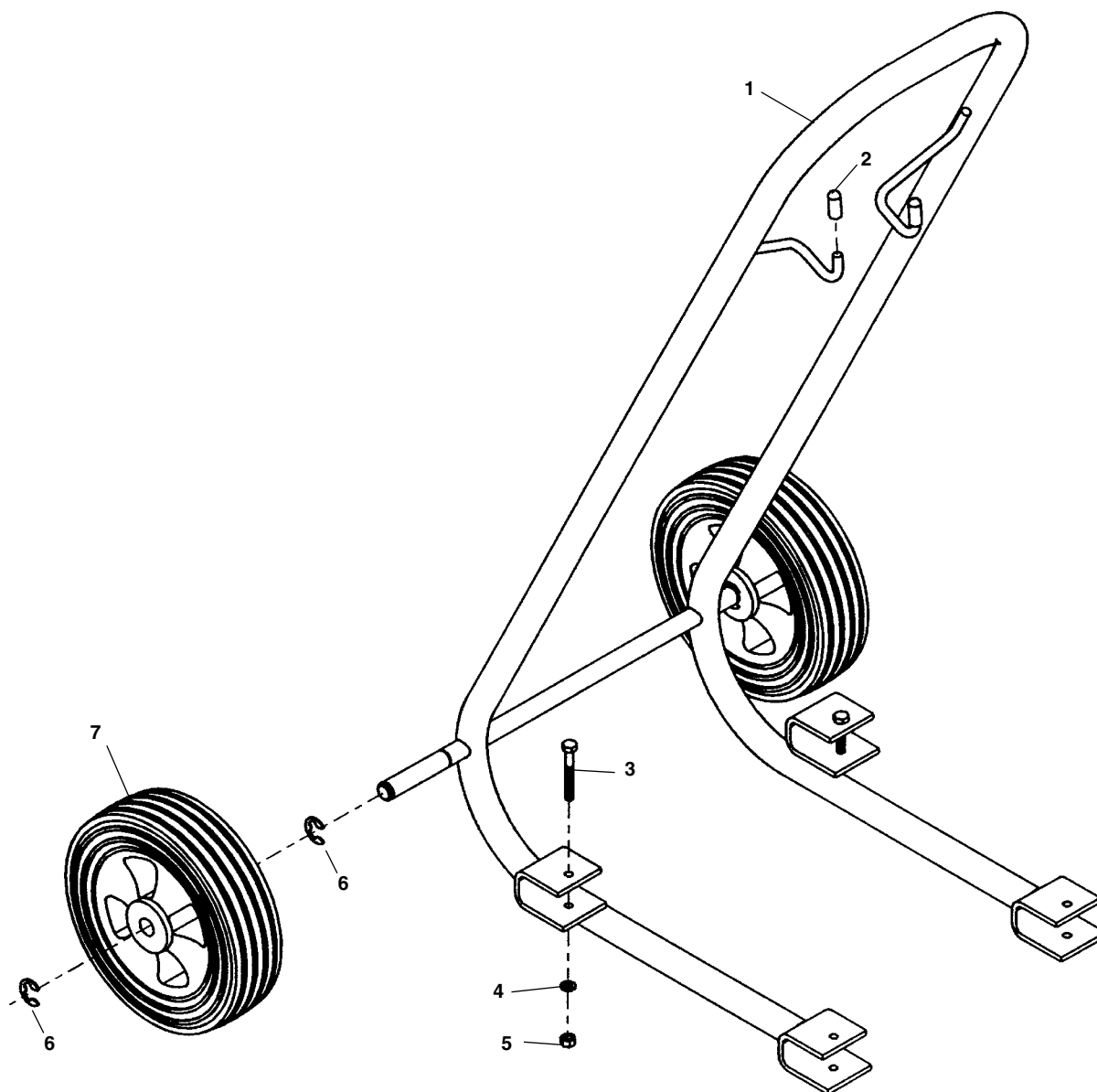


**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

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.

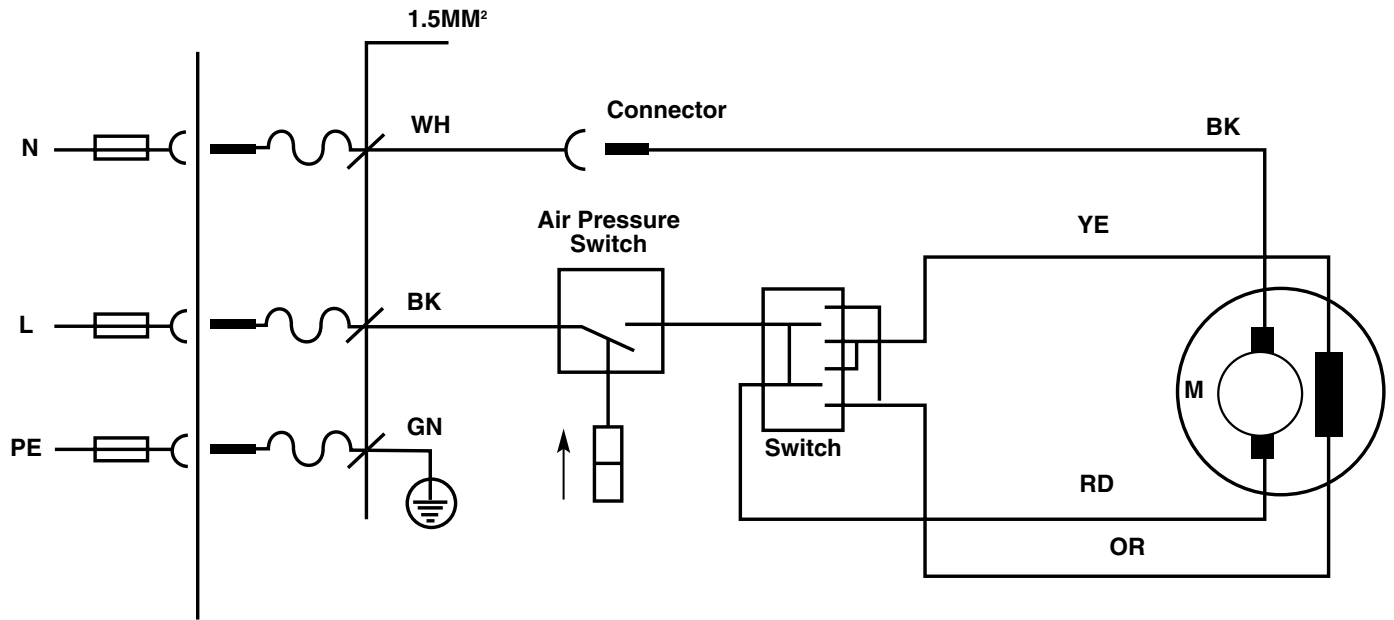
Transport Cart Components



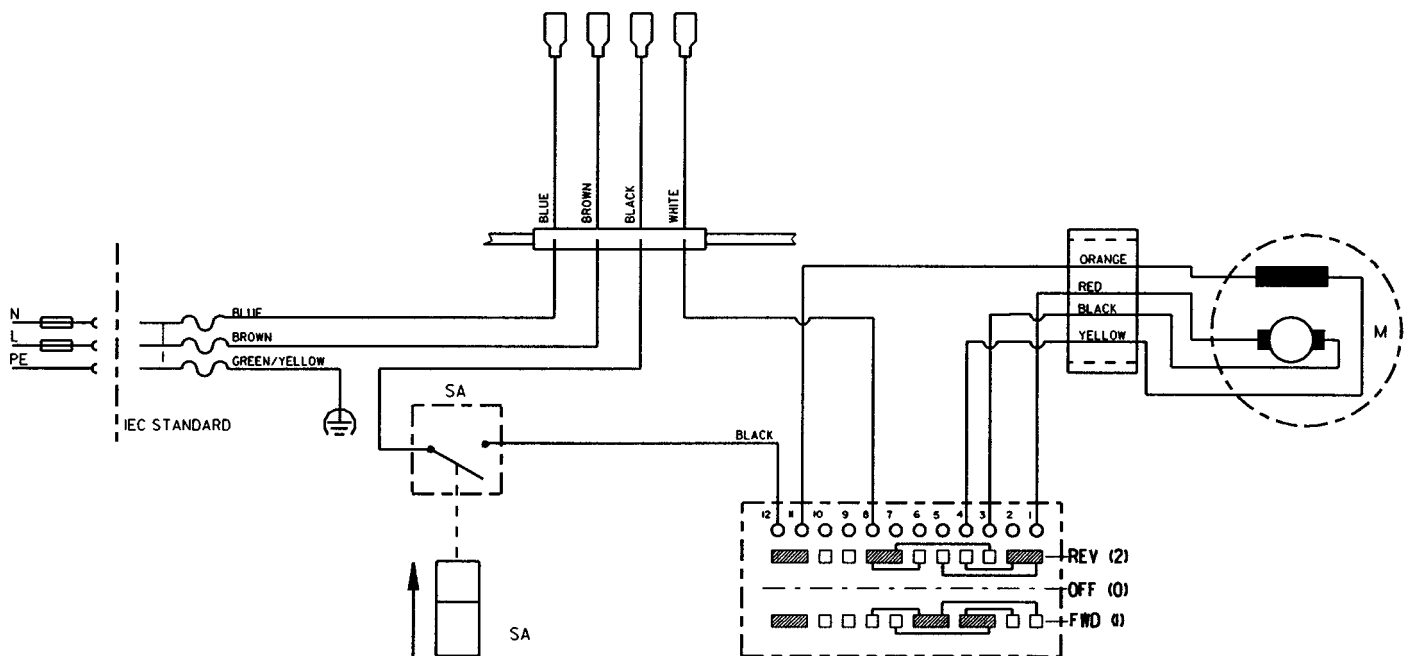
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

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)

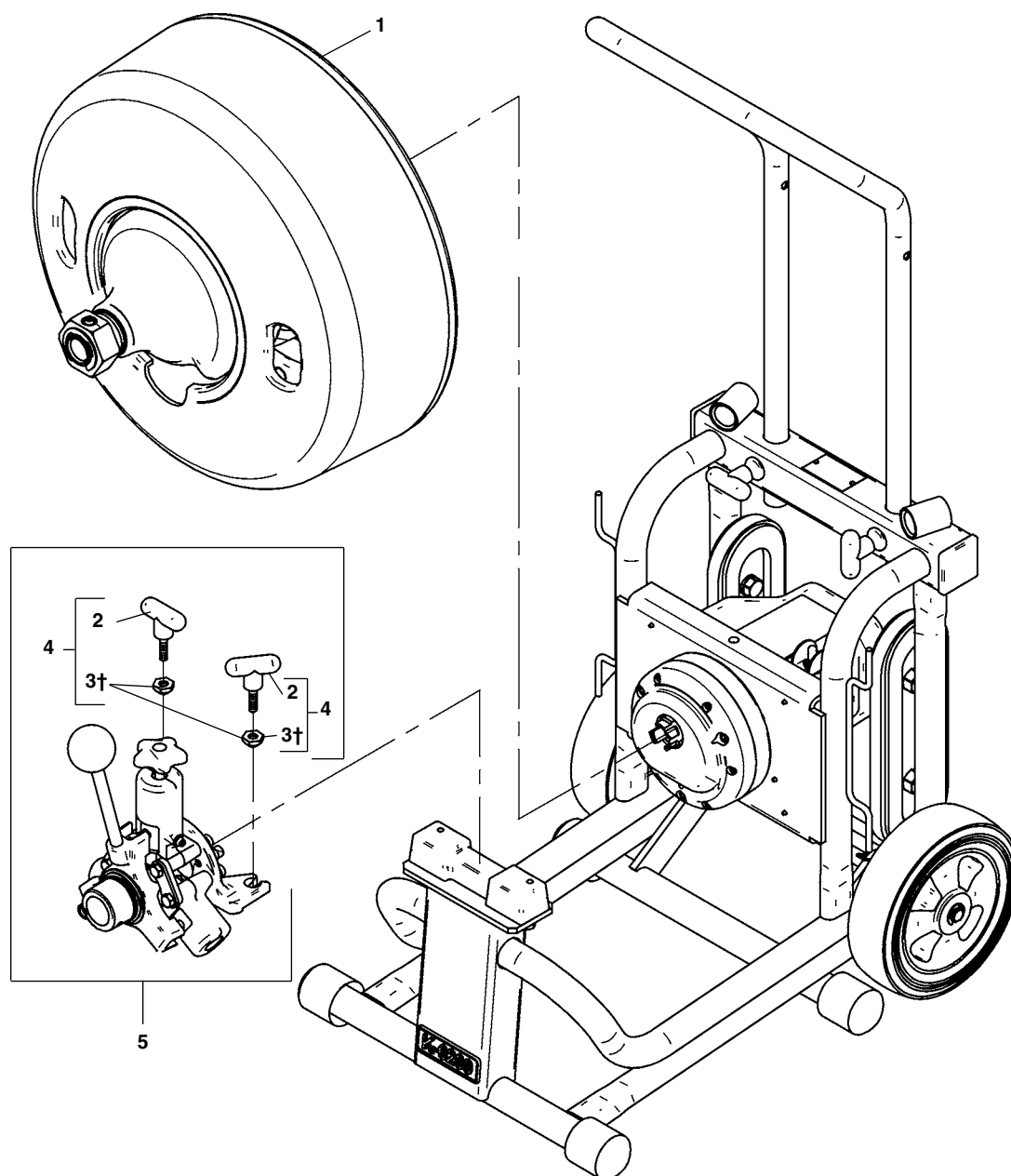
Wiring Diagram 115V/25-60 Hz



Wiring Diagram 110/220V 50 Hz



Main Components

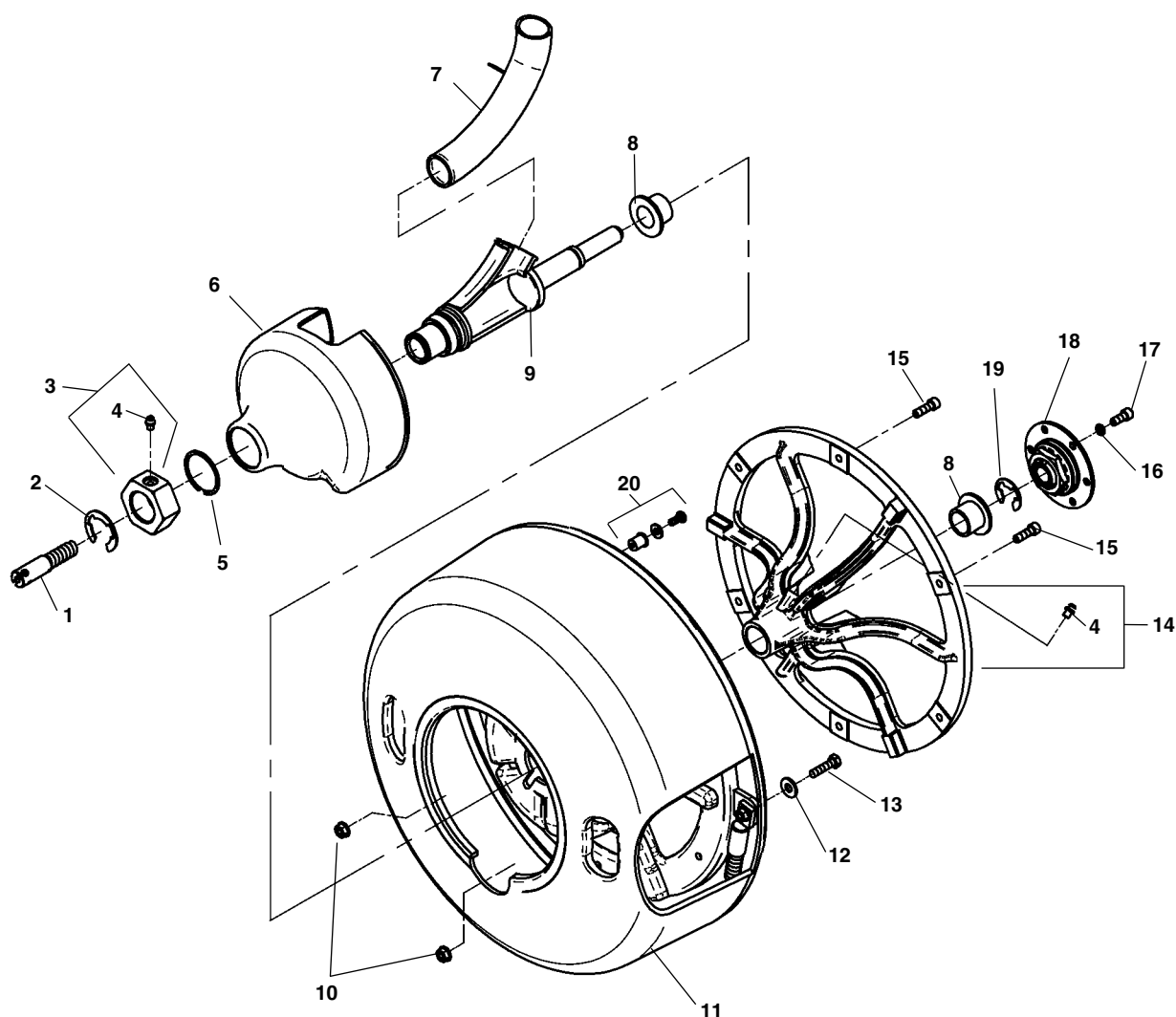


**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description
1	95802	Drum Assembly
2	60622	Mounting Knob (2)
3†	95832	Locator Ring (2)
4	60672	Mounting Knob Assembly (2)
5	95812	AUTOFEED® Assembly

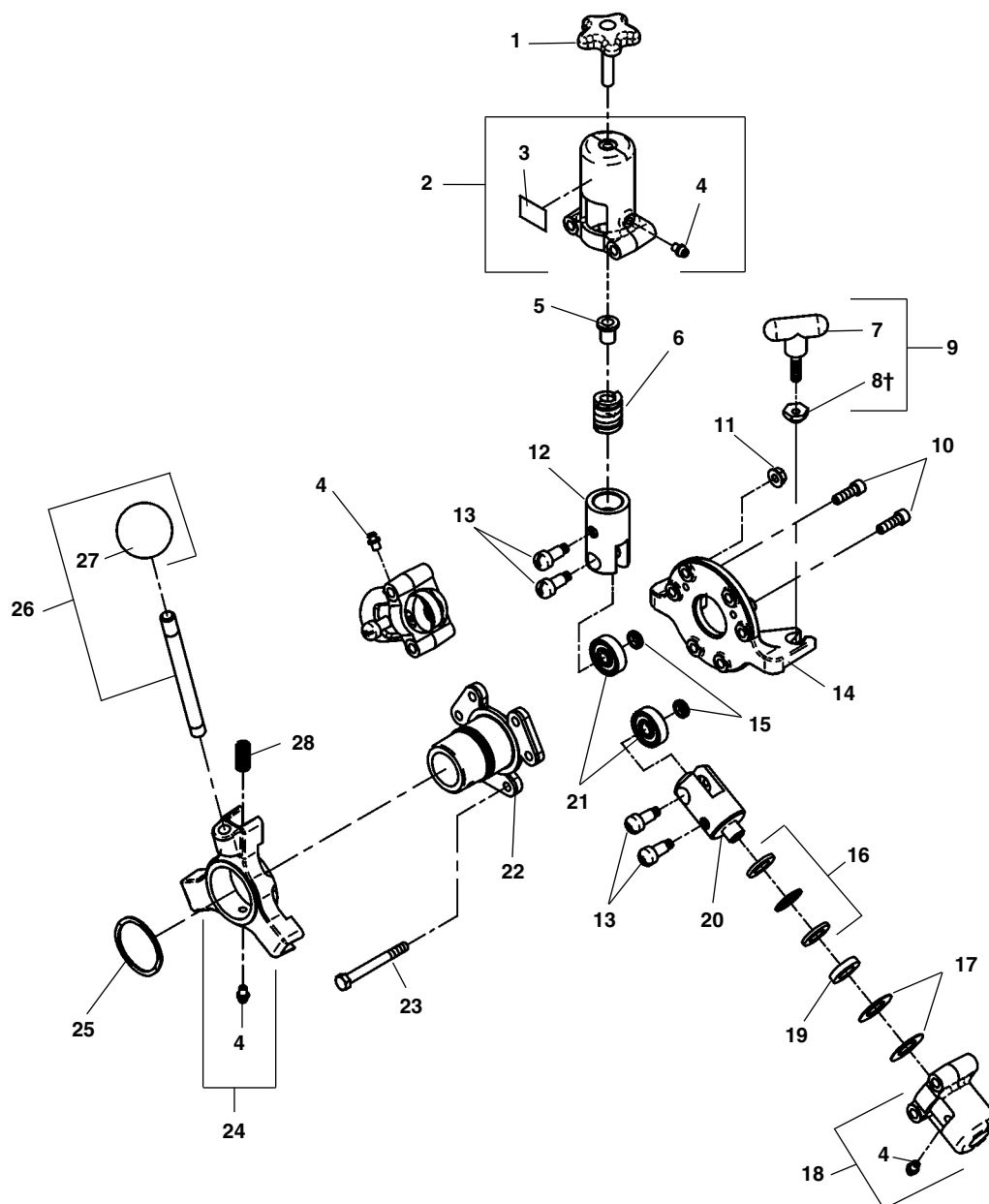
† Apply Loctite to Locator Ring.

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
—	95802	Drum Assembly	11	95662	Drum
1	44122	Pigtail	12	35005	Washer, Flat $\frac{5}{16}$ "
2	64042	Retaining Clip	13	60515	Screw, Hex Head $\frac{5}{16}$ " - 18 x 1 $\frac{1}{4}$ "
3	95692	Bearing Block	14	95667	Drum Support
4	89810	Grease Fitting (2)	15	61020	Screw, Socket Head $\frac{5}{16}$ " - 18 x 1" (6)
5	95697	Retaining Ring	16	95837	Washer, Lock $\frac{5}{16}$ " (3)
6	95687	Inner Drum	17	32270	Screw, $\frac{5}{16}$ " - 18 x $\frac{3}{4}$ " (3)
7	95682	Guide Tube	18	95702	Clutch Assembly
8	95672	Flange Bearing (2)	19	44860	Retaining Clip
9	95677	Guide Tube Shaft	20	60552	Drain Plug
10	27517	Nut, Flange $\frac{5}{16}$ " - 18 (7)			

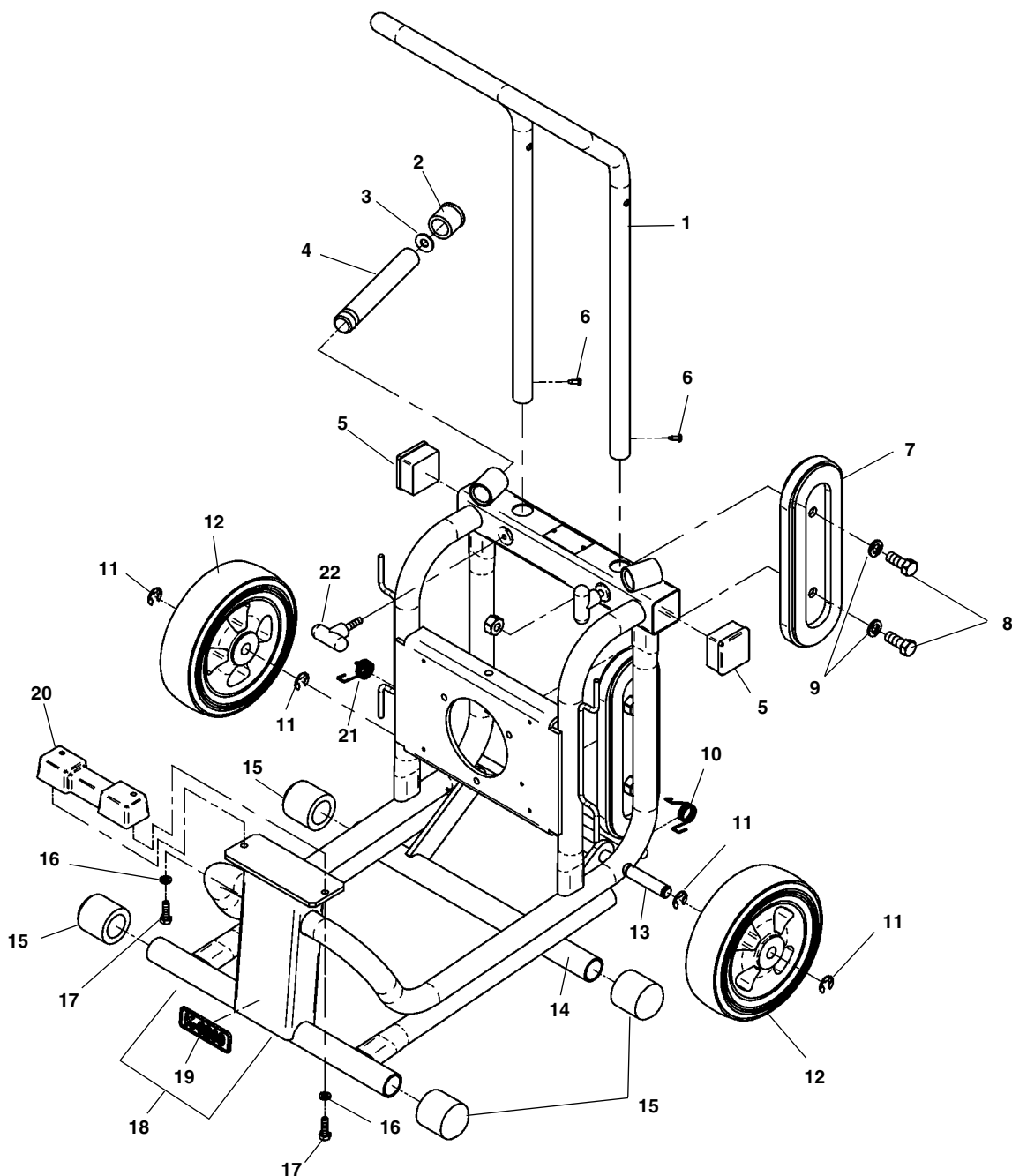
AUTOFEED®


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

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
—	95812	AUTOFEED® Assembly	15	60717	Bearing Spacer (3)
1	60682	Feed Knob	16	68367	Thrust Bearing Assembly (2)
2	60692	Top Roller Housing	17	60037	Spacer (4)
3	60762	Advance/Retrieve Label	18	60727	Stationary Roller Housing (2)
4	89810	Grease Fitting (4)	19	68372	Spacer 0.235" (2)
5	93475	Ball Holder	20	60722	Stationary Roller Holder (2)
6	93375	Spring	21	60752	Roller Bearing (3)
7	60622	Mounting Knob (2)	22	60747	Front Support Plate
8†	95832	Locator Ring (2)	23	60737	Bolt 5/16" - 18 x 3", Hex Head (6)
9	60672	Mounting Knob Assembly (2)	24	60742	Actuator
10	32270	Screw Socket Head 5/16" - 18 x 3/4" (2)	25	44112	Retaining Ring
11	27517	Lock Nut 5/16" - 18 (6)	26	93630	Clutch Handle Assembly w/Knob
12	60707	Movable Roller Holder	27	59585	Knob
13	60732	Actuator Pin (6)	28	60697	Return Spring
14	95632	Back Support Plate			

† Apply Loctite to Locator Ring

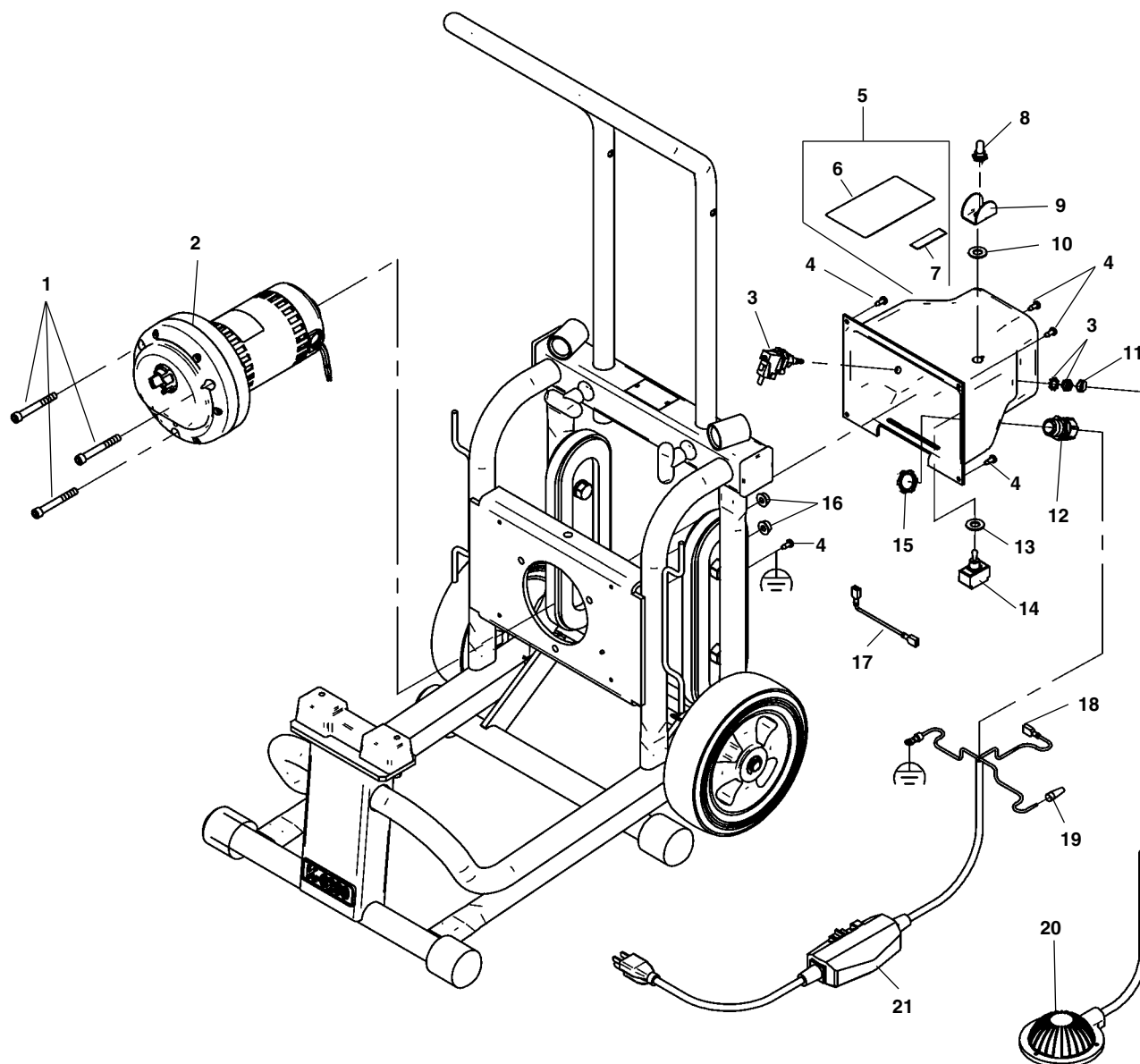
Frame



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

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	95657	Handle	12	93325	Wheel (2)
2	37962	Rubber Tip (2)	13	95642	Axle
3	44215	Washer, Flat (2)	14	95647	Stabilizer
4	95867	Pipe Leg (2)	15	23607	End Cap (2)
5	66027	Square Plug (2)	16	60080	Washer, Lock $\frac{5}{16}$ " (2)
6	68937	Self-Tap Screw (2)	17	60820	Screw, Hex Head $\frac{5}{16}$ " - 18 x 1" (2)
7	60607	Stairclimber (2)	18	95637	Frame
8	60020	Bolt, Hex Head $\frac{1}{2}$ " - 13 x $1\frac{1}{4}$ " (4)	19	95707	Model Plate
9	43942	Washer, Lock $\frac{1}{2}$ " (4)	20	95652	AUTOFEED® Support
10	43917	Spring LH	21	43922	Spring RH
11	42580	Retaining Ring (4)	22	60622	Mounting Knob (2)

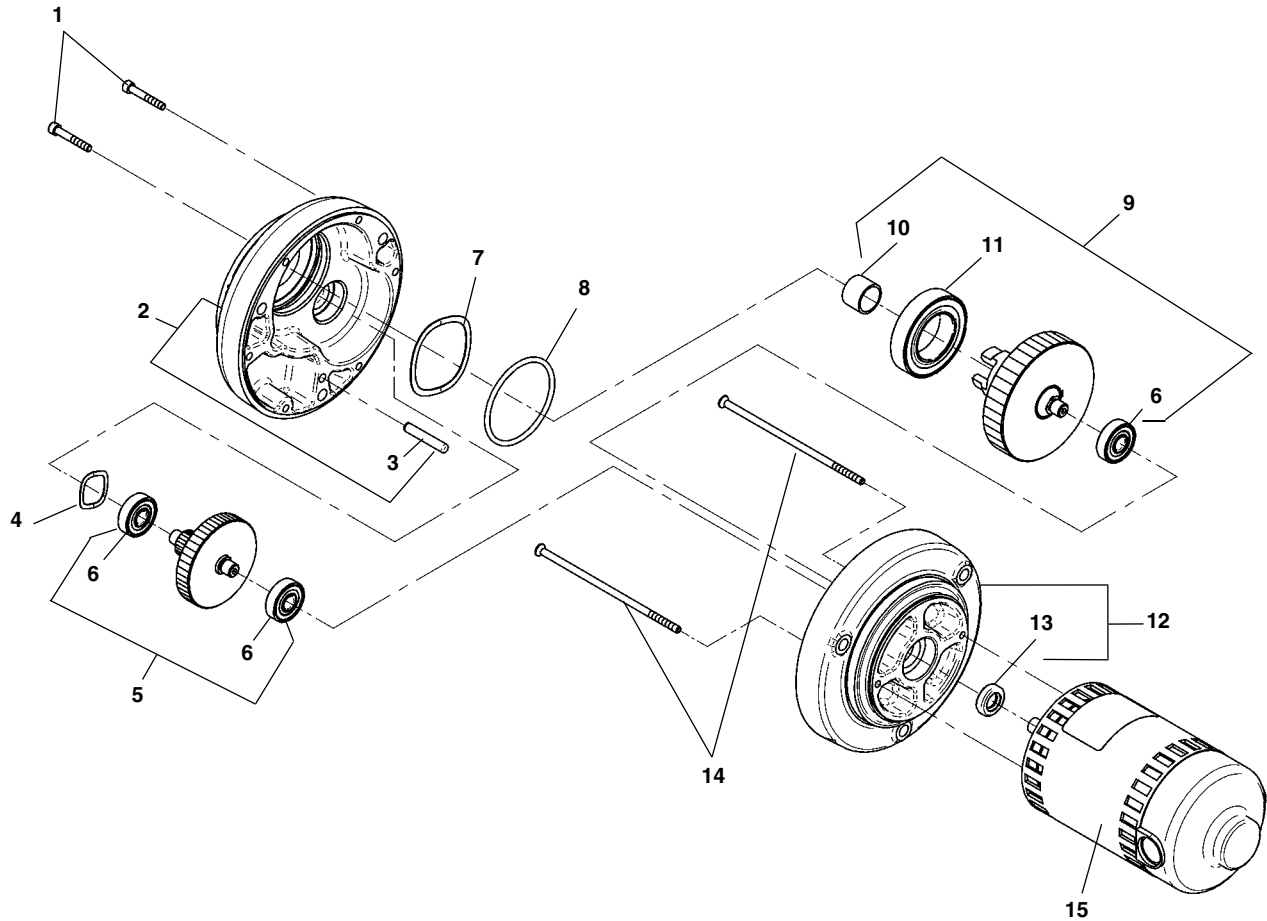
Electrical Components



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

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	27107	Screw, Socket Head $\frac{5}{16}$ " - 18 x 2 $\frac{1}{2}$ " (3)	12	96265	Strain Relief
2	95622	Motor Gearbox Assembly	13	66892	Locking Ring
3	32992	Air Switch	14	56252	Switch
4	68937	Screw, Self-Tapping (5)	15	80065	Nut, $\frac{3}{4}$ " NPT
5	92627	Motor Cover	16	27517	Nut, Flange $\frac{5}{16}$ " - 18 (3)
6	60767	Warning Decal	17	95842	Jumper Wire Assembly
7	23687	Forward-Off-Reverse Decal	18	48072	Quick Disconnect, Female (6)
8	23507	Rubber Boot	19	44635	Wire Nut
9	61940	Switch Guard	20	60462	Foot Switch
10	23512	Rubber Washer	21	50507	Power Cord, GFCI
11	35142	Hose Clamp			

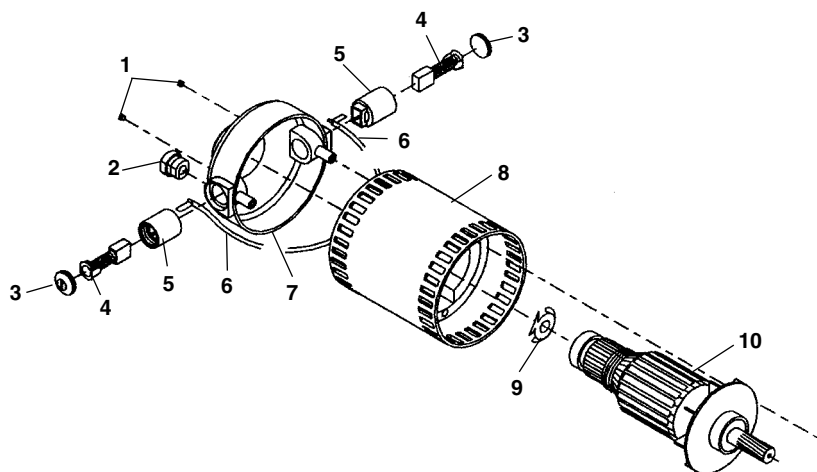
Motor/Gearbox Components



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

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
—	95622	Motor/Gearbox Assembly	8	95942	O-Ring
1	90255	Screw	9	95947	Output Gear Assembly
2	95922	Gearcase, Front	10	95952	Sleeve Bearing
3	95927	Pin	11	95957	Bearing
4	58502	Wave Washer	12	95962	Gear Case, Back
5	95932	Gear Assembly, 1st Intermediate	13	95967	Seal
6	44760	Bearing	14	60532	Screw
7	95937	Wave Washer	15	95972	Motor

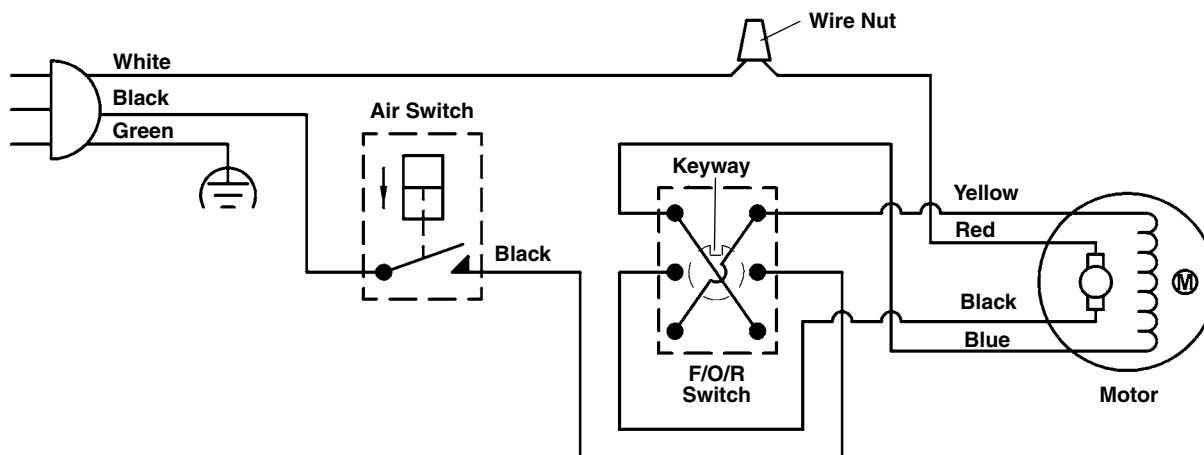
Motor Components



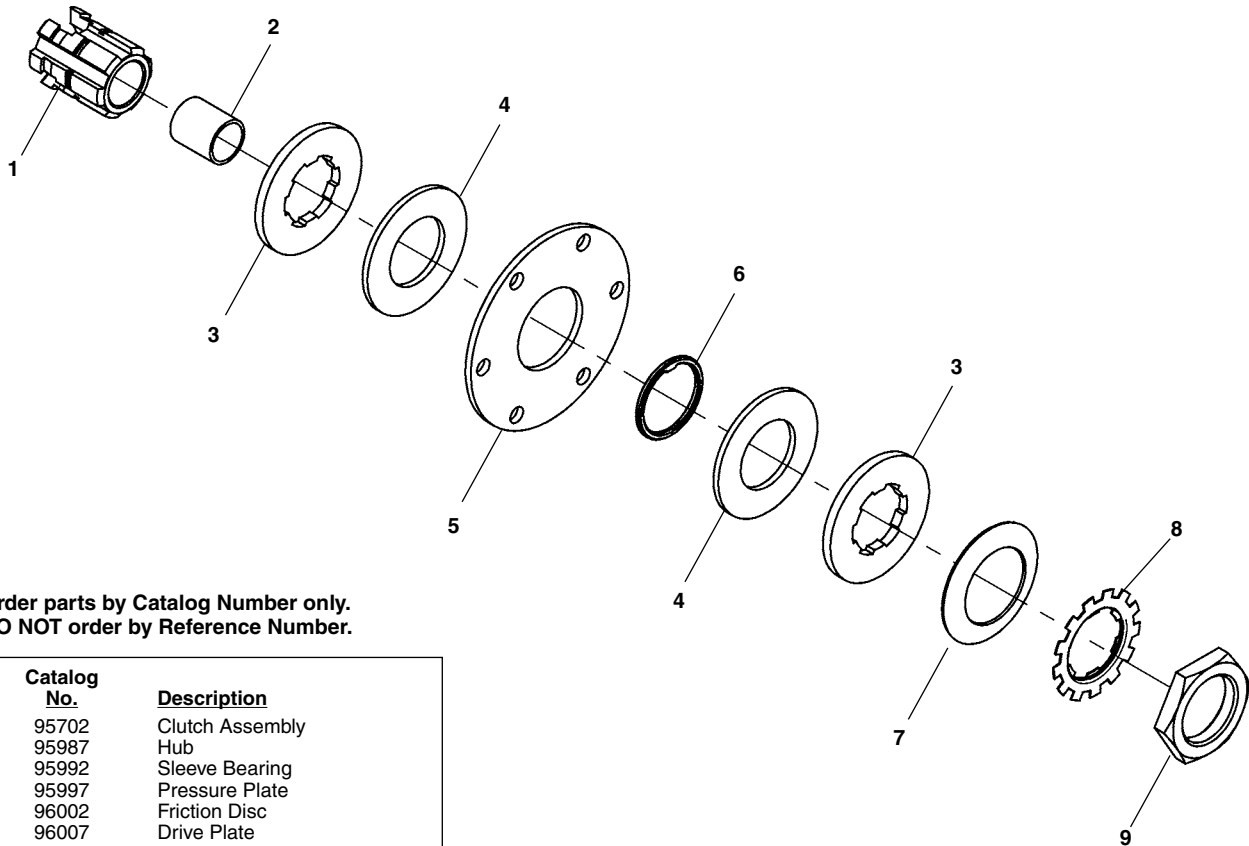
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description
—	95972	Motor
1	60492	Brush Holder Screw
2	69467	Strain Relief
3	60467	Brush Cap Set
4	60472	Brush Set
5	60482	Brush Holder Set
6	60487	Brush Lead Set
7	60522	Rear Housing
8	95927	Field w/Housing
9	60512	Loading Spring
10	95982	Armature w/Bearing

Wiring Diagram



Clutch

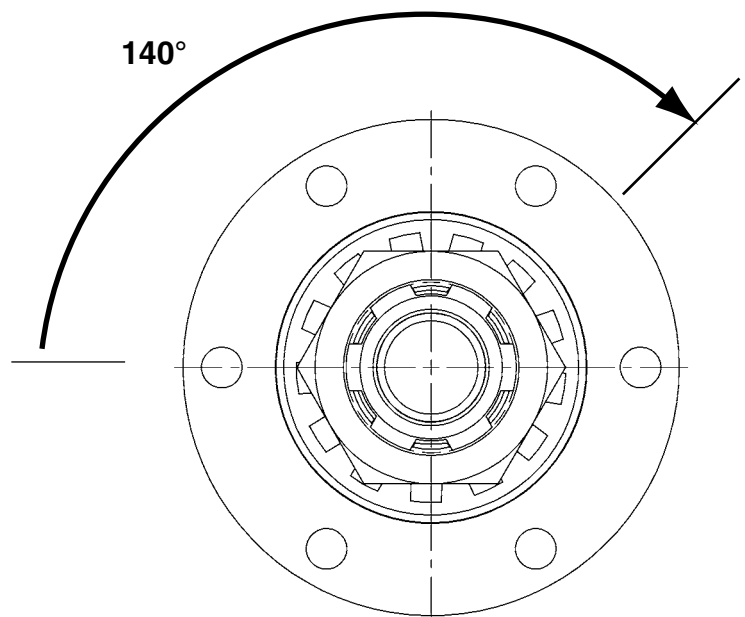


NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.

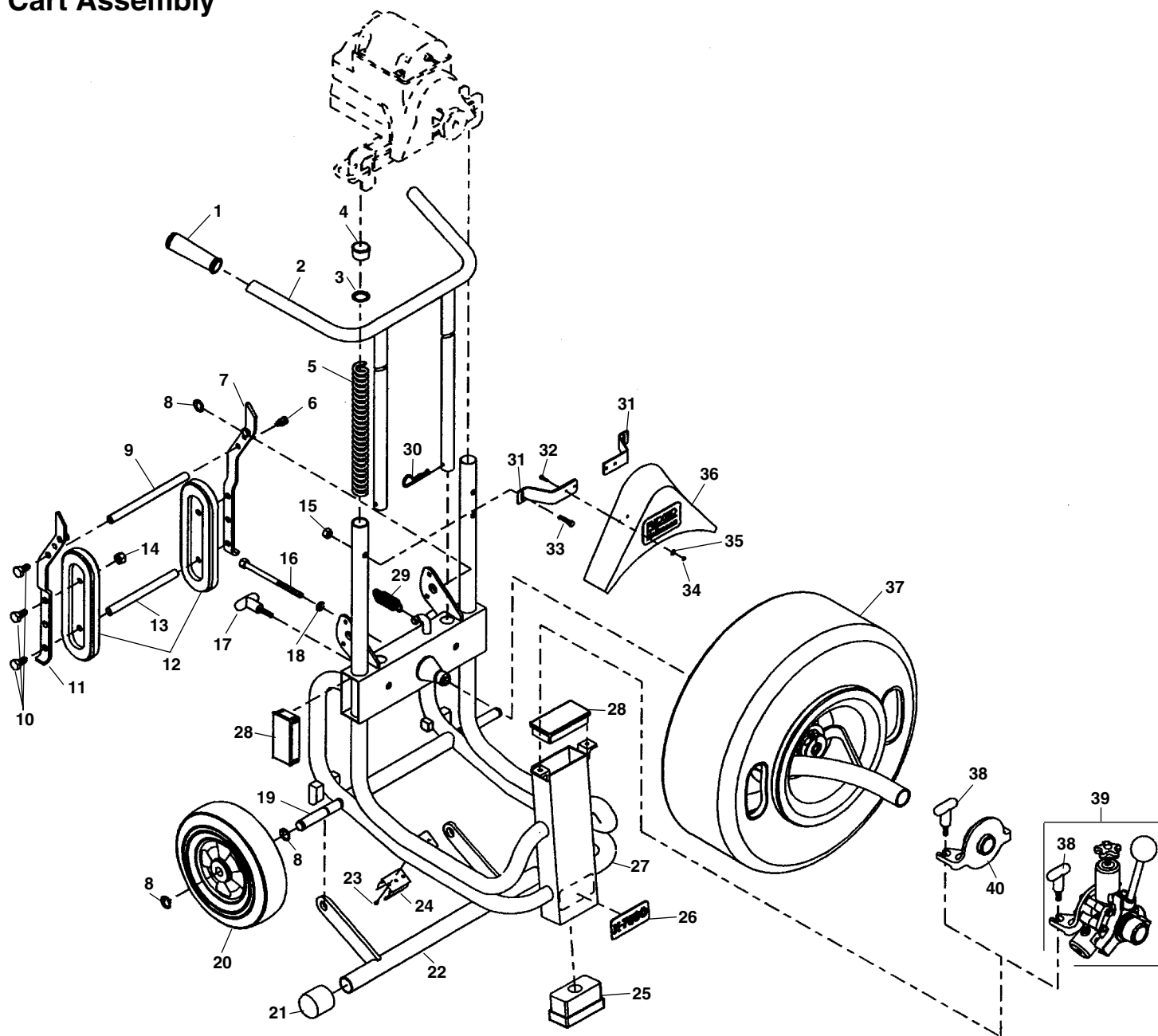
Ref. No.	Catalog No.	Description
—	95702	Clutch Assembly
1	95987	Hub
2	95992	Sleeve Bearing
3	95997	Pressure Plate
4	96002	Friction Disc
5	96007	Drive Plate
6	96012	Bearing Plate
7	96017	Spring Disc
8	96022	Lock Washer
9	96027	Nut

Clutch Tightening Specification

1. Hand tighten clutch nut.
2. Tighten nut 140 degrees past hand tight.



Cart Assembly



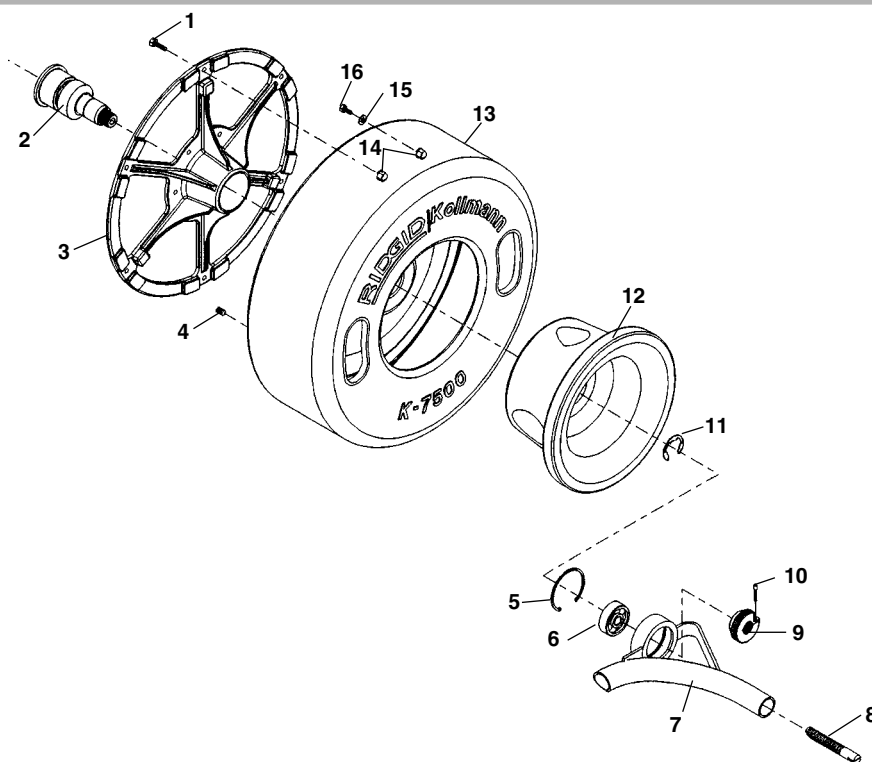
NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	60827	Hand Grips (2)	15	69010	Nut 1/4" - 20 (2)	29	60667	Spring
2	60587	Handle	16	60617	Bolt 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 1/2"	32	43962	Screws #10 - 24 x 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/5/8" Pigtail
10	60020	Hex Bolt 1/2" - 13 x 1 1/4" (6)	24	60642	Spring Clip		60042	Drum Assembly w/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 1/2" - 13 (2)	28	60662	Cap Plug			

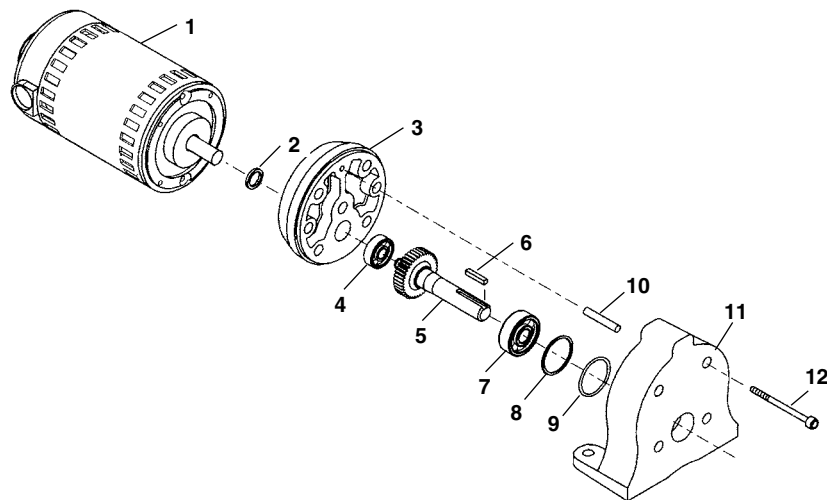
Drum Assembly

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

Ref. No.	Catalog No.	Description
—	61107	Drum Assembly. w/5/8" Pigtail
—	60042	Drum Assembly w/3/4" Pigtail
1	44590	Bolt 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	3/4" Pigtail
	44122	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 5/16" - 18
15	35055	Washer
16	60515	Bolt 5/16" - 18 x 1 1/4"

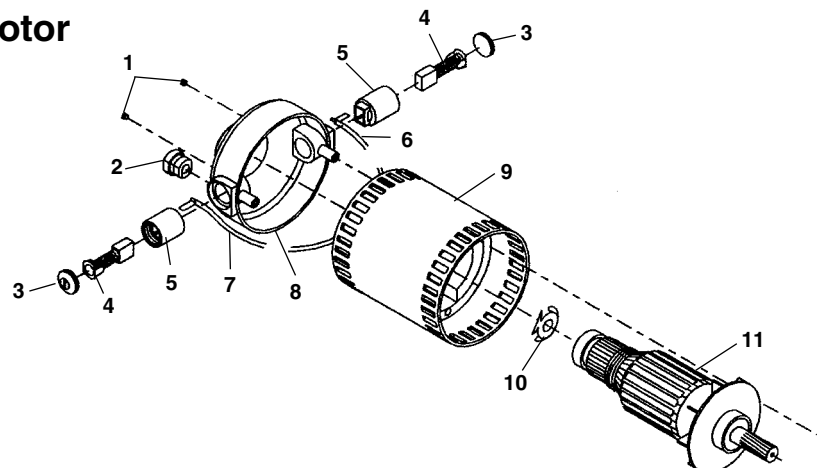


Motor/Gearbox Assembly



Ref. No.	Catalog No.	Description
—	72587	Motor/Gearbox Assembly - 115V
—	72582	Motor/Gearbox Assembly - 230V
1	75622	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 3/16" x 1 5/8"
11	60397	Front Gear Housing
12	60402	Screw #10-32 x 2 3/4"

Motor

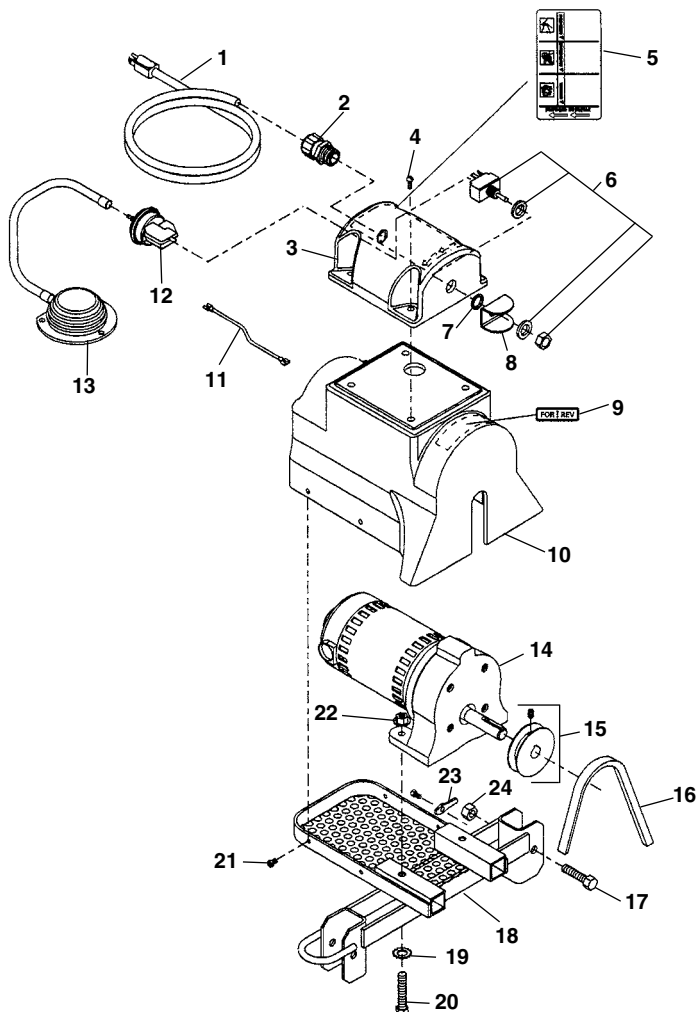


Ref. No.	Catalog No.	Description
—	75622	Motor - 115V
—	75627	Motor - 230V
1	60492	Brush Holder Screw
2	60497	Strain Relief
3	60467	Brush Cap Set
4	72482	Brush Set (115V)
	60472	Brush Set (230V)
5	60482	Brush Holder Set
6	60487	Black Brush Lead
7	60502	Red Brush Lead
8	60522	Rear Housing
9	60507	Field 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

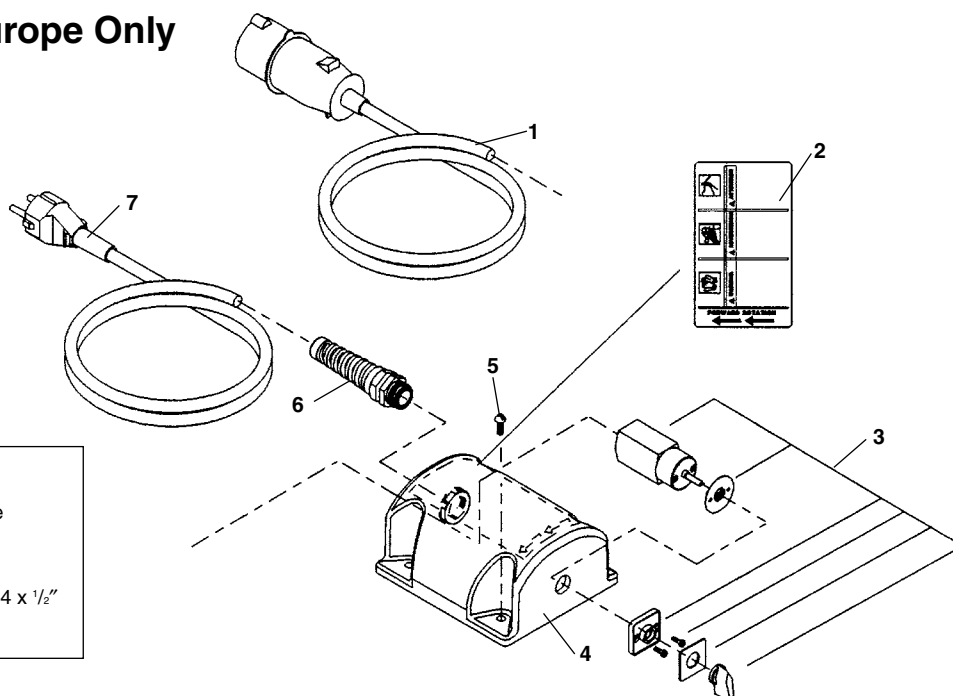
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

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	72587	115V Motor/Gearbox Assembly
	72582	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 1/2"
6	54177	Strain Relief
7	39562	230V Line Cord

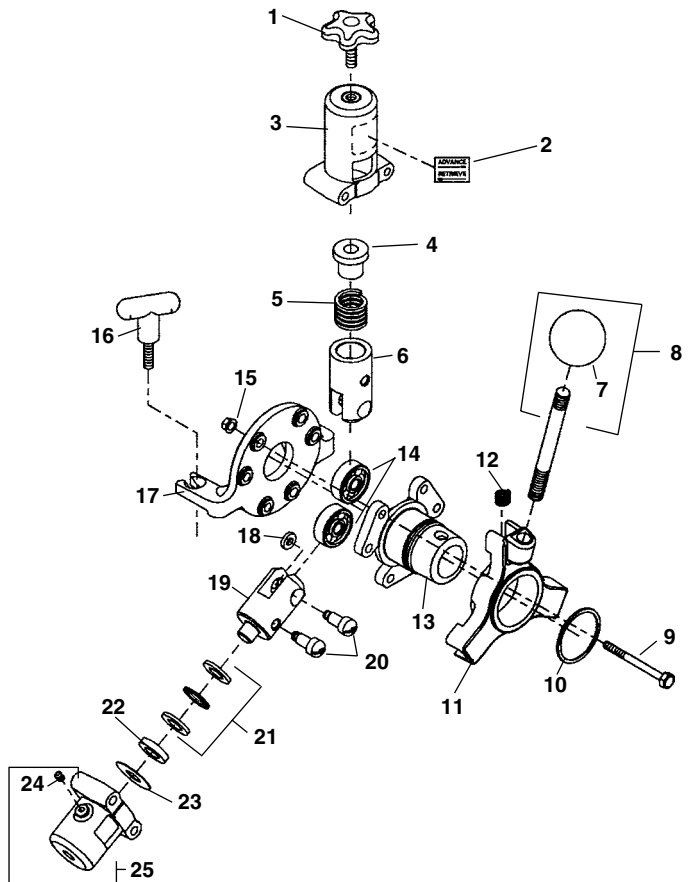


AUTOFEED® Assembly

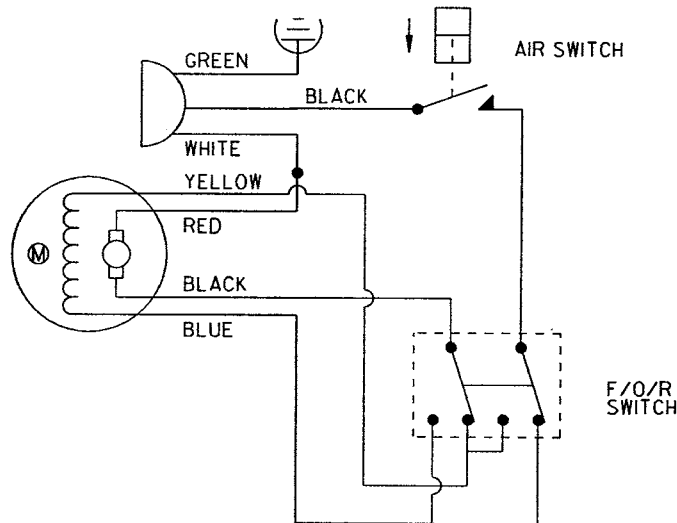
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

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 5/16" - 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 5/16" - 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)

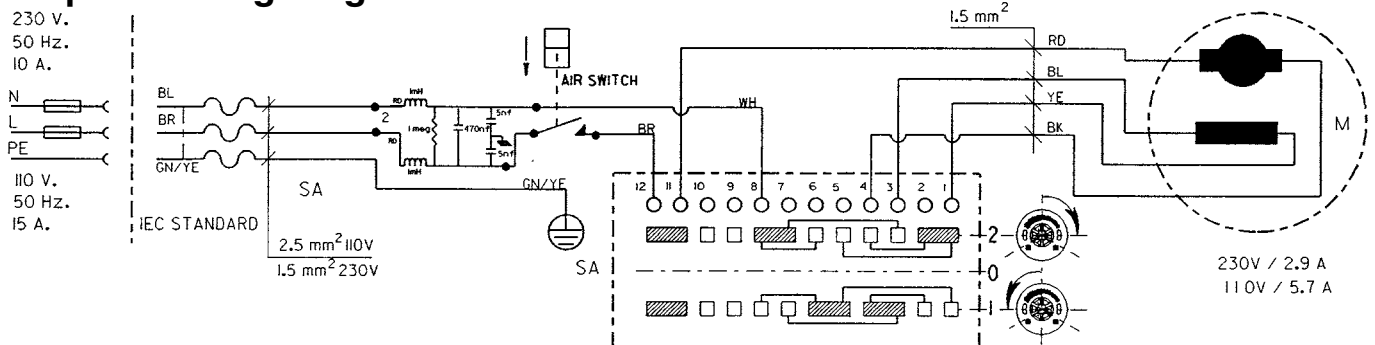
† Service Note: Add the 0.06" spacers (Ref. No. 24) to the stationary roller holders (Ref. No. 25) to use the AUTOFEED® on 5/8" cable.



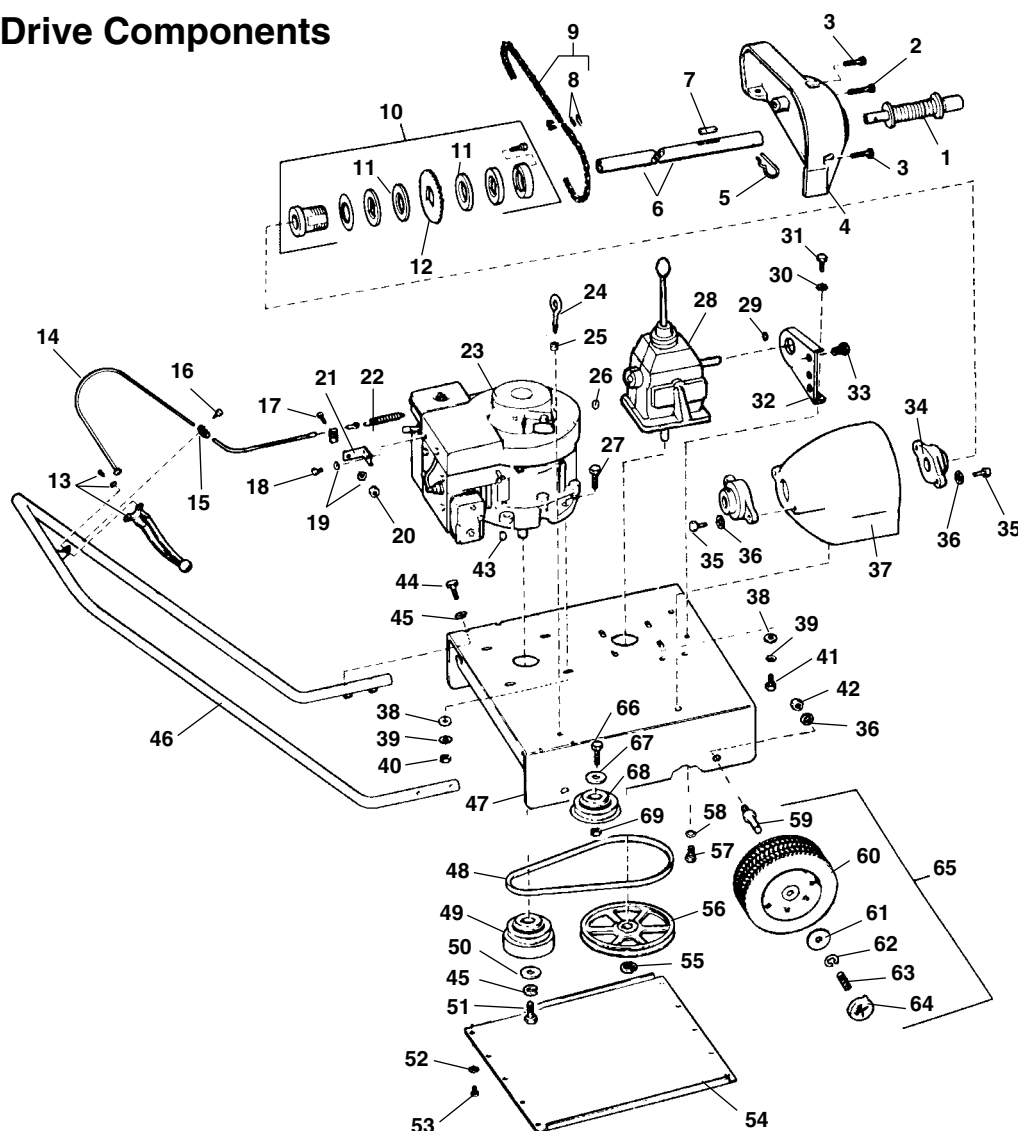
Wiring Diagram



European Wiring Diagram



Cart and Drive Components



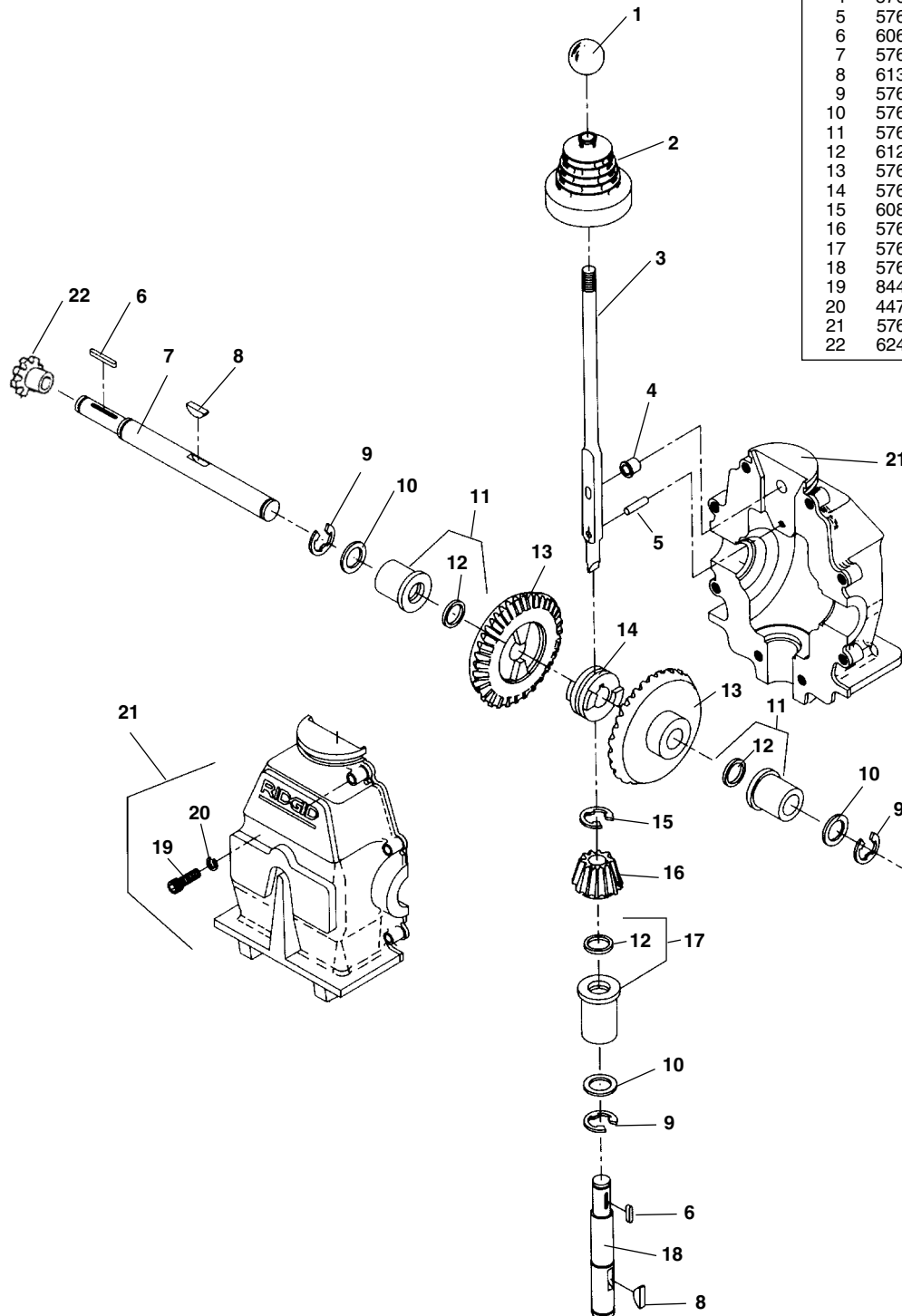
NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.

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 (Incl. Ref. #32, 41, 48)	51	61435	A-3577 Hex Head Bolt
5	61400	A-3567 Drive Pin	29	60860	A-297 Retaining Ring	52	61310	A-3439 Washer (10)
6	62180	B-3548 Drive Shaft	30	61440	A-3591 Lock Washer	53	60000	A-2258 Screw (10)
7	61425	A-3572 Key	31	60265	A-2441 Screw	54	62175	B-3547 Cover
8	60625	A-2643 Master Link	32	62425	Chain Guard	55	62647	A-505 Retaining Ring
9	61405	A-3568 Chain (Incl. Ref. #8)	33	61110	A-3247 Self-Tapping Screw (2)	56	61385	A-3564 Pulley
10	61415	A-3570 Torque Limiter	34	61375	A-3562 Main Bearing w/Set Screw (2)	57	59785	A-210 Bolt (4)
11	61420	A-3571 Fiber Disc (2)				58	61450	A-3593 Lock Washer (4)
12	61410	A-3569 Sprocket	35	60020	A-2269 Bolt (4)	59	43837	A-3546 Axle (4)
13	61365	A-3560 Throttle Handle	36	60090	A-2292 Lock Washer (8)	60	62420	C-3556 Wheel (4)
14	61370	A-3561 Throttle Cable	37	62485	D-3543 Body	61	60995	A-3039 Washer (4)
15	61430	A-3574 Clamp	38	60060	A-2284 Washer (8)	62	60050	A-2281 Retaining Ring (4)
16	61500	A-427 Self-Tapping Screw	39	61445	A-3592 Lock Washer (8)	63	61000	A-3041 Spring (4)
17	79965	E-1667 Screw	40	60230	A-2395 Nut (4)	64	59700	A-1881 Hub Cap (4)
18	—	*Bolt	41	61462	A-3251 Hex Head Bolt (4)	65	62430	C-3611 Wheel Assembly (Incl. Ref. #59-64)
19	61310	A-3439 Washer (2)	42	61455	A-3612 Nut (4)	—	84690	A-4558 Torque Testing Tool (not shown)
20	60200	A-2382 Nut	43	61395	A-3566 Key	66	23617	3/8" - 13 x 2" Carriage Bolt
21	61350	A-3554 Bracket	44	76870	A-3672 Screw (4)	67	59970	3/8" Flat Washer
22	59545	A-132 Spring	45	60085	A-2290 Lock Washer (5)	68	66962	Idler Pulley
23	66977	Engine/6HP	46	62415	C-3552 Handle Assembly	69	43947	3/8" Lock Nut
24	59225	A-899 Coupling Pin Key	47	62495	D-3545 Base			
25	61460	A-3613 Grommet						

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

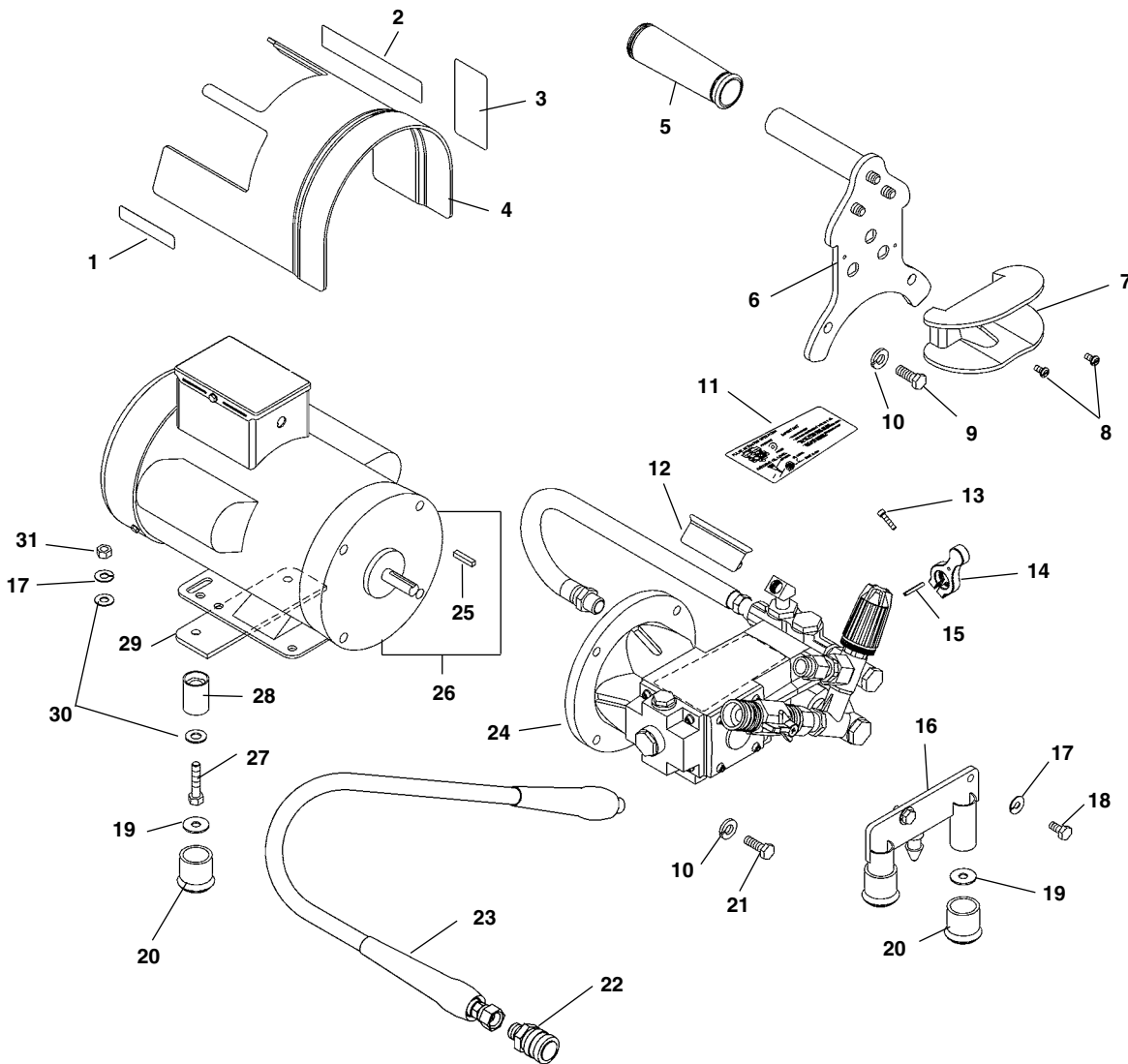
Transmission

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



Ref. No.	Catalog No.	Description
—	57697	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

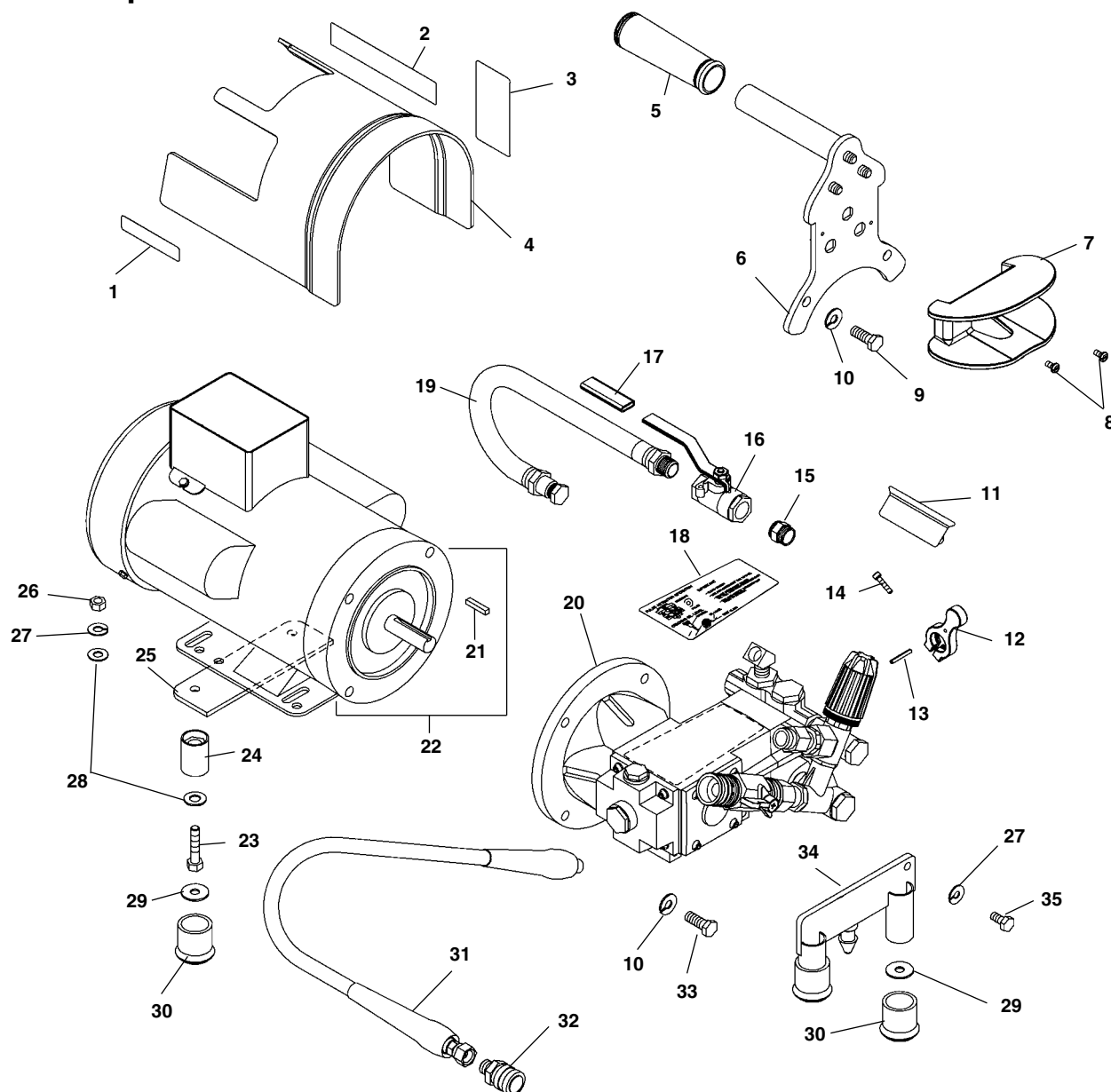
Main Components - Single Pulse Model



**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



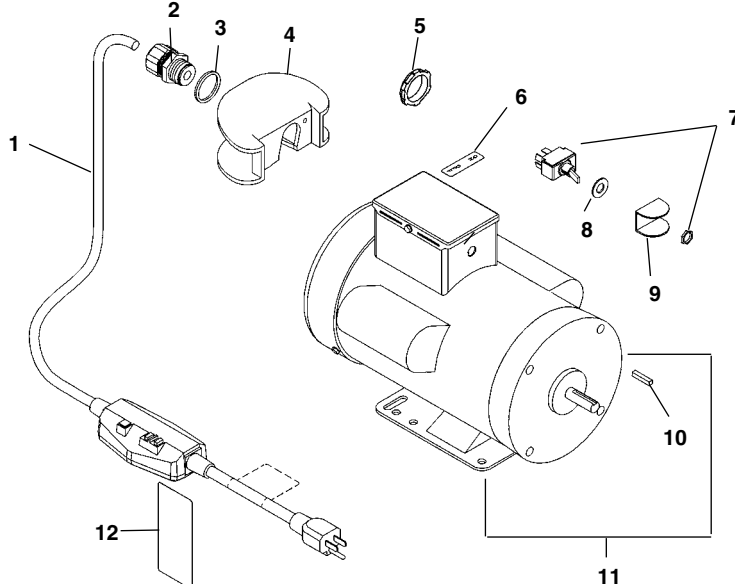
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

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, 1/16" x 3/16" x 1"
4	63917	Motor Shroud	22	63892	Motor, 115V, 1.5 HP
5	60827	Hand Grip	23	43847	Hex Screw, 5/16" - 18 x 1 1/2" (2)
6	63932	Handle	24	63947	Rear Foot
7	63937	Cord Wrap	25	63952	Rear Bracket
8	16417	Screw, #10 - 32 x 3/8" Pan Head (2)	26	60230	Hex Nut, 5/16" - 18 (2)
9	60380	Hex Screw, 3/8" - 16 x 1 1/4" (2)	27	60080	Lock Washer, 5/16" (2)
10	60085	Lock Washer, 3/8" (4)	28	60060	Flat Washer, 5/16" (2)
11	63902	Pressure Gauge	29	60847	Flat Washer, 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 5/8"	32	48117	Female Quick Connect, 1/4" NPT Male
15	63912	Hex Nipple, 3/8" NPT	33	85915	Hex Screw, 3/8" - 16 x 3/4" (2)
16	48127	Pulse Control Valve	34	63942	Front Foot
17	64272	Pulse Valve Cover	35	61130	Hex Screw, 5/16" - 18 x 3/4" (2)
18	63967	Decal, Pulse Instruction			

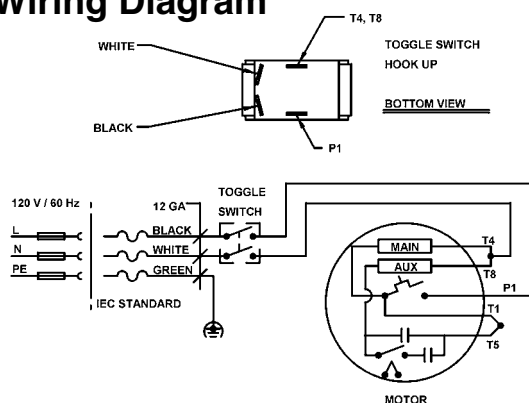
Electrical Components

**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, 1/8" x 3/16" x 1"
11	63892	Motor, 115V, 1.5 HP
12	63977	Warning Tag, GFCI

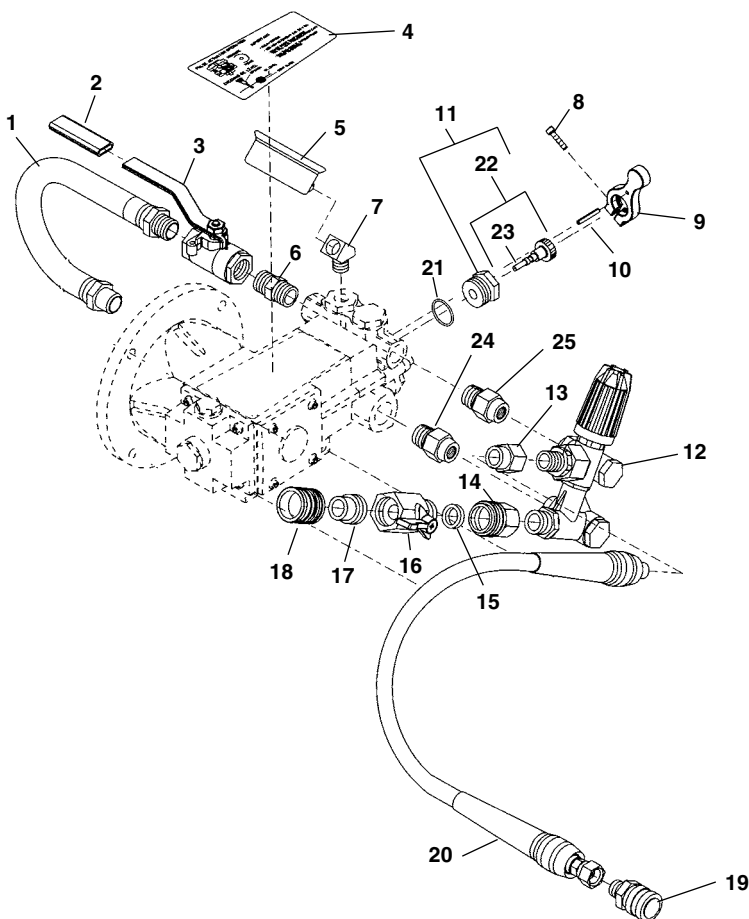


Wiring Diagram

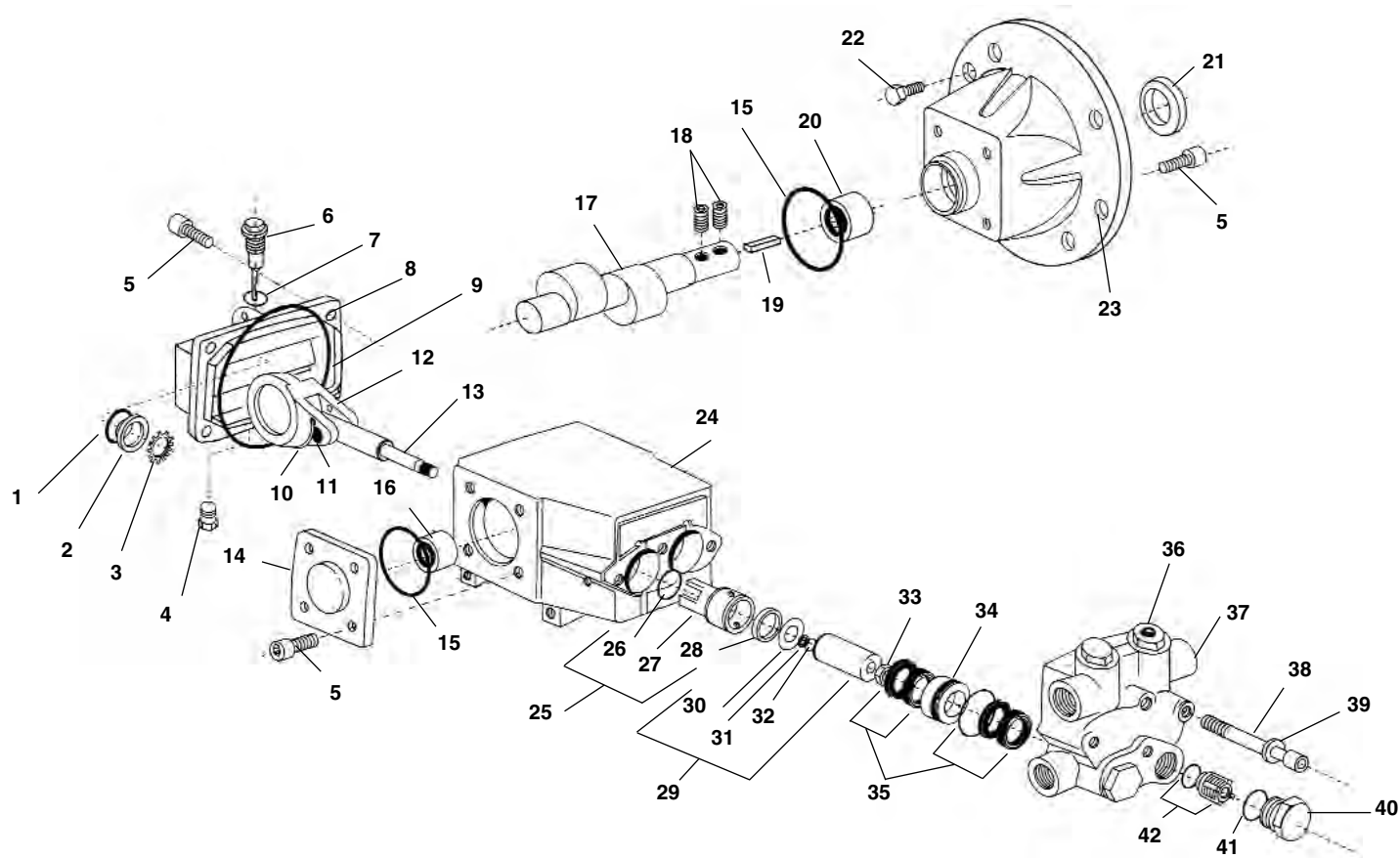


Flow Control System

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, 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



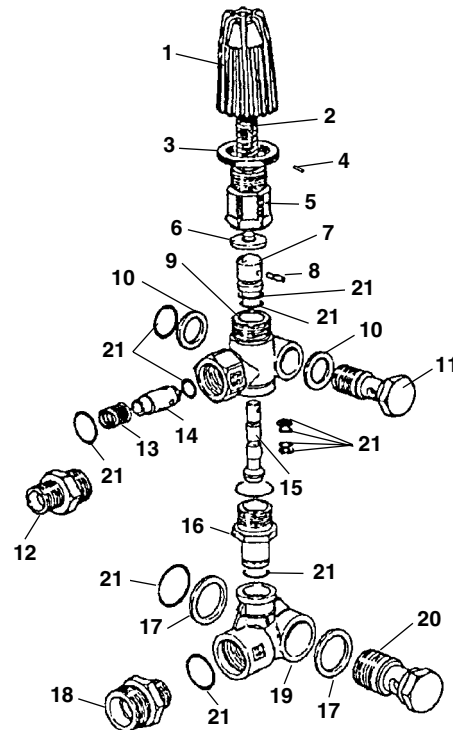
**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

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	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)

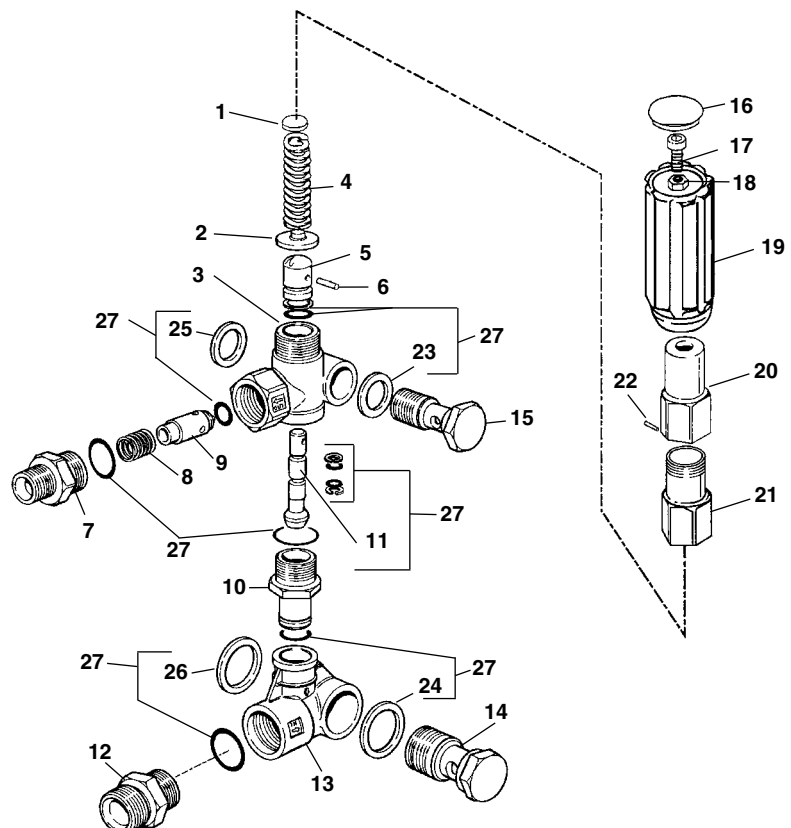
**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

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

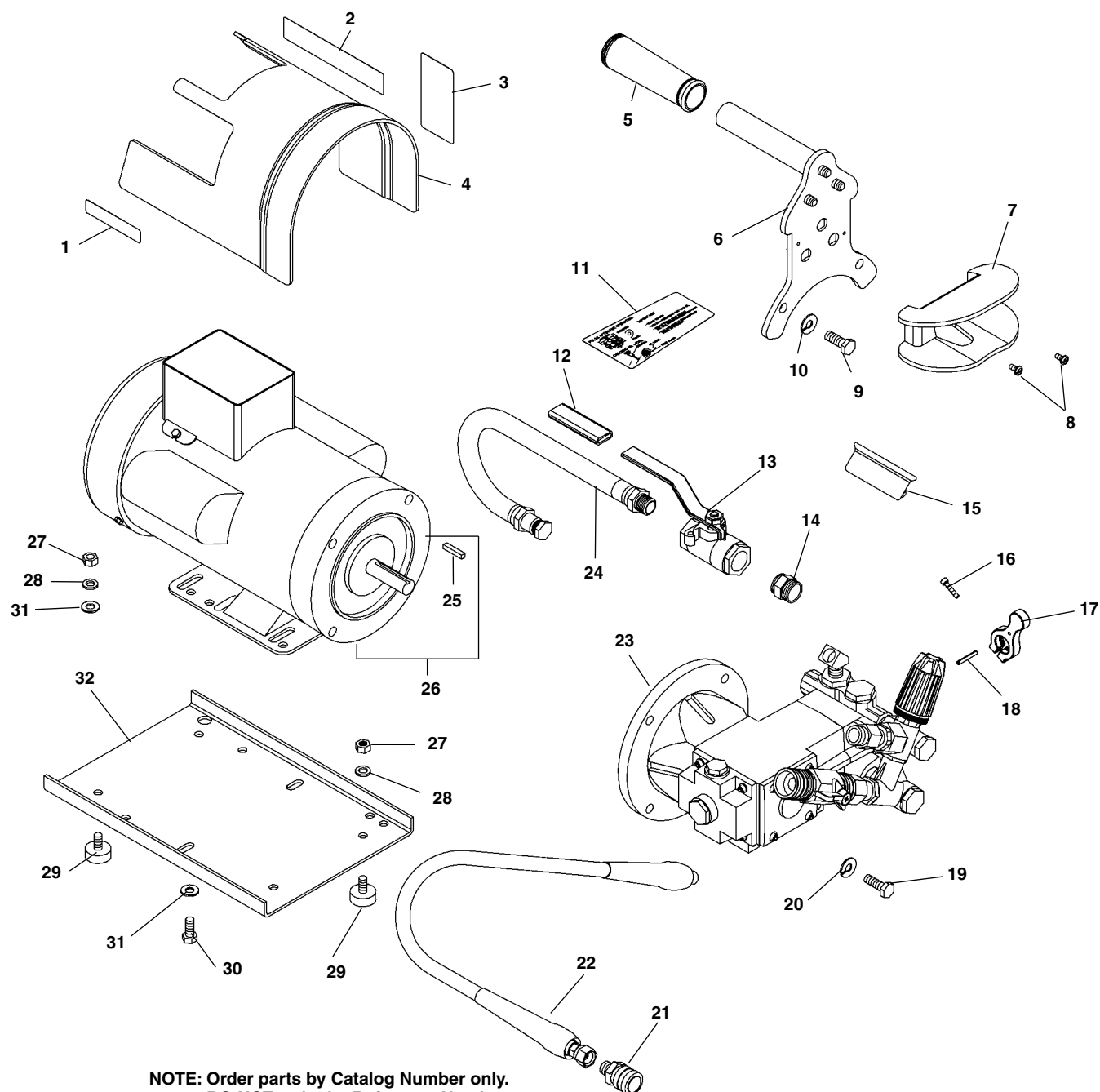


Unloader Valve - (Black Knob)

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



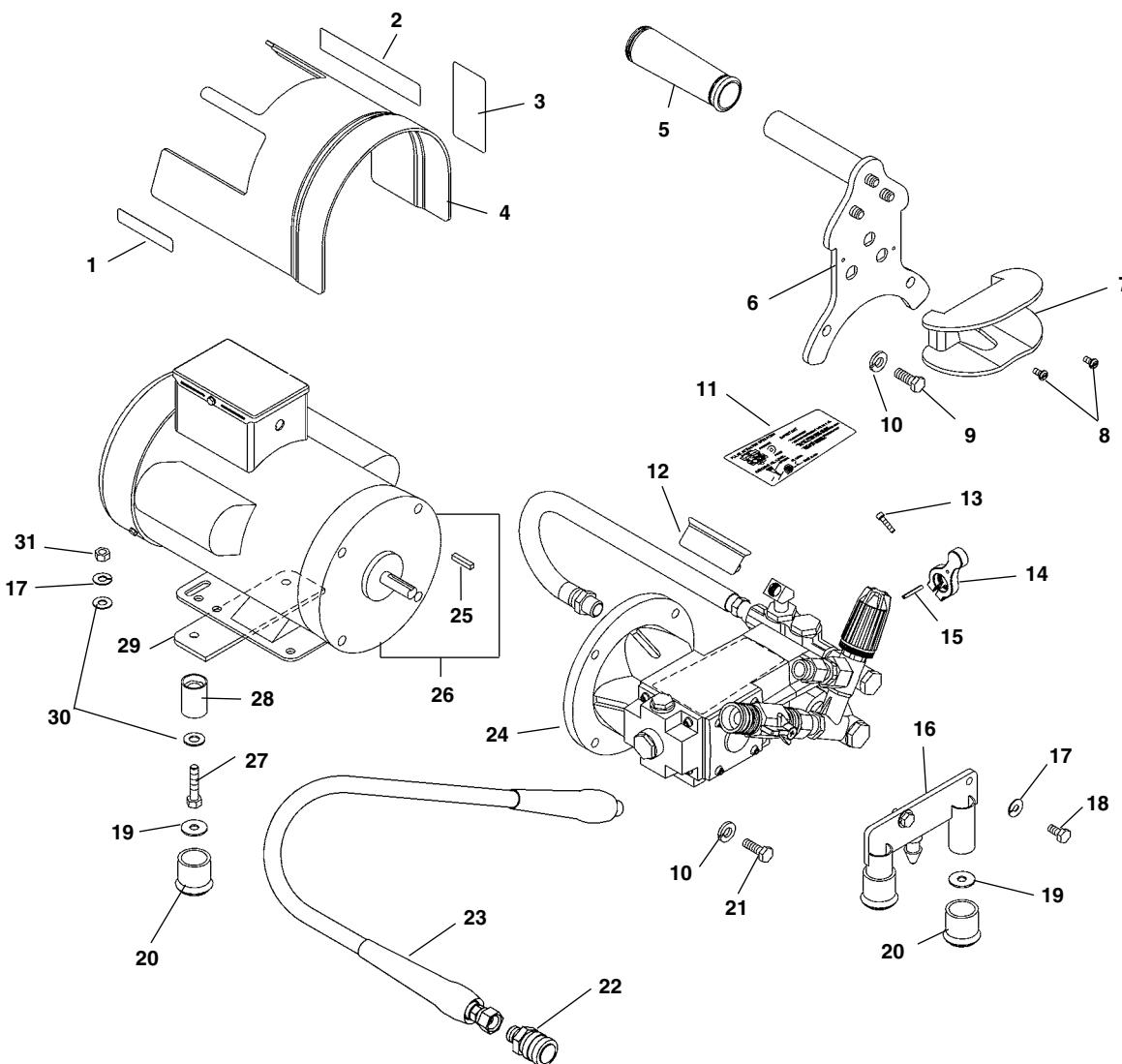
Main Components - 120V 60Hz



**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

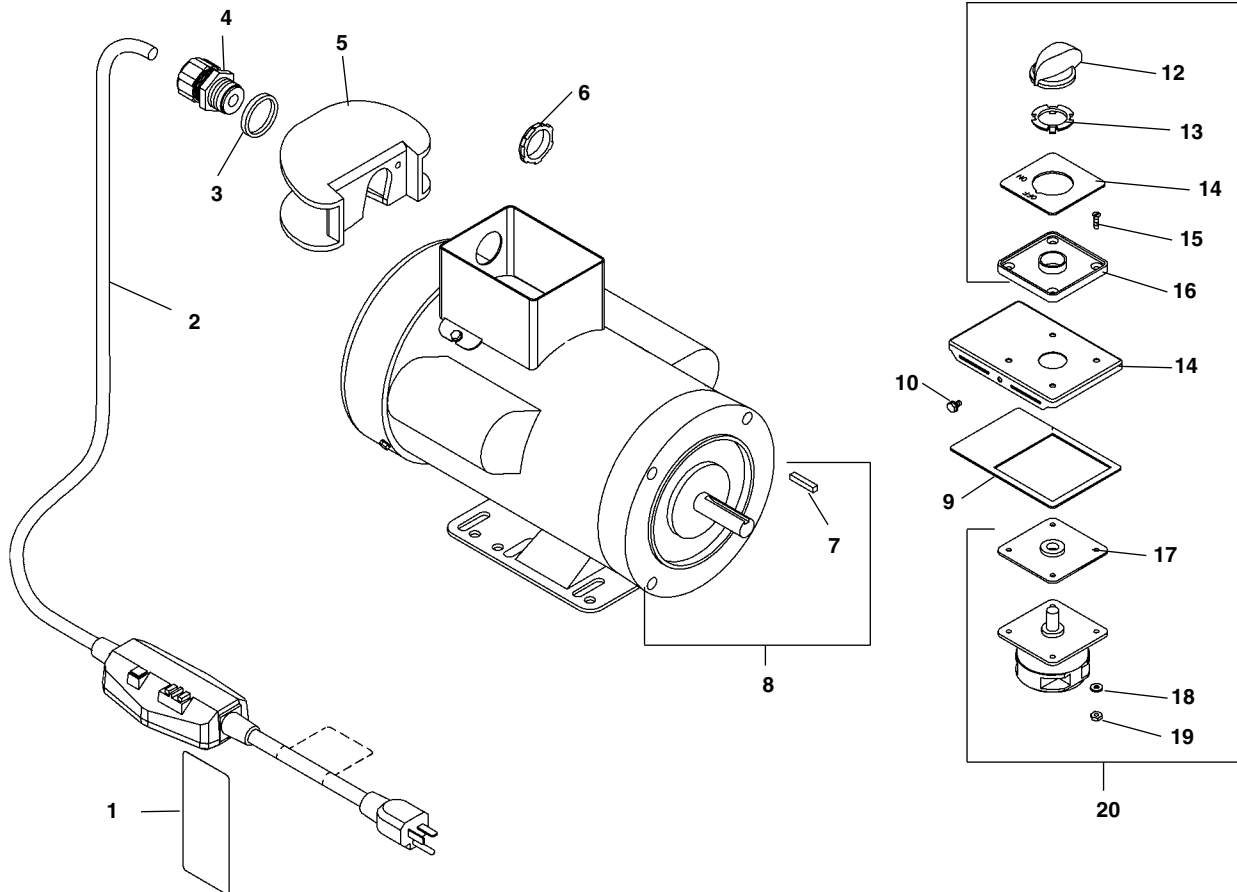
Main Components - 220V 50Hz Export



**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			

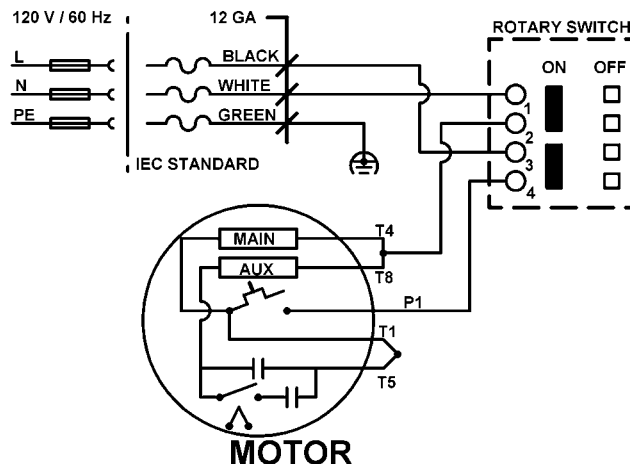
Electrical 120V 60 Hz



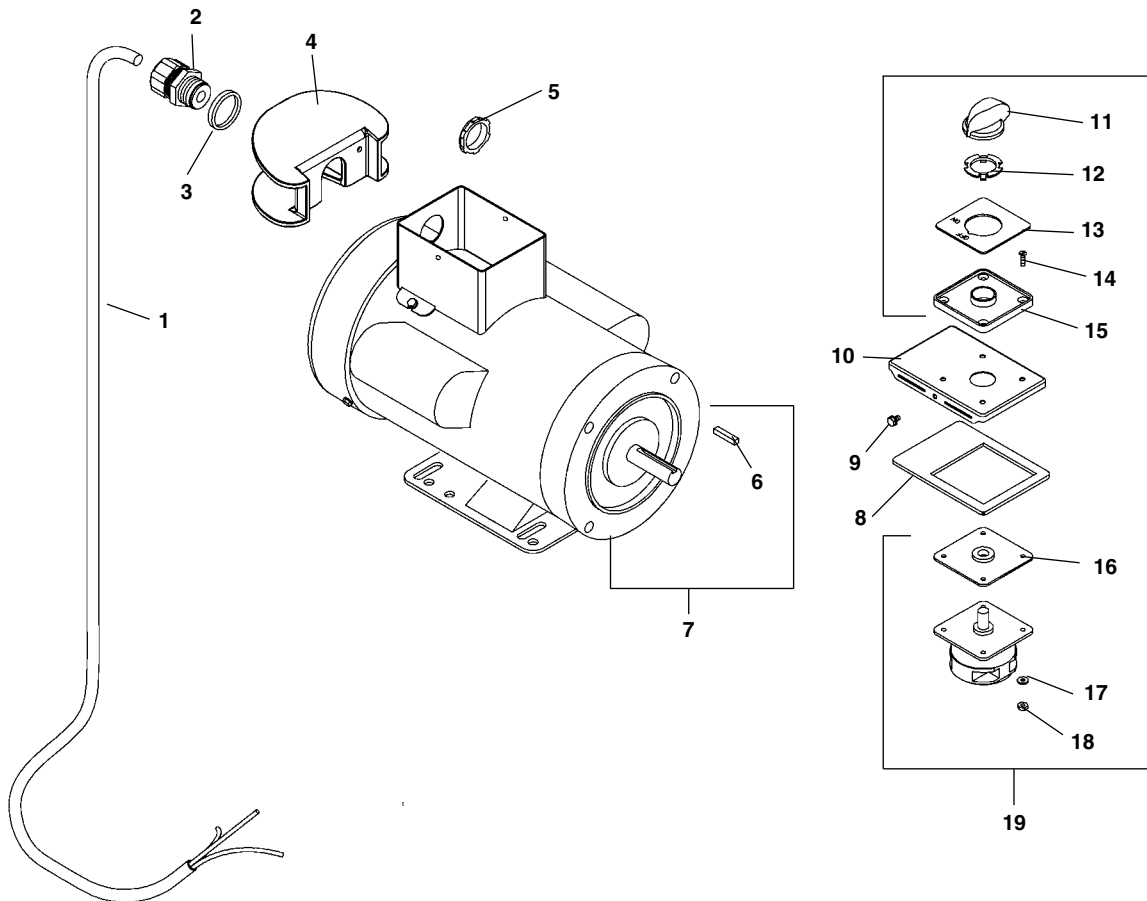
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

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



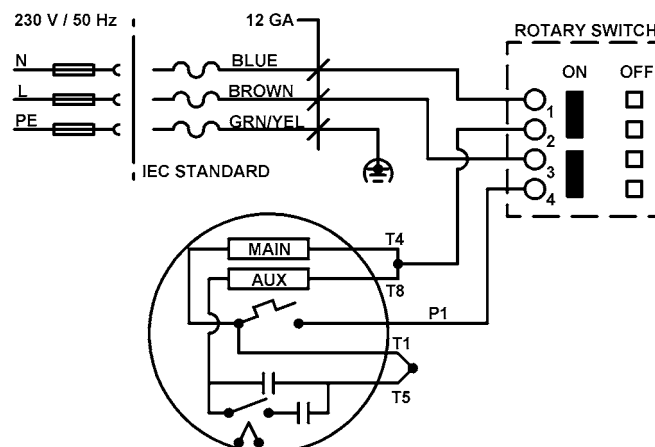
Electrical 220V 50 Hz Export



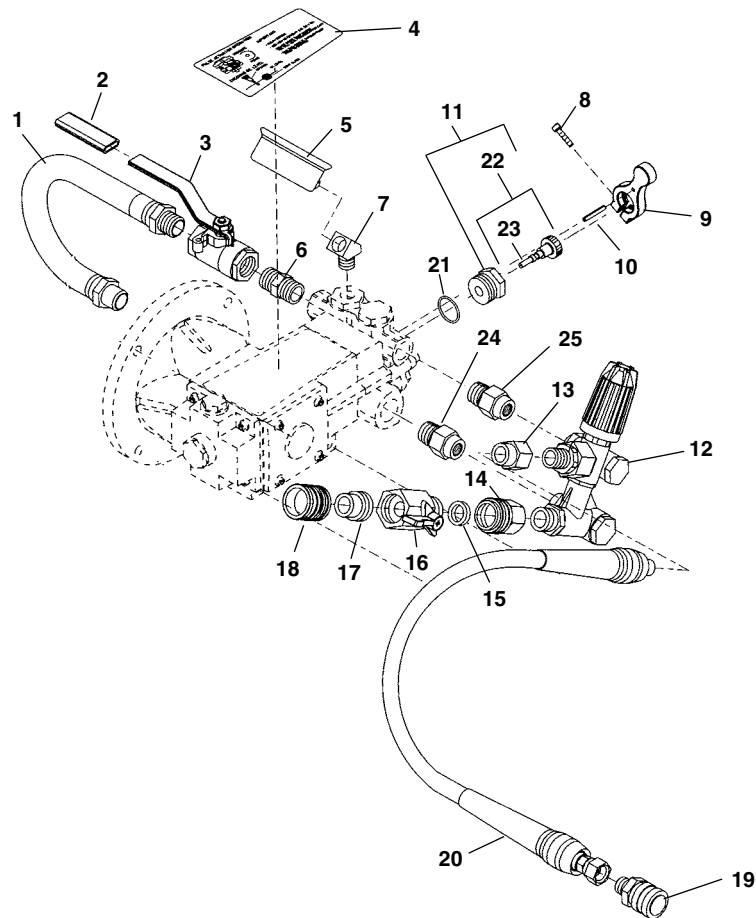
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

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

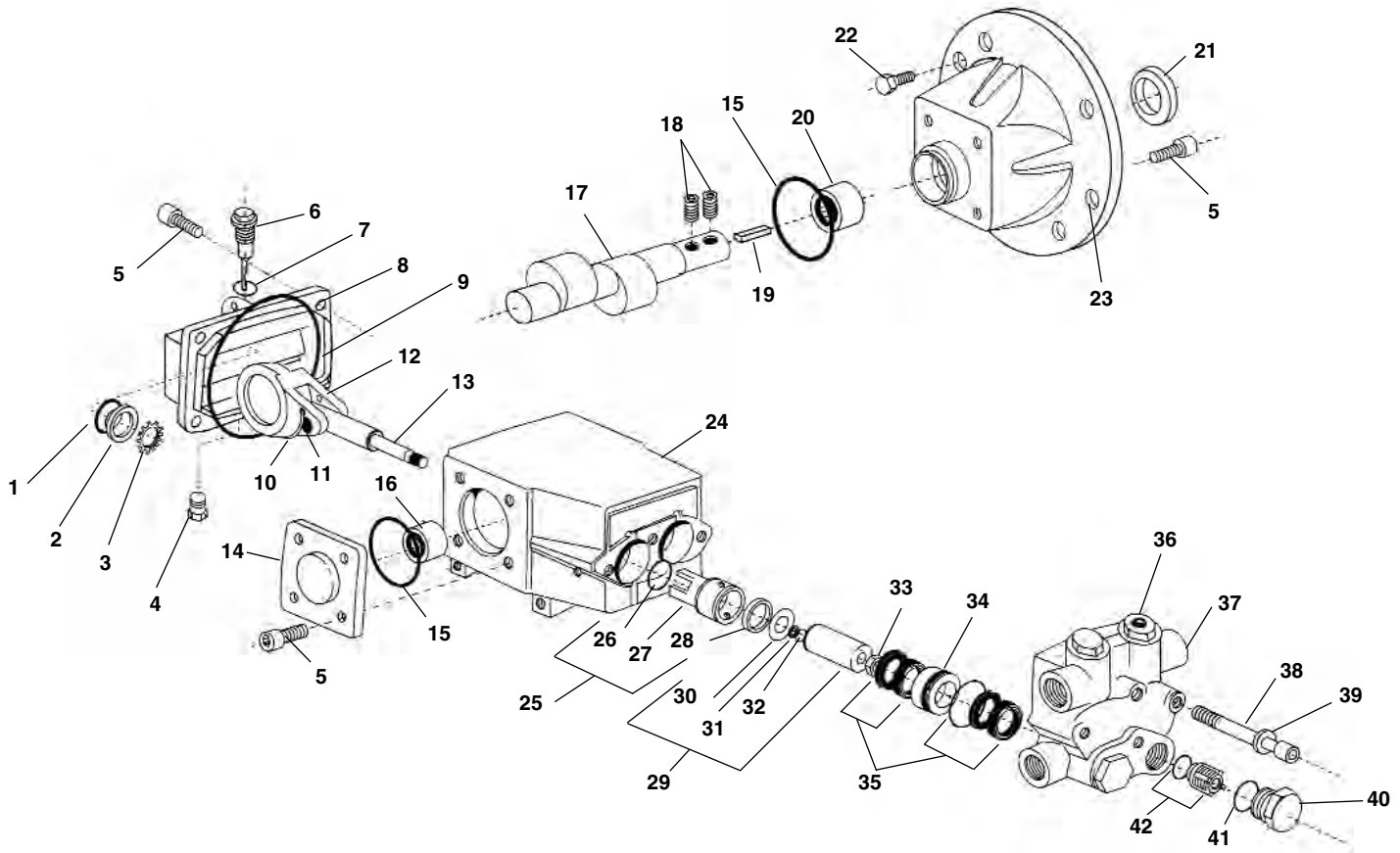


Flow Control System



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, $\frac{3}{8}$ " 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



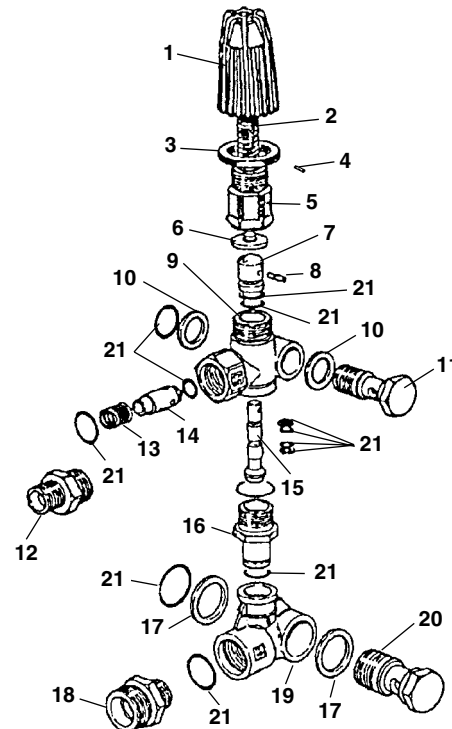
**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

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	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)

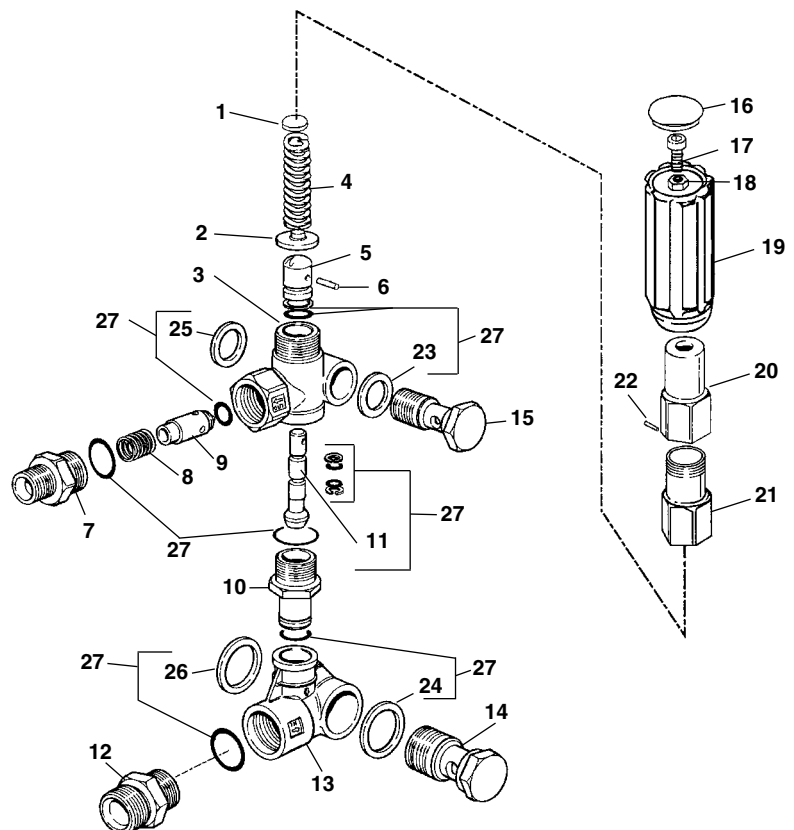
NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.

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

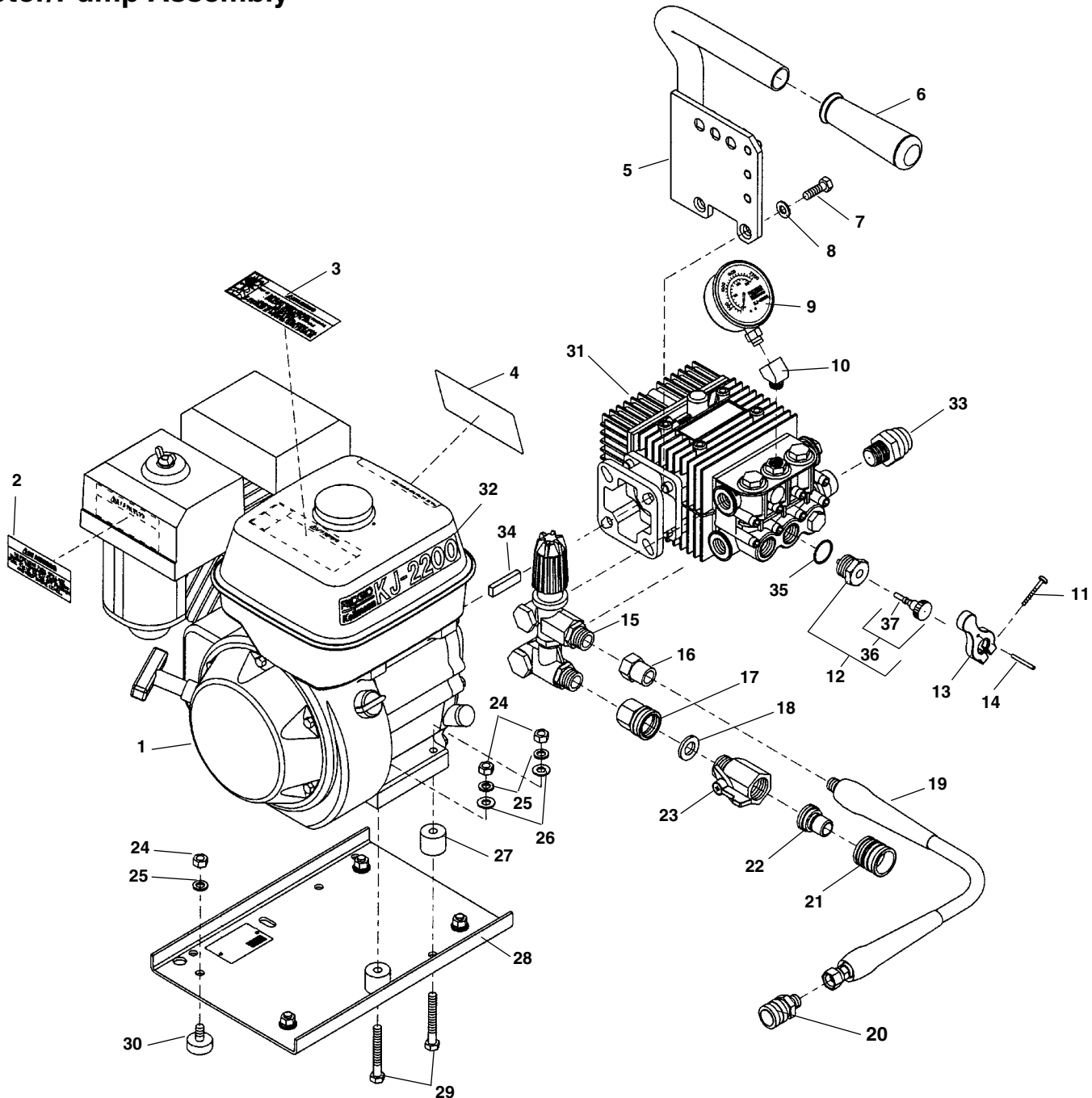


Unloader Valve - (Black Knob)

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



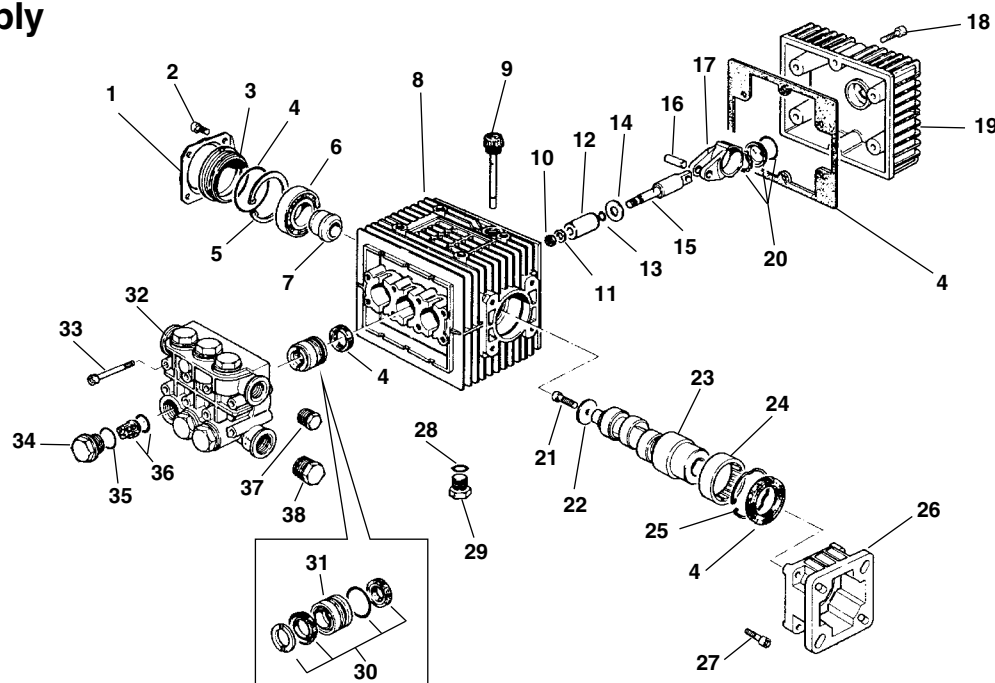
Motor/Pump Assembly



**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

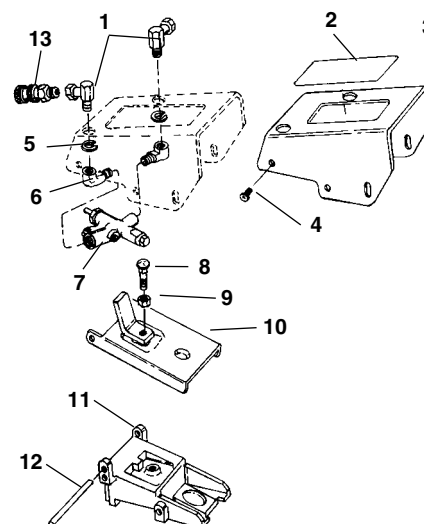


**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

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

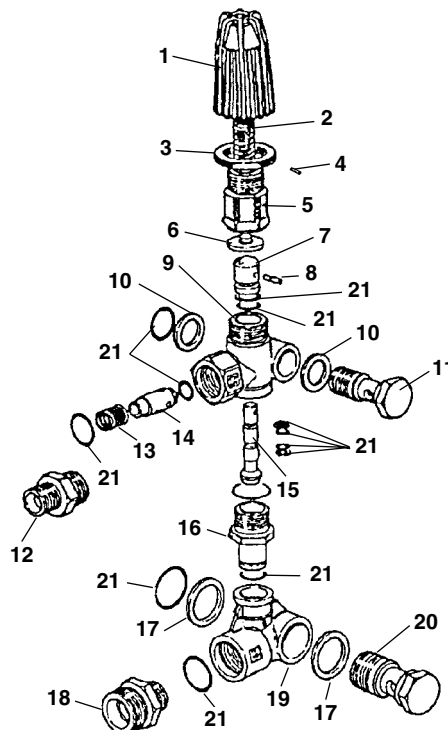
Ref. No.	Catalog No.	Description
—	48157	Foot Valve Complete, FV-1
1	49787	Elbow w/Swivel, 1/4" NPT (2)
2	49777	Decal, Model No.
3	49772	Cover
4	36787	Screw, Self Tapping, #10 (4)
5	49792	Lock Washer 9/16" (2)
6	49797	Street EL, 1/4" NPT(2)
7	49782	Valve Assembly
8	49802	Carriage Bolt, 1/4" NPT
9	47297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



Unloader Valve - Early Style (Red Knob)

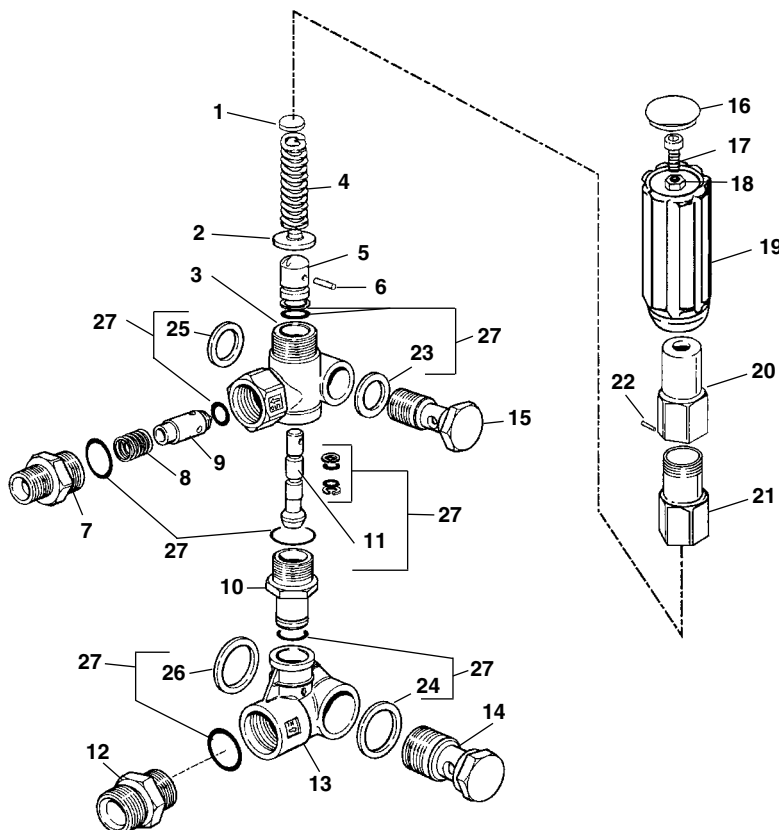
**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

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

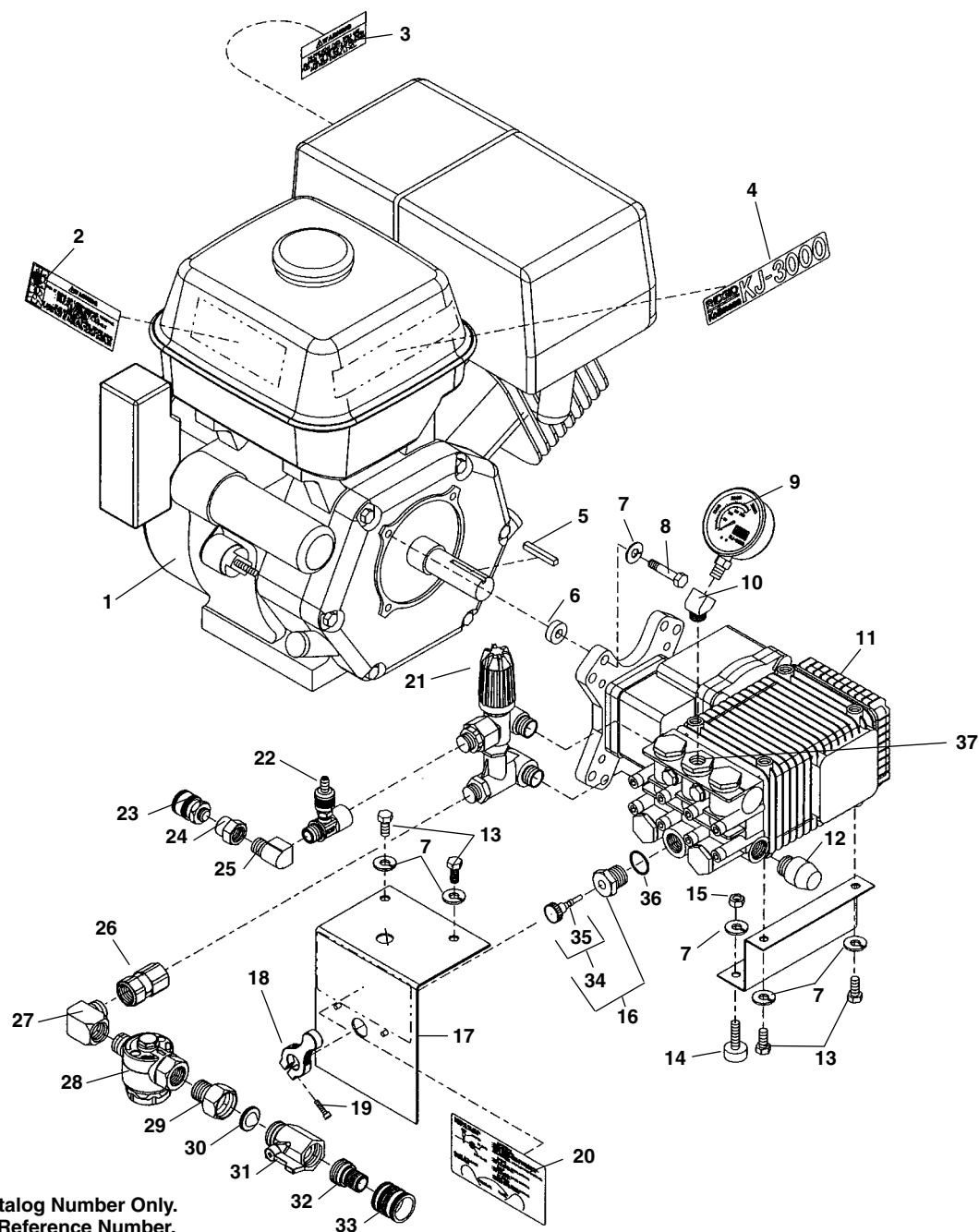


Unloader Valve - (Black Knob)

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 5/16" - 18 - 3/4"
18	61115	Hex Nut 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



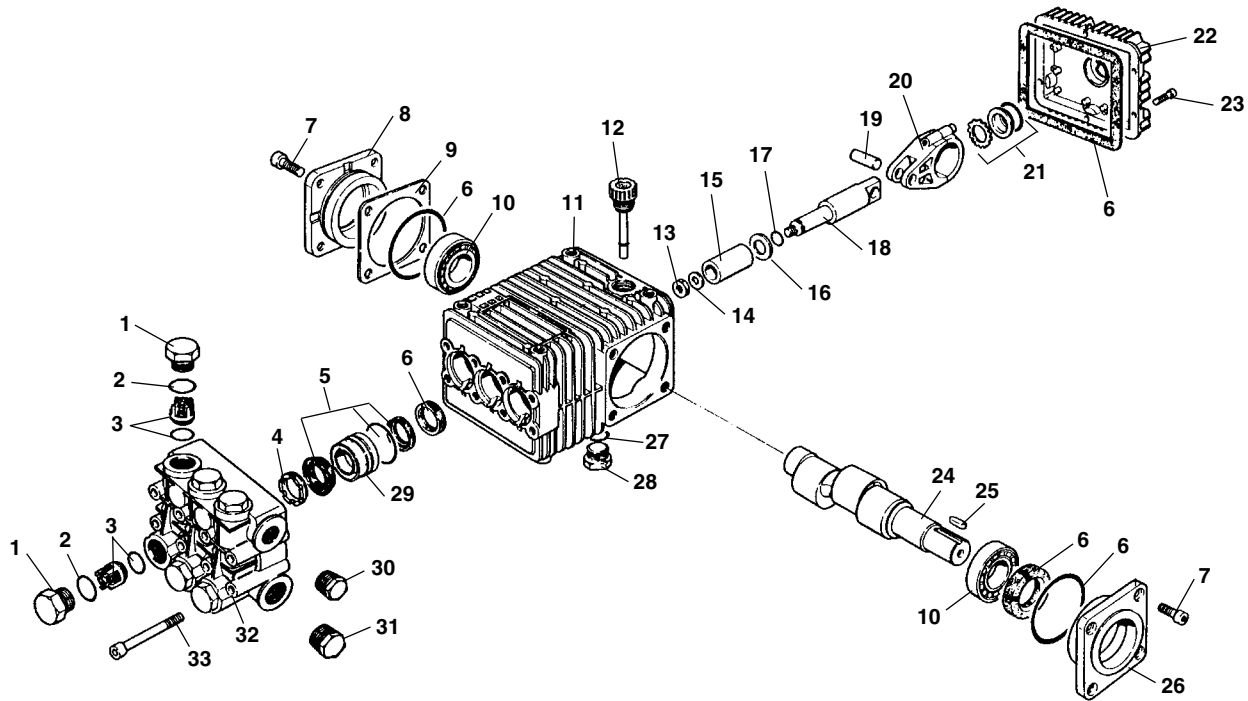
Motor/Pump Assembly



**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, 1/4" 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 5/8"	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	37	95787	

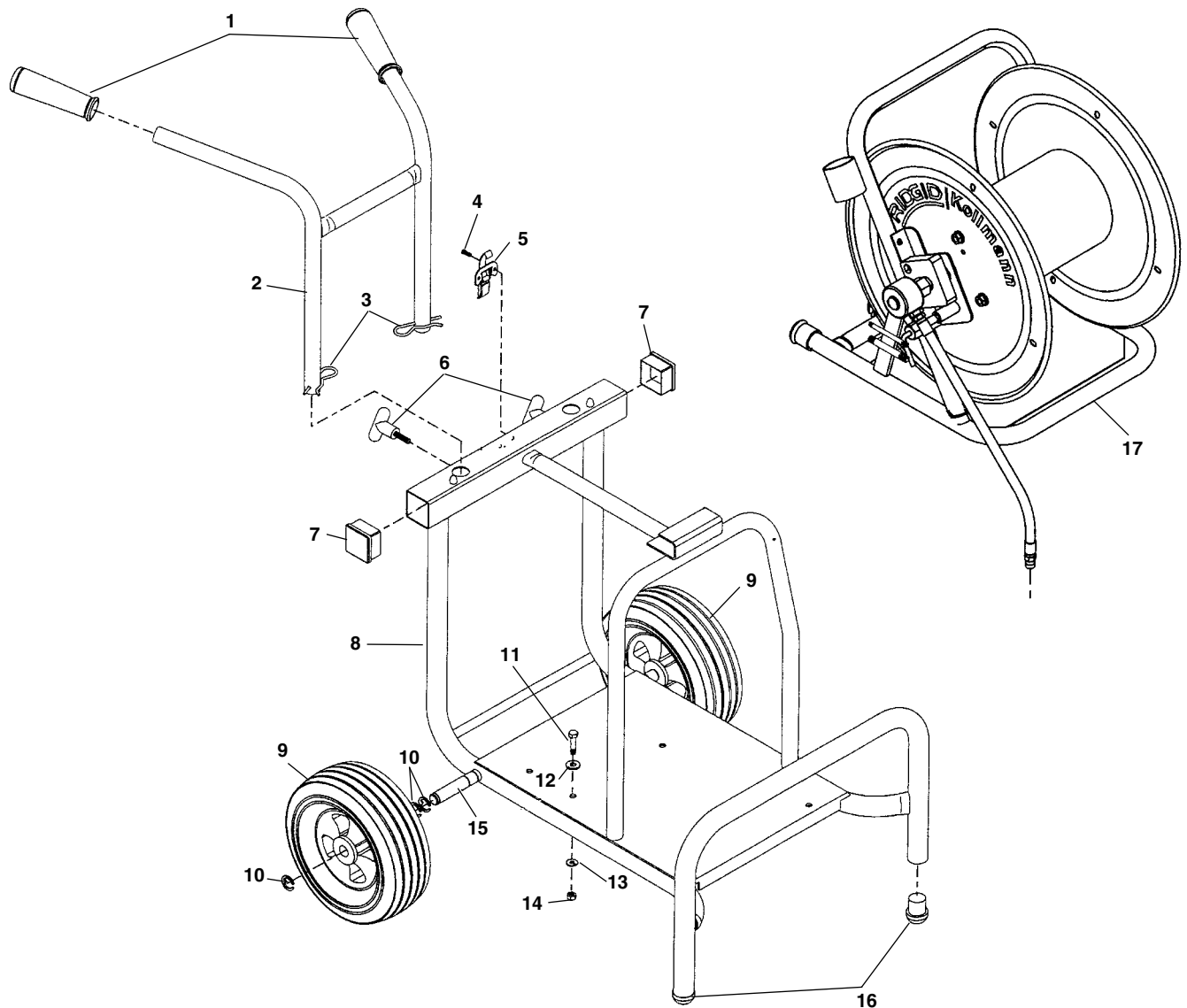
Pump Assembly



**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						

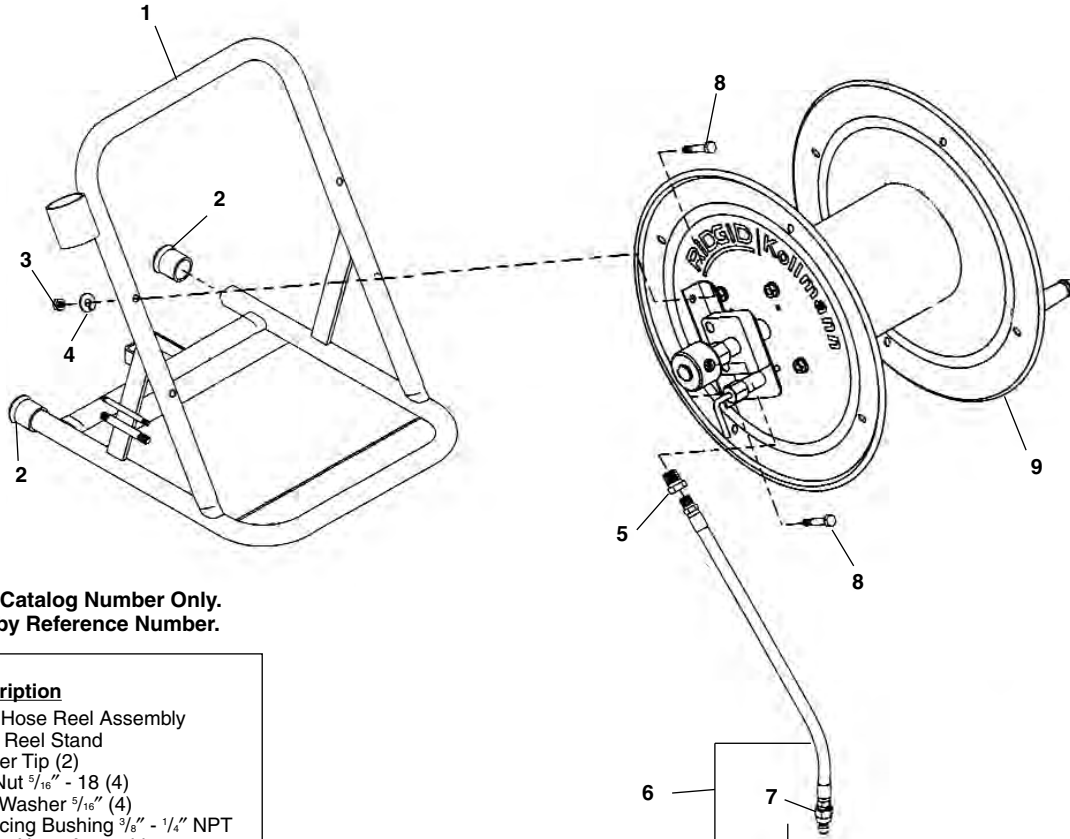
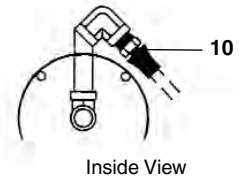
Cart with Hose Reel



**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

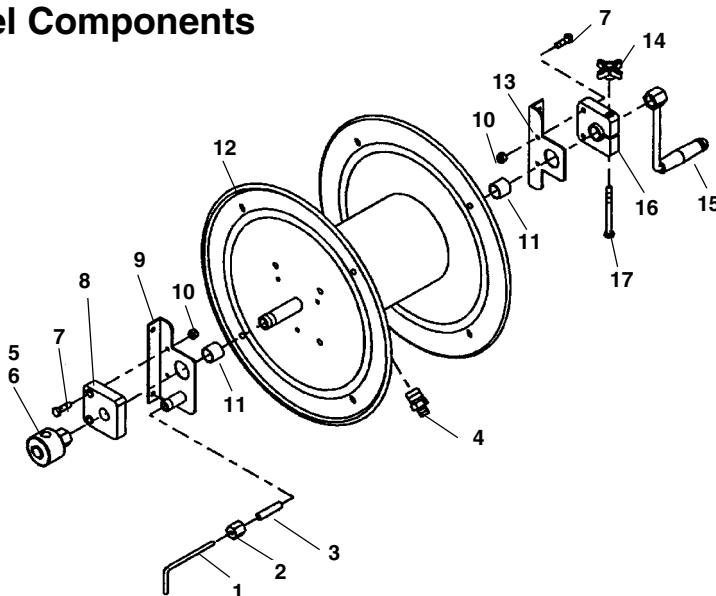
H-38 Reel Assembly



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

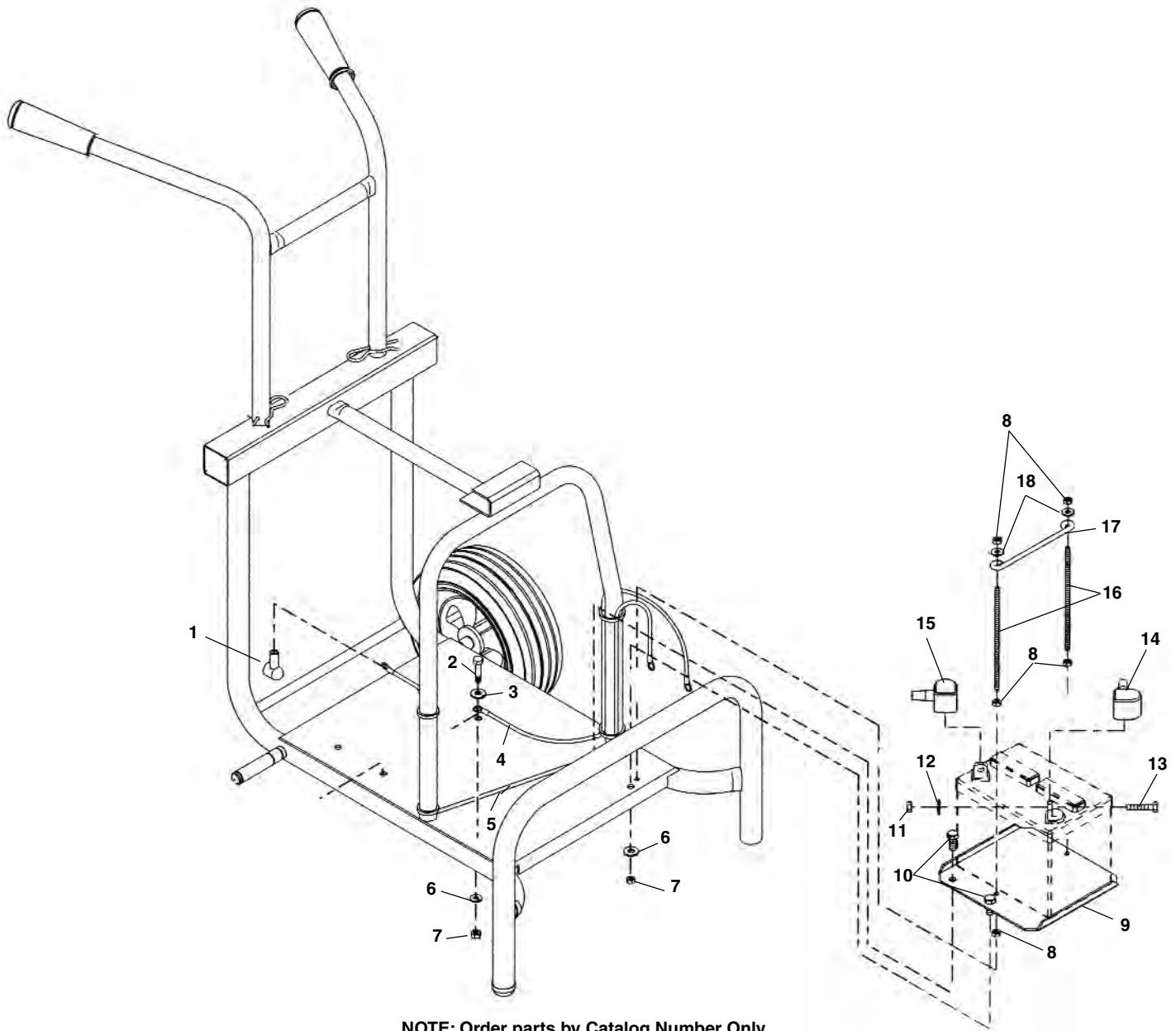
Ref. No.	Catalog No.	Description
—	64862	H-38 Hose Reel Assembly
1	66022	Hose Reel Stand
2	37962	Rubber Tip (2)
3	60230	Hex Nut $\frac{5}{16}$ " - 18 (4)
4	60080	Lock Washer $\frac{5}{16}$ " (4)
5	48152	Reducing Bushing $\frac{3}{8}$ " - $\frac{1}{4}$ " NPT
6	66047	Output Hose Assembly
7	48002	Quick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

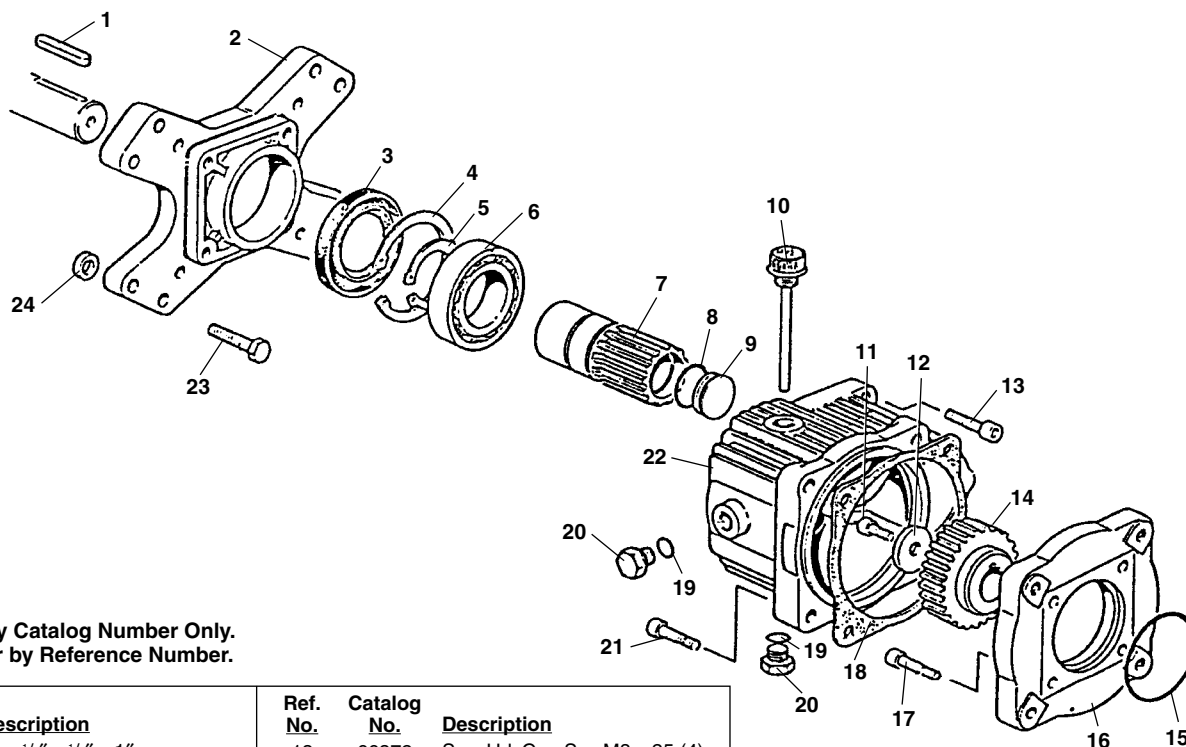
Electric Start Components



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 $\frac{3}{16}$ " (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

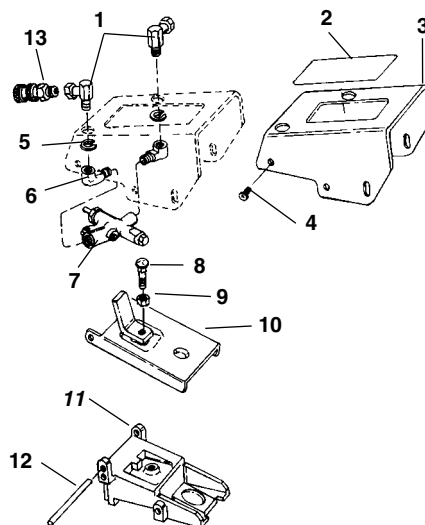


**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	66107	Key, 1/4" x 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, 3/8" - 16 x 1 1/4" (4)
12	66367	Washer	24	66112	Spacer, Gearbox Mount (4)

FV-1 Foot Valve

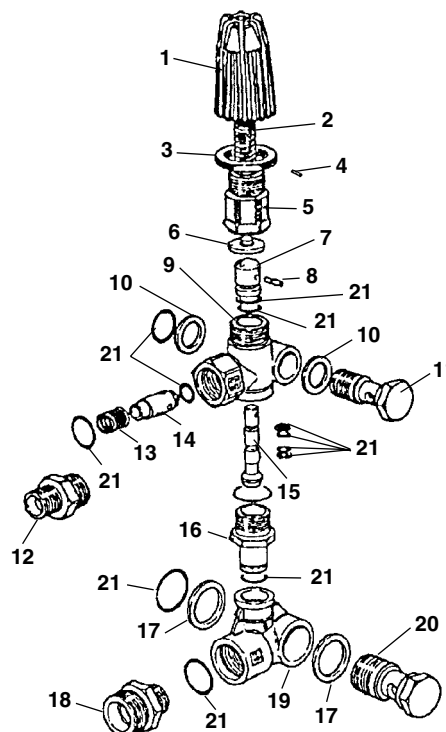
Ref. No.	Catalog No.	Description
—	48157	Foot Valve Complete, FV-1
1	49787	Elbow w/Swivel, 1/4" NPT (2)
2	49777	Decal, Model No.
3	49772	Cover
4	36787	Screw, Self Tapping, #10 (4)
5	49792	Lock Washer 9/16" (2)
6	49797	Street EL, 1/4" NPT (2)
7	49782	Valve Assembly
8	49802	Carriage Bolt, 1/4" NPT
9	47297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



Unloader Valve - Early Style (Red Knob)

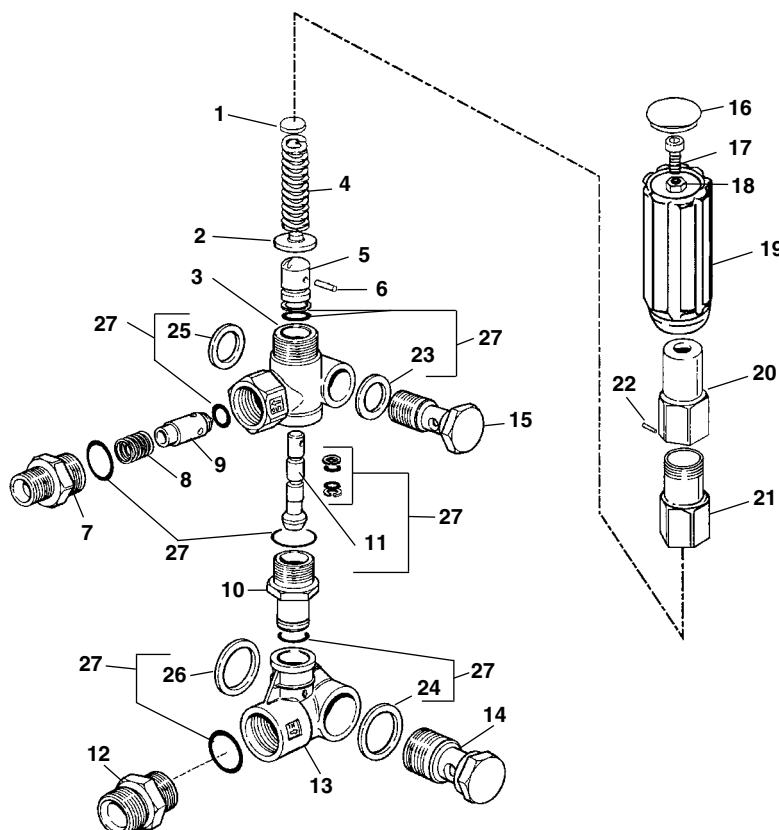
**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

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

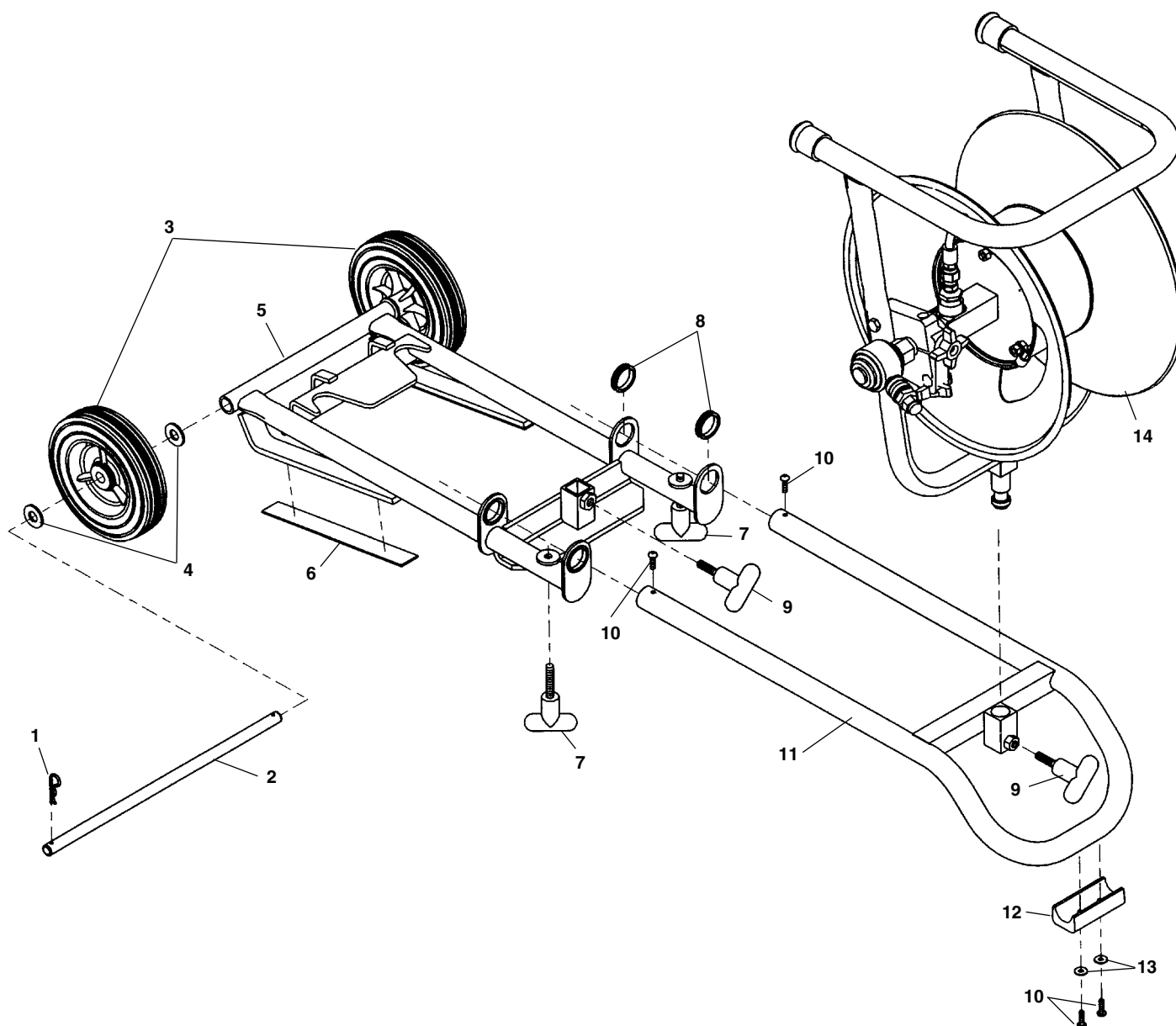


Unloader Valve - (Black Knob)

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



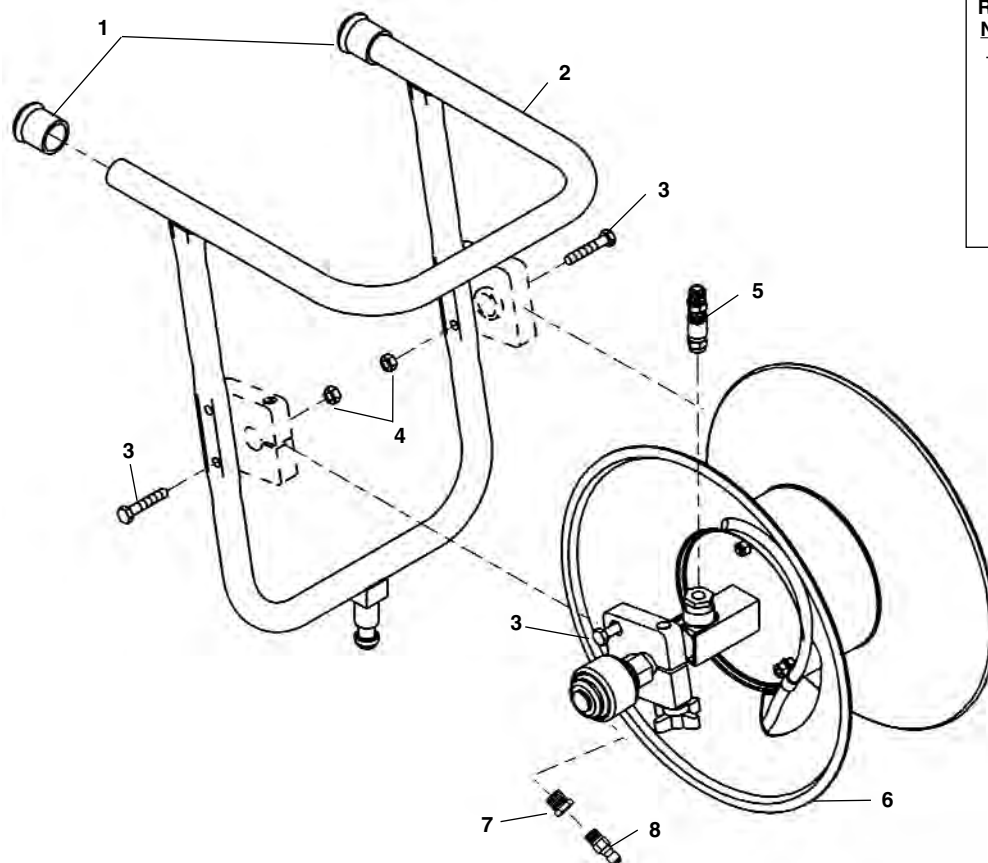
**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

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

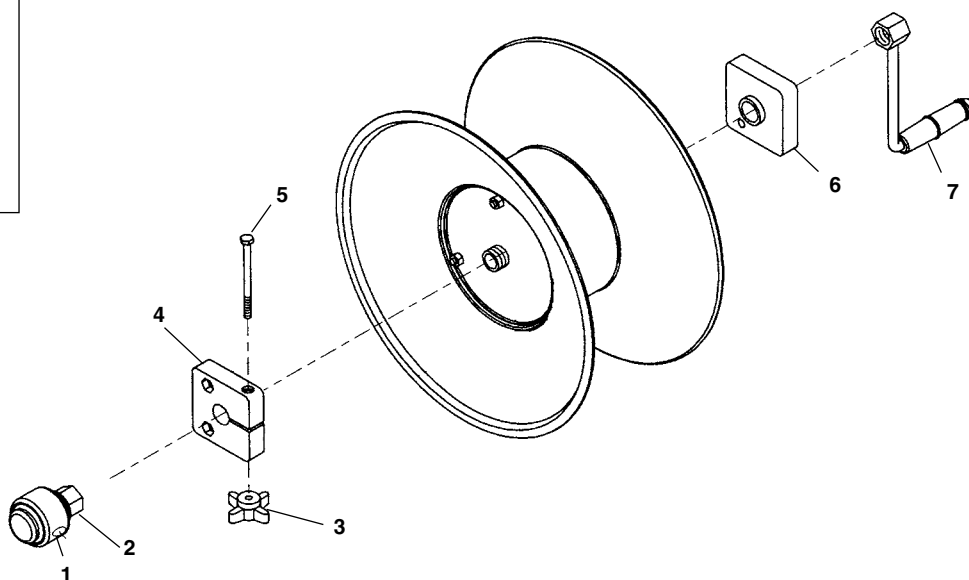
**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**



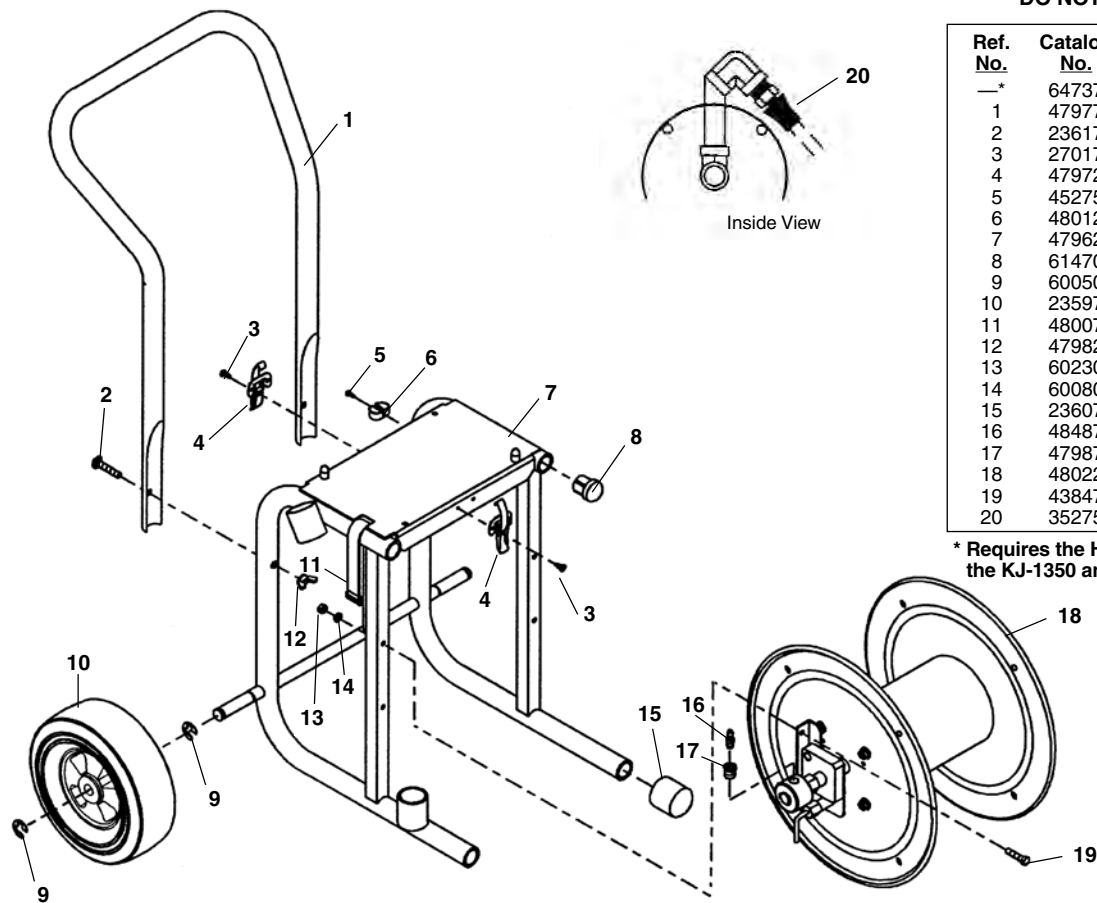
Ref. No.	Catalog No.	Description
—	62882	H-5 Hose Reel Assembly
1	37962	Rubber Foot
2	64022	Frame, Hose Reel
3	89870	Hex Screw, $\frac{5}{16}$ " - 18 x $1\frac{3}{4}$ "
4	54672	Hex Lock Nut, $\frac{5}{16}$ " - 18
5	64032	Hex Nipple, $\frac{1}{4}$ "
6	64027	Hose Reel COMPLETE
7	47987	Reducer Bushing,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

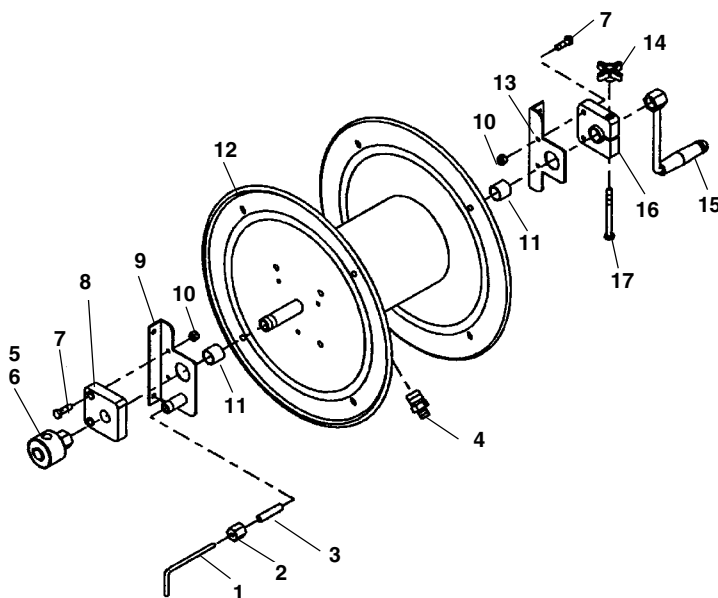


**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

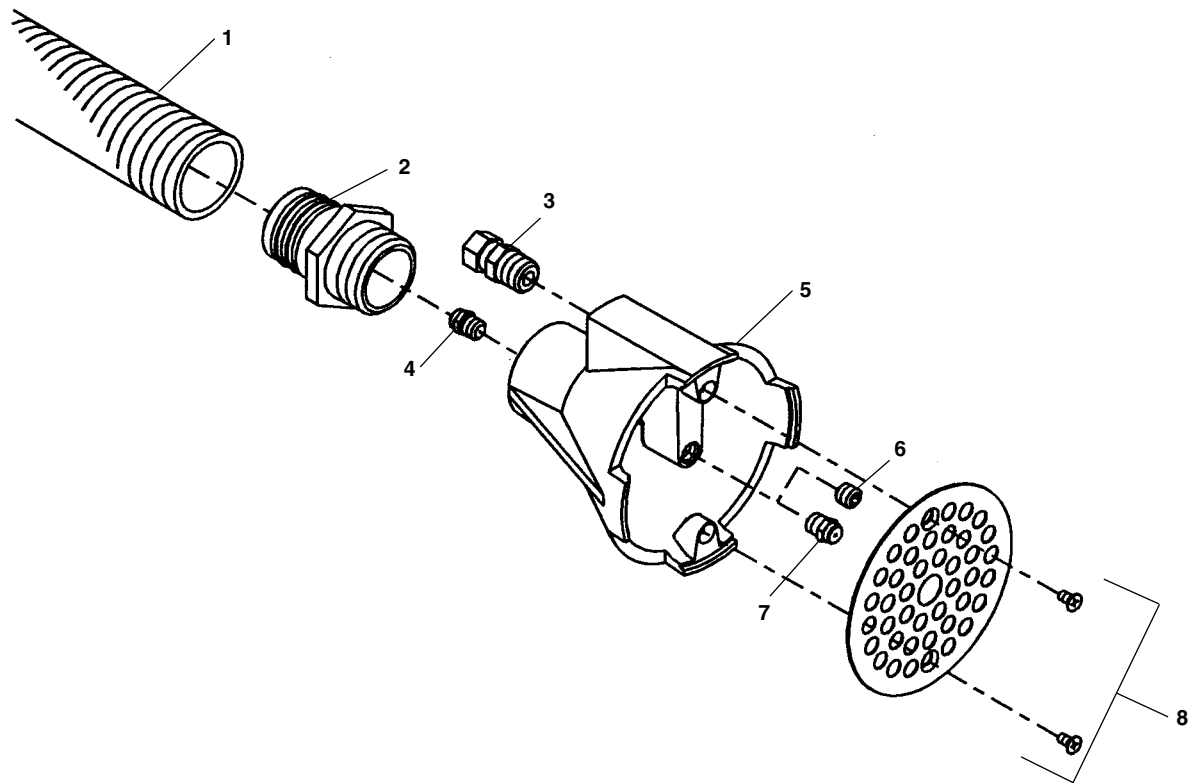
Ref. No.	Catalog No.	Description
—*	64737	H-30 Cart with Hose Reel
1	47977	Cart Handle
2	23617	Carriage Bolt, $\frac{3}{8}$ " – 16 x 2" (2)
3	27017	Screw, #12 – 24 x $\frac{5}{16}$ " (4)
4	47972	Latch (2)
5	45275	Screw, #10 – 24 x $\frac{1}{2}$ "
6	48012	Spring Clip
7	47962	Frame Weldment
8	61470	Rubber Plug
9	60050	Retaining Ring (4)
10	23597	Wheel (2)
11	48007	Cinch Strap
12	47982	Wing Nut, $\frac{3}{8}$ " (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



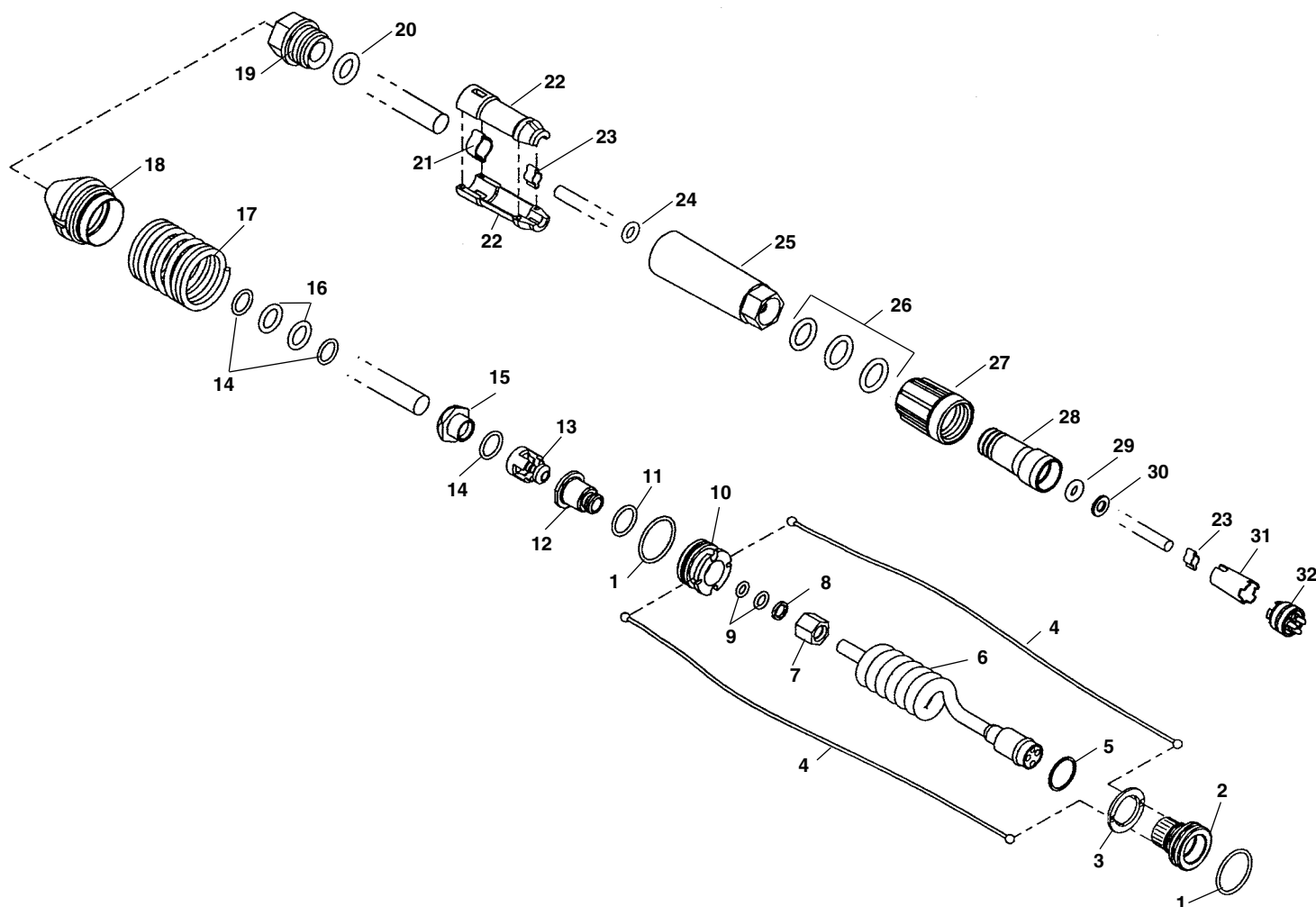
Ref. No.	Catalog No.	Description
—	48022	Hose Reel COMPLETE
1	67677	Reel Lock
2	67682	Lock Nut
3	67687	Sleeve
4	67692	Reducer Bushing, $\frac{1}{2}$ " – $\frac{1}{4}$ " NPT M
5	67697	Swivel Connector
6	67702	Service Kit, Swivel
7	85910	Hex Screw, $\frac{5}{16}$ " – 18 x 1" (2)
8	67707	Bearing Block, 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.**

<u>Ref. No.</u>	<u>Catalog No.</u>	<u>Description</u>
—	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

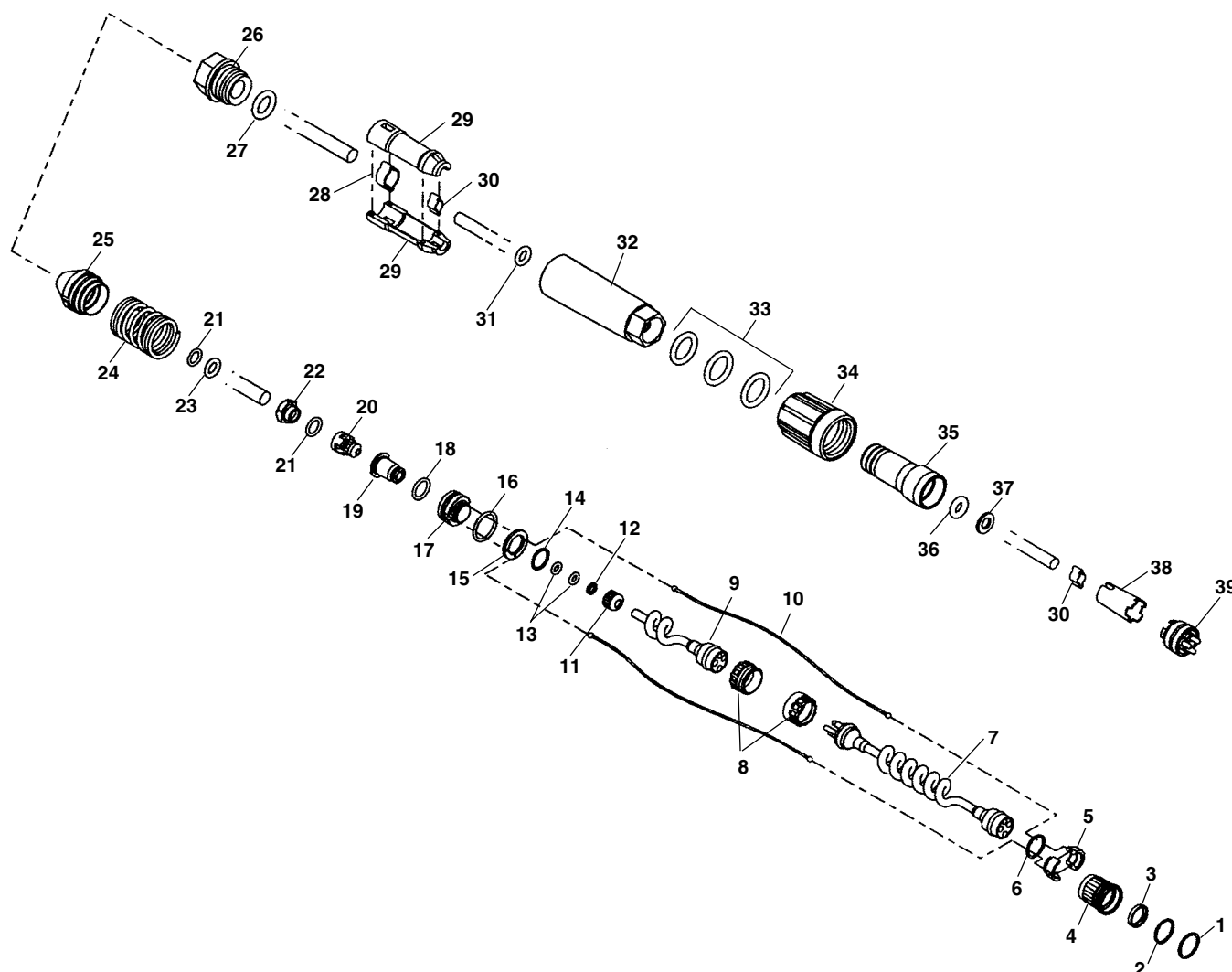
Regular Push Cable



**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
16	71517	O-Ring (2)	34	66802	Dry End Reterm Kit Incl.
17	69987	Spring Assembly			
18	71302	Rear Spring Shell			

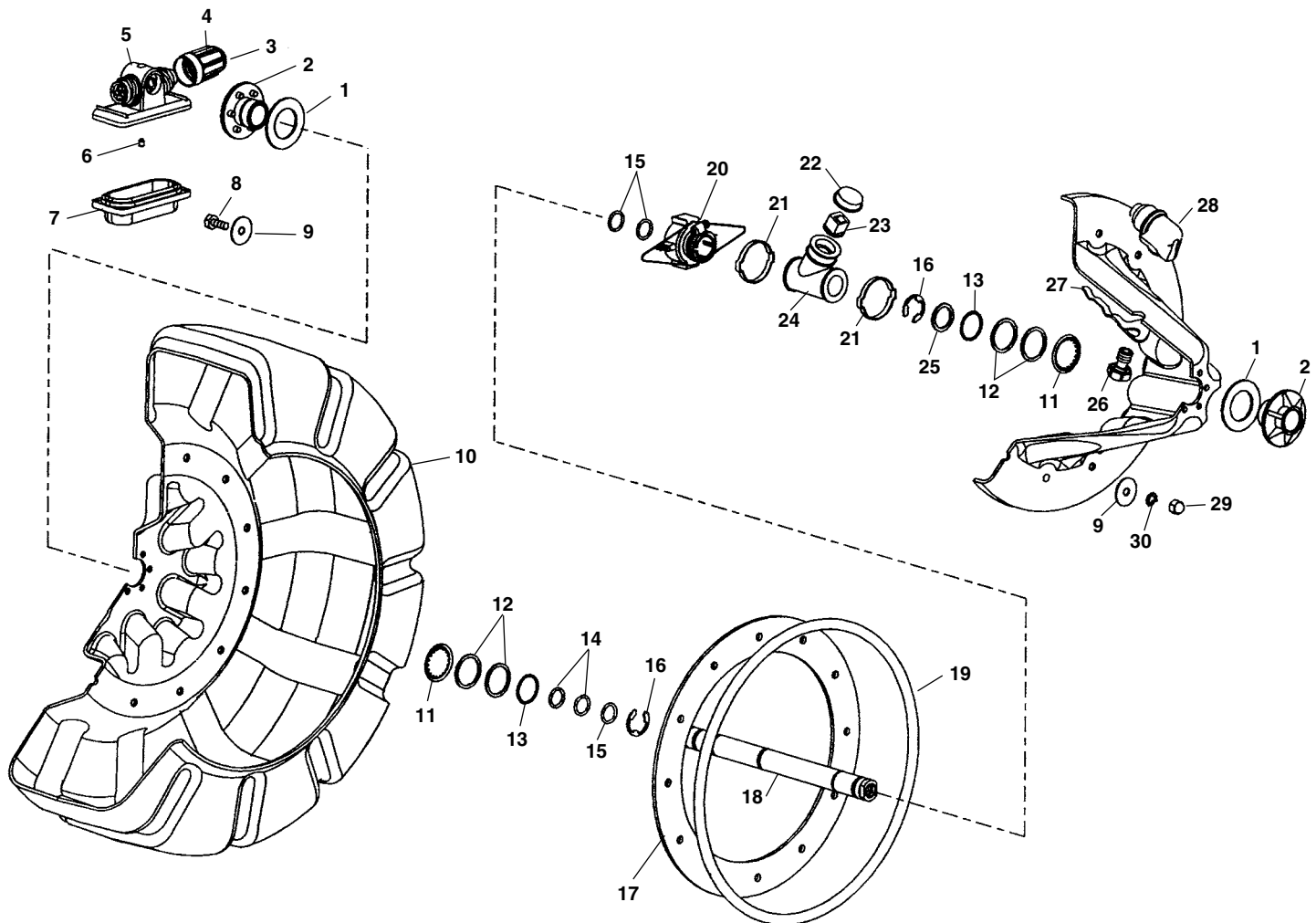
Mini Push Cable



**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	23	71227	O-Ring
2	71007	Locking Sleeve Front Washer	24	70037	Spring Assembly - Mini
3	71017	Locking Sleeve Rear Washer		14973	Spring Assembly - Mini Color
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)		15808	Mini Red Cable Retermination Kit
22	70997	Mini Push Nut	41	66802	Dry End Retermination Kit

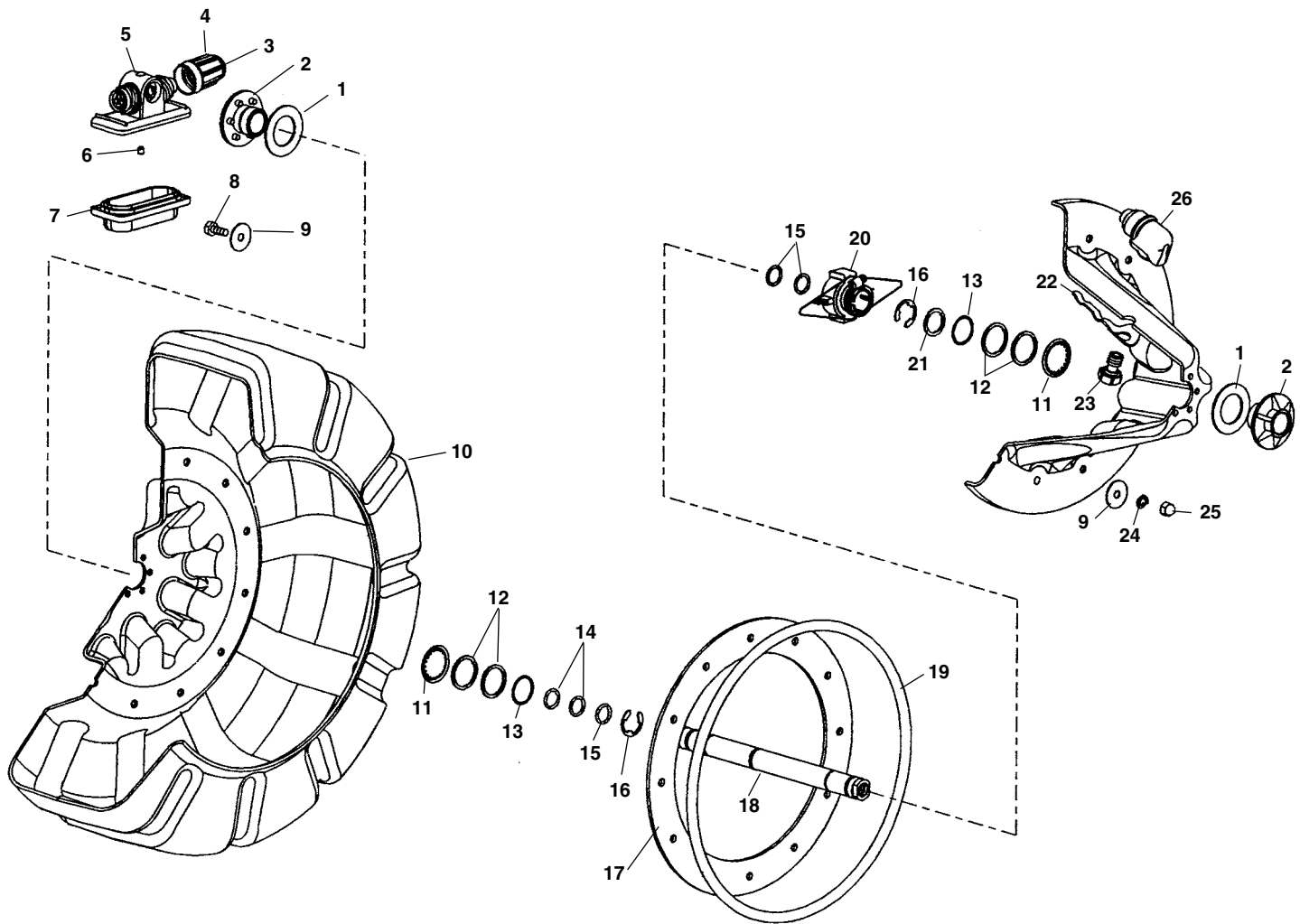
Regular Reel Assembly



**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)

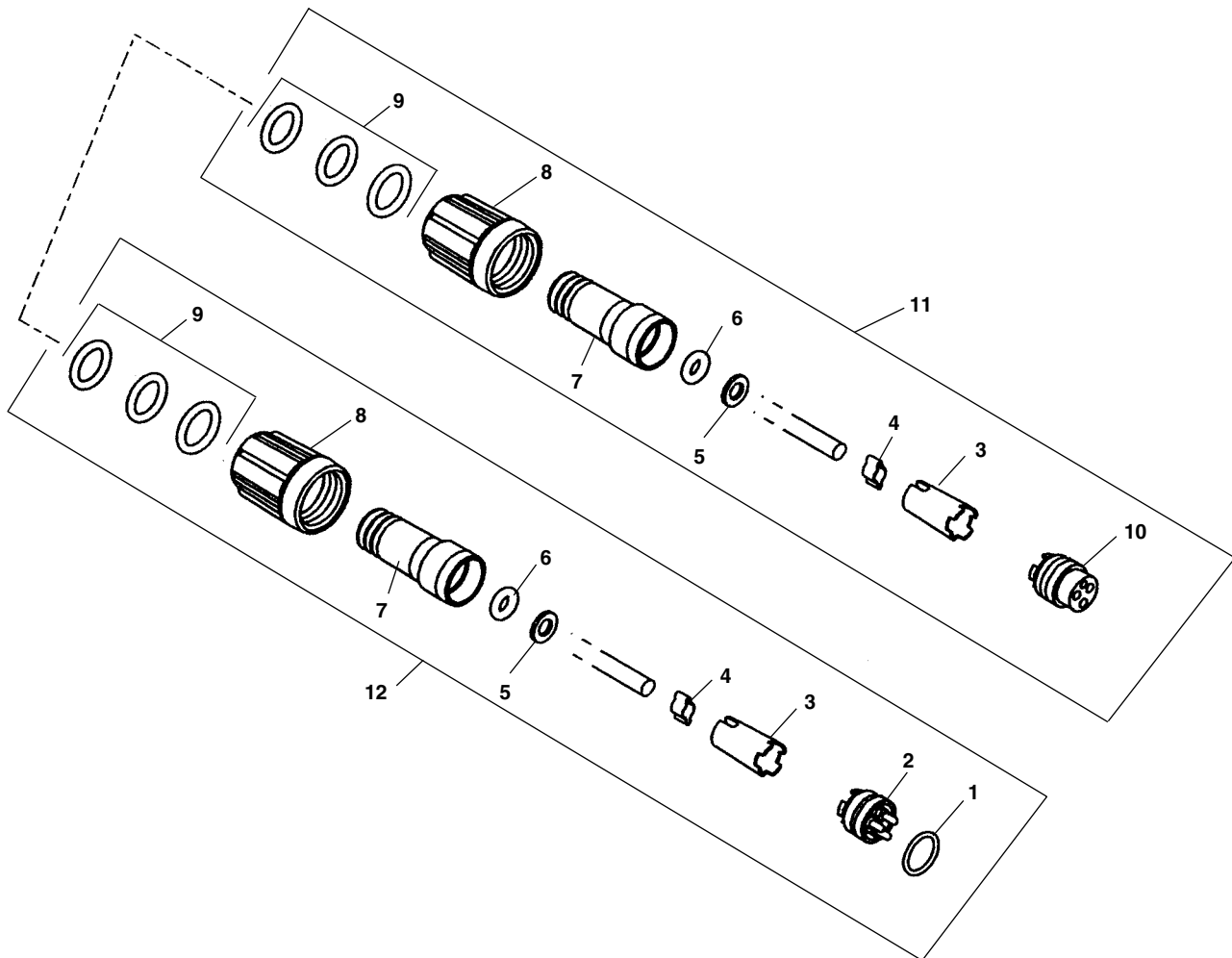
Mini Reel Assembly



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

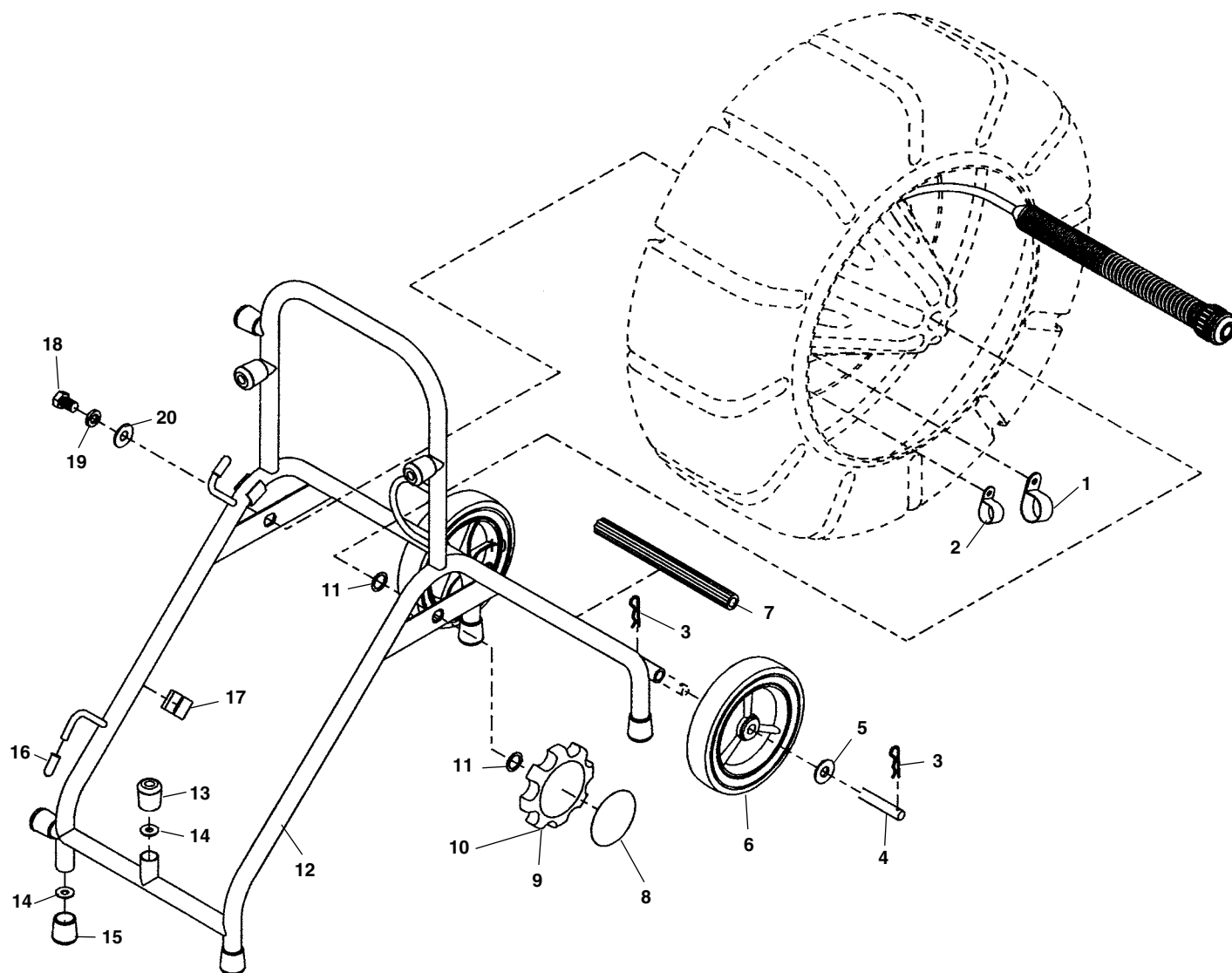
Interconnect Cord



**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)			

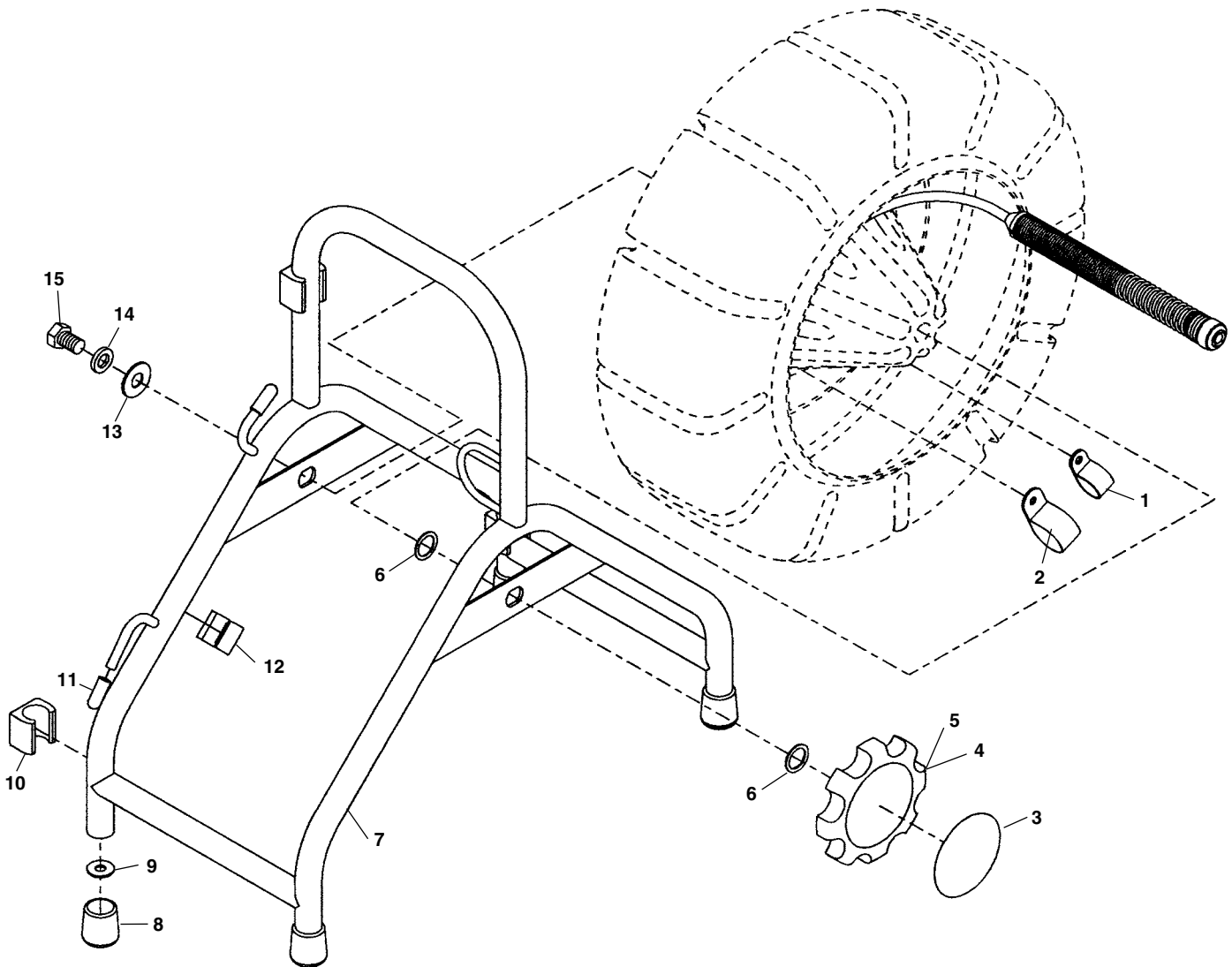
Regular Frame Assembly



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

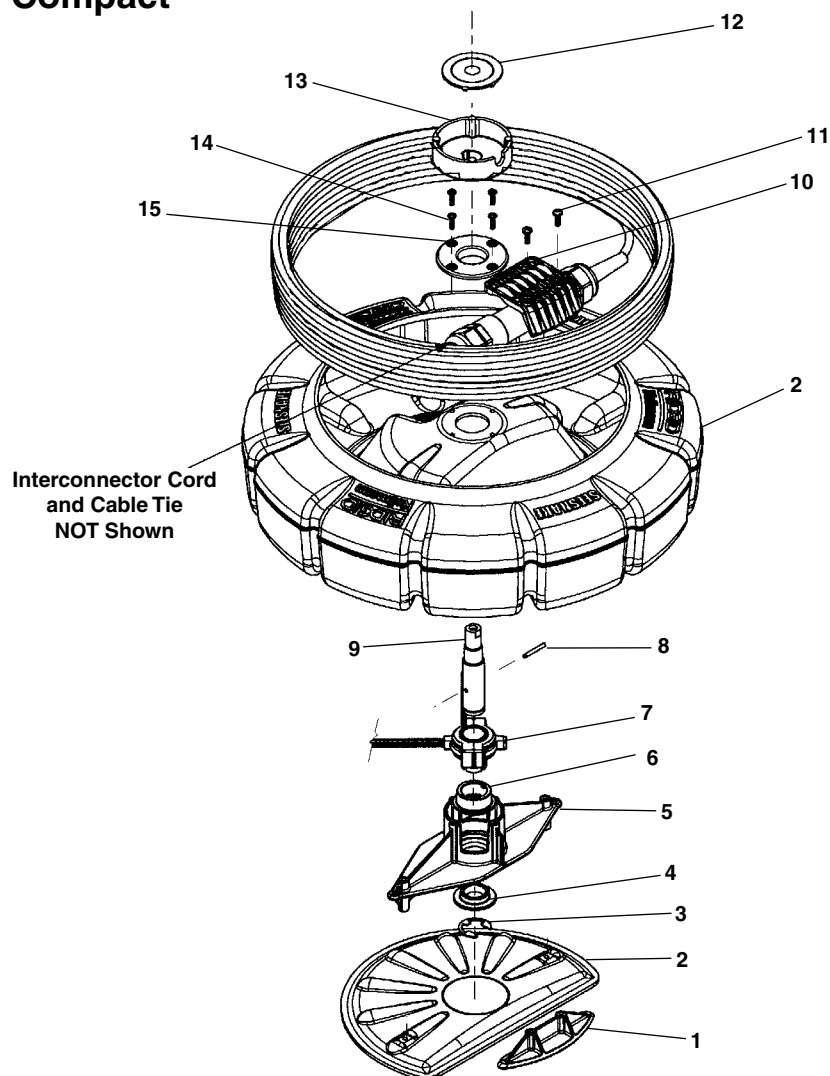
Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	71262	1/2" Dry Clamp	11	68267	Nylon Washer (2)
2	71267	7/8" Dry Clamp	12	66797	Frame
3	68257	Axle Pin	13	72542	Rubber Cap (3)
4	68247	Axle	14	72537	Back Up Washer (7)
5	68267	Nylon Washer	15	70042	Rubber Foot (7)
6	68242	Wheel for SeeSnake (2)	16	72562	End Cap (2)
7	68252	Axle Spacer	17	72532	Wire Clip (2)
8	71207	Decal for Tension Knob	18	72547	Rear Mount Bolt
9	68262	Tension Knob	19	72522	Lock Washer
10	72517	Bolt for Tension Knob	20	72527	Flat Washer

Mini Frame Assembly



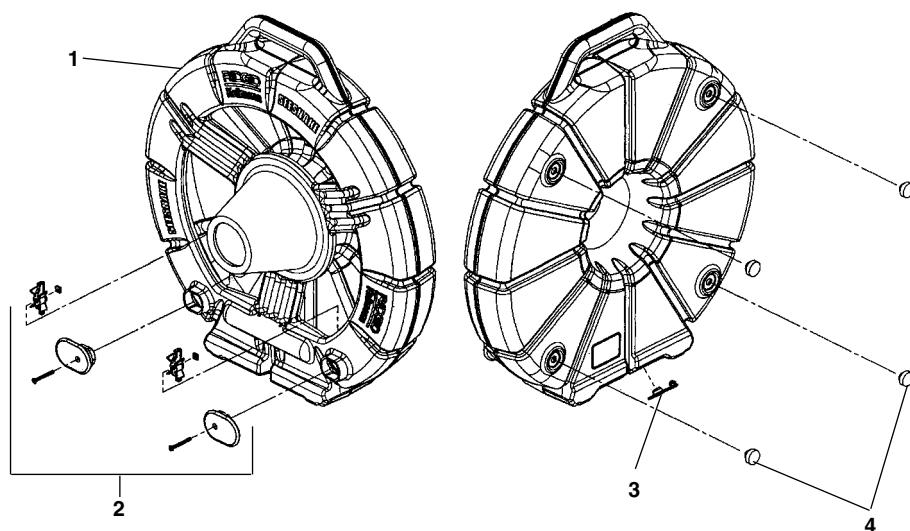
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	71262	1/2" Dry Clamp	9	72537	Back Up Washer (4)
2	71267	7/8" Dry Clamp	10	72557	Frame Bumper (3)
3	71207	Decal for Tension Knob	11	72562	Rubber End Cap (2)
4	68262	Tension Knob	12	72532	Wire Clip
5	72517	Bolt for Tension Knob	13	72527	Flat Washer
6	68267	Nylon Washer (2)	14	72522	Lock Washer
7	71647	Frame - Mini	15	72547	Rear Mount Bolt
8	70042	Rubber Foot (4)			

Compact

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

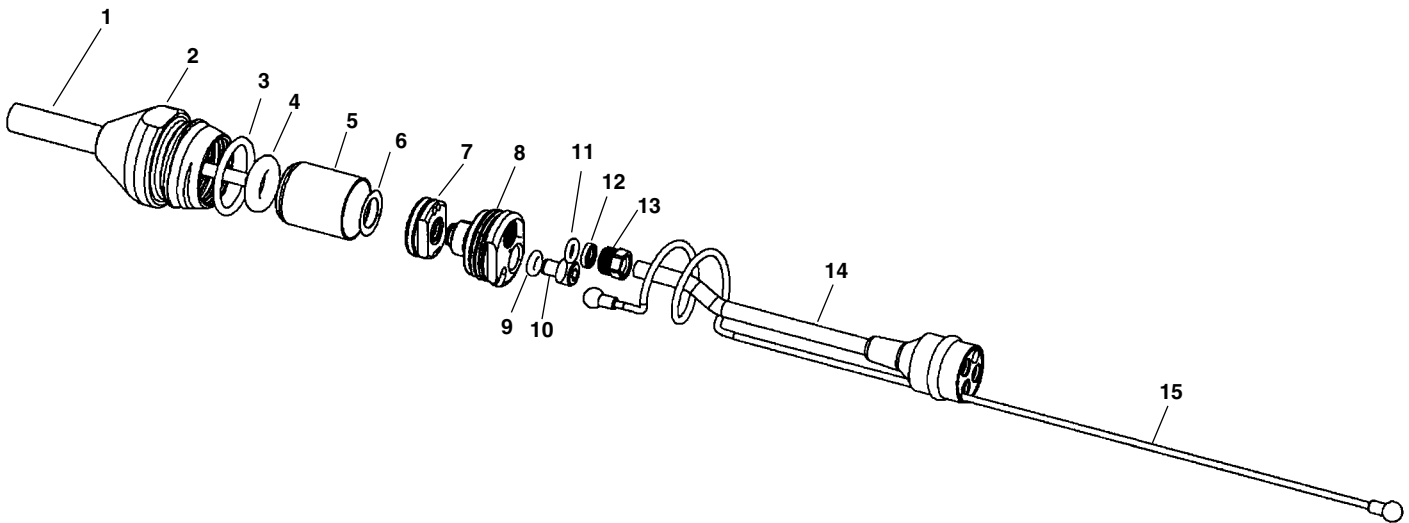
Ref. No.	Catalog No.	Description
1	97162	Tube Mount Base
2	97107	Compact Drum
3	97147	Retaining Ring
4	97127	Bottom Axle Radial Bushing
5	97117	Bottom Hub
6	97122	Bottom Axle Thrust Bush
7	97142	Slip Ring Assembly
8	97152	1/8" x 1" Dowel Pin
9	97112	Frame Axle
10	97157	Tube Mount
11	97172	#8 x 1/2" Screw (2)
12	97167	Axle Support
13	97137	Top Axle Bushing
14	97177	#6 x 1/2" Screw
15	97132	Top Hub

FlatPack

Ref. No.	Catalog No.	Description
1	97182	FlatPack Drum
2	97627	Cord Wrap Asm (COLOR)
3	97197	Cord Wrap Asm (B&W)
4	97207	Drain Plug
4	14008	Rubber Feet (4)

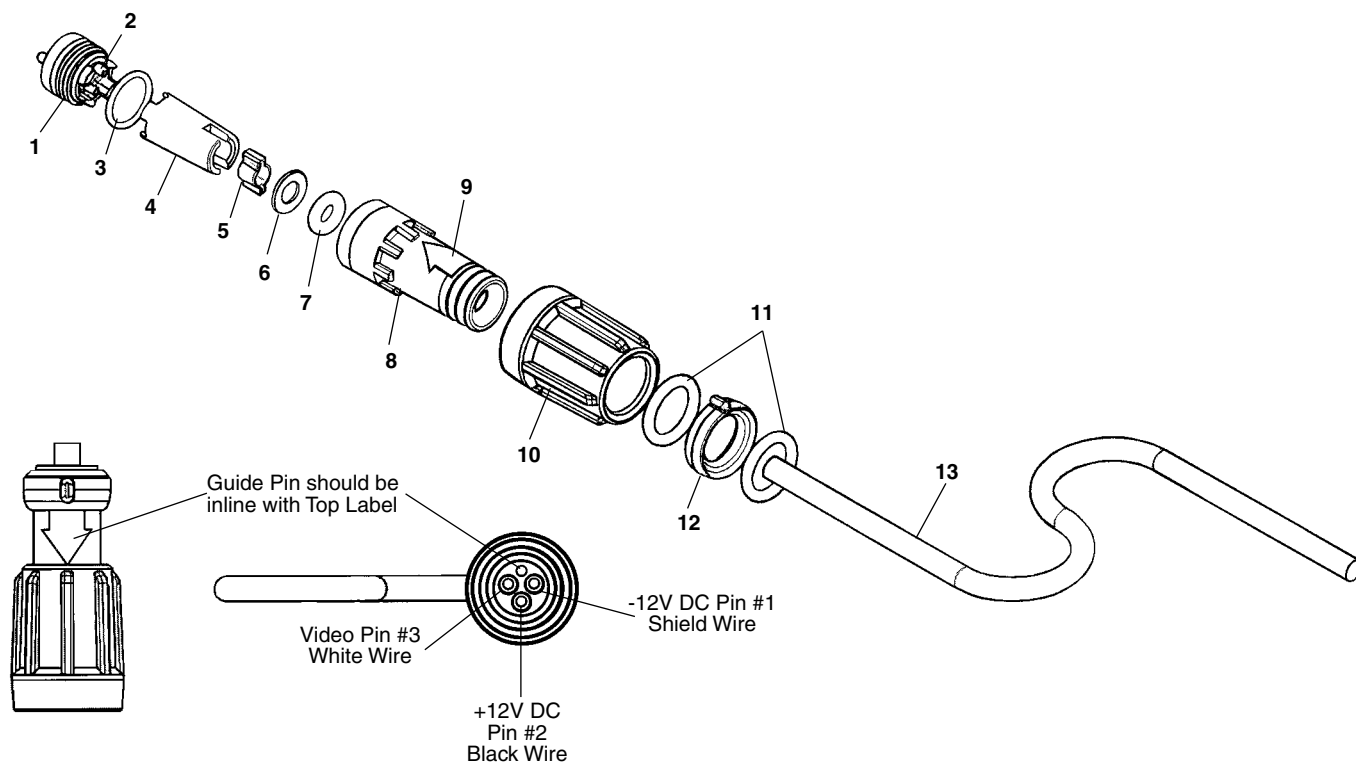
Not Shown		
	97202	Label Set (B&W)
	97632	Label Set (COLOR)

Compact/FlatPack SeeSnake Wet End Termination: Exploded View



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

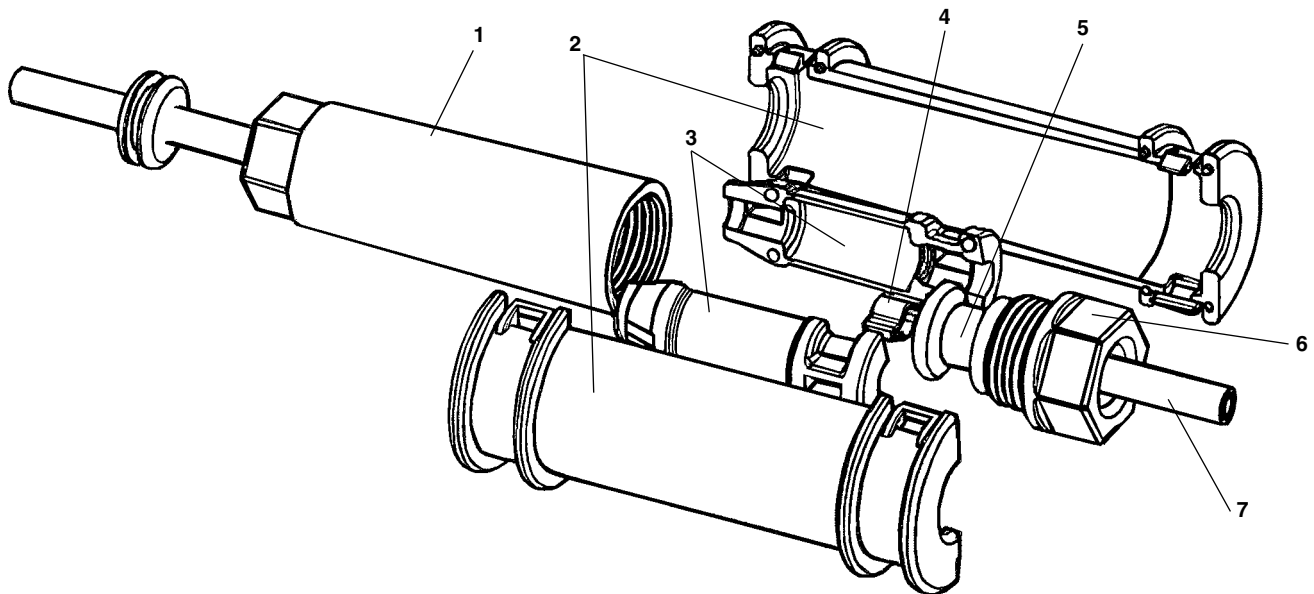
Ref. No.	Catalog No.	Description
1	18758	Raw Push Cable
2	18763	Spring Shell
3	18768	O-Ring
4	18773	O-Ring
5	18778	O-Ring Cap
6	18793	Spring Washer
7	18783	Push Nut
8	18788	Termination Plug
9	18828	O-Ring
10	18803	Screw
11	18798	O-Ring
12	18808	Back Up Ring
13	18813	Seal Screw
14	18818	Cord Assembly
15	18823	Safety Cable
	18733	Re-termination Kit Includes Ref. Nos 3,4,7,8,9,11,12
Items Not Shown		
	20263	Color Compact Spring Assembly
	20268	B&W Compact Spring Assembly
	20273	Locking Sleeve
	20278	Retaining Ring
	20283	Connector w/Ball Hole
	20288	Connector Minus Ball Hole

FlatPack SeeSnake Dry End Termination/Interconnect Cord: Male End

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

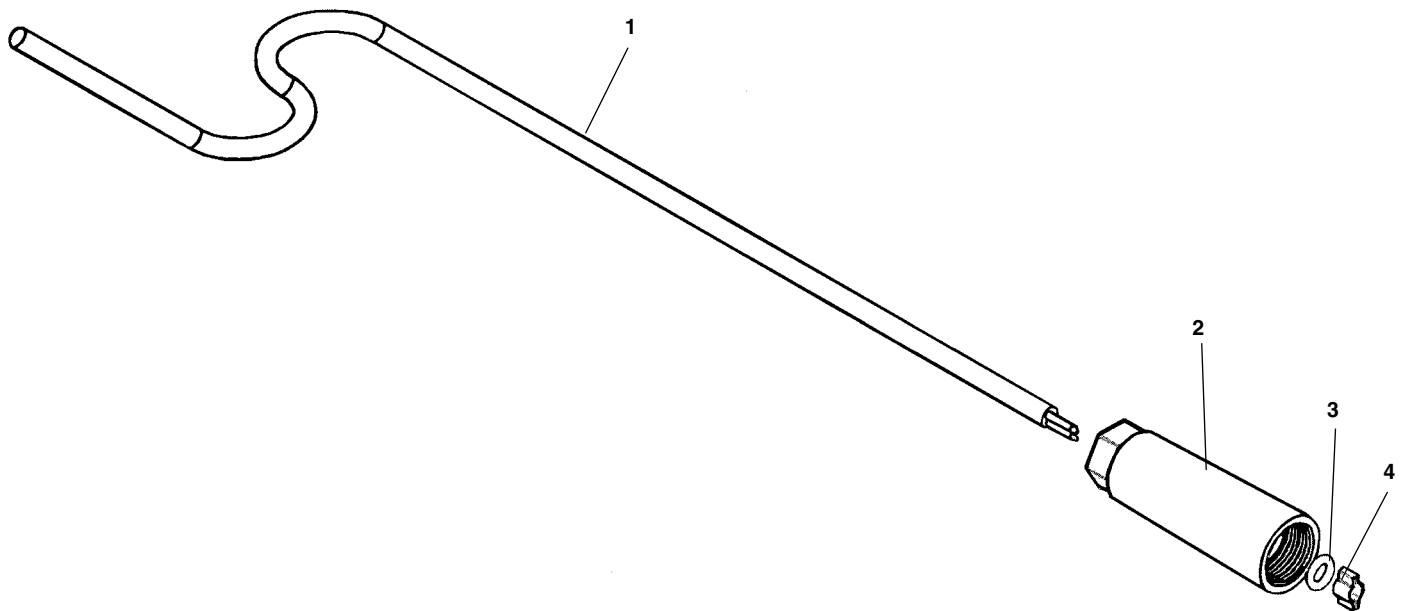
Ref. No.	Catalog No.	Description
1	71612	Male Insert
2	18863	Shrink Tube
3	18868	O-Ring
4	71597	Internal Shell
5	71607	Clamp
6	18873	Washer
7	18773	O-Ring
8	71592	InLine Shell
9	18878	Top Label
10	71602	Locking Sleeve
11	18883	O-Ring (2)
12	18888	Index Band
13	18893	Raw Cable

Compact/FlatPack SeeSnake Dry End Termination: Exploded View



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

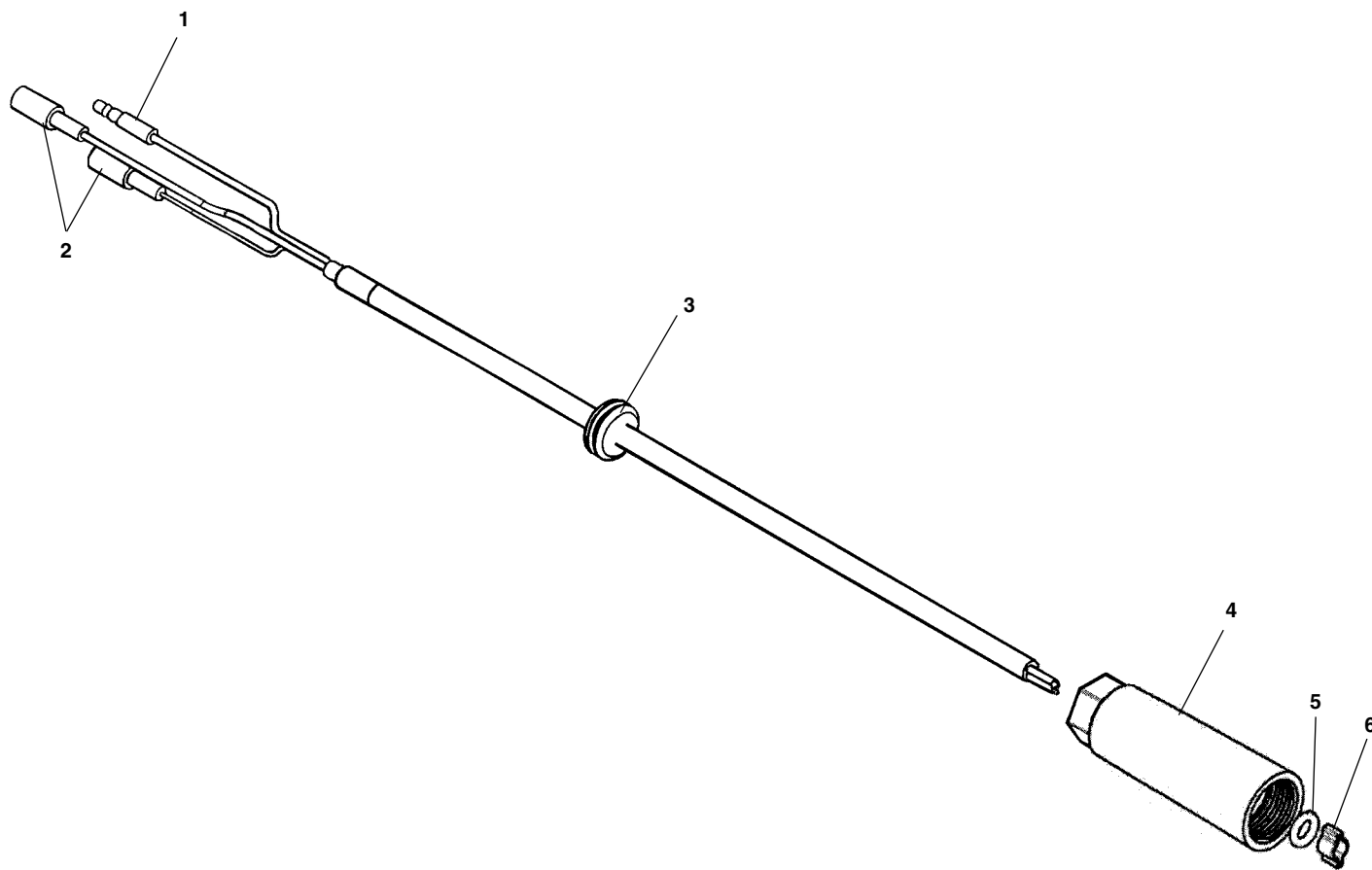
<u>Ref. No.</u>	<u>Catalog No.</u>	<u>Description</u>
1	18833	Compact Whip Assembly
	18838	FlatPack Cord Assembly
2	18843	Adapter
3	18848	Compact Inner Clam Shell
4	71607	Clamp
5	18853	Seal
6	18858	End Nut
7	18758	Raw Push Cable

FlatPack SeeSnake Dry End Termination/Interconnect Cord: Termination End

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

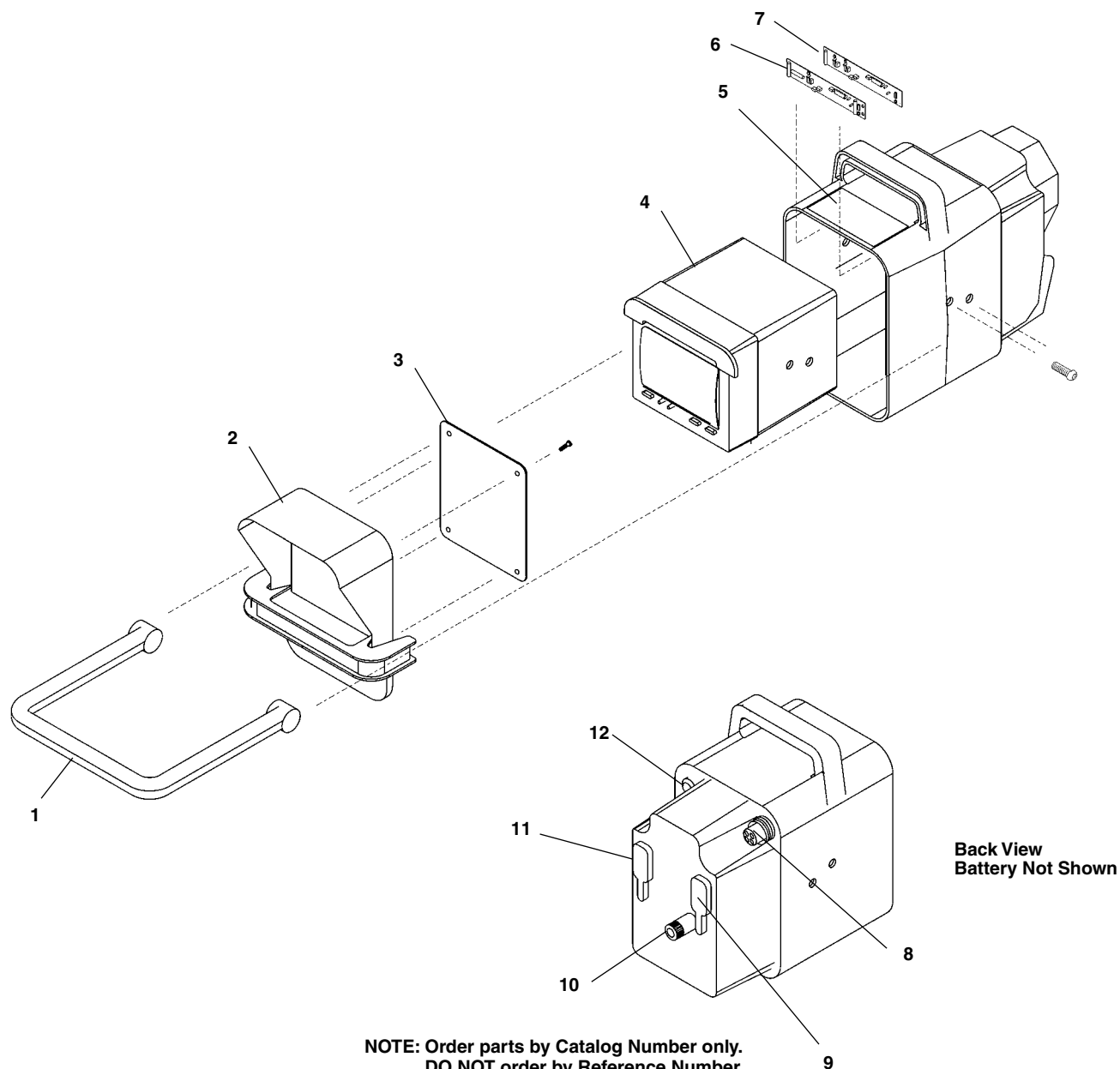
Ref. No.	Catalog No.	Description
1	18893	10 ft. Raw Cable
2	18898	Main Shell
3	18903	O-Ring
4	71607	Clamp

Compact SeeSnake Whip Assembly



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

Ref. No.	Catalog No.	Description
1	18908	Male Bullet Connector
2	18913	Female Bullet Connector
3	18918	Grommet
4	18898	Main Shell
5	18903	O-Ring
6	71607	Clamp



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

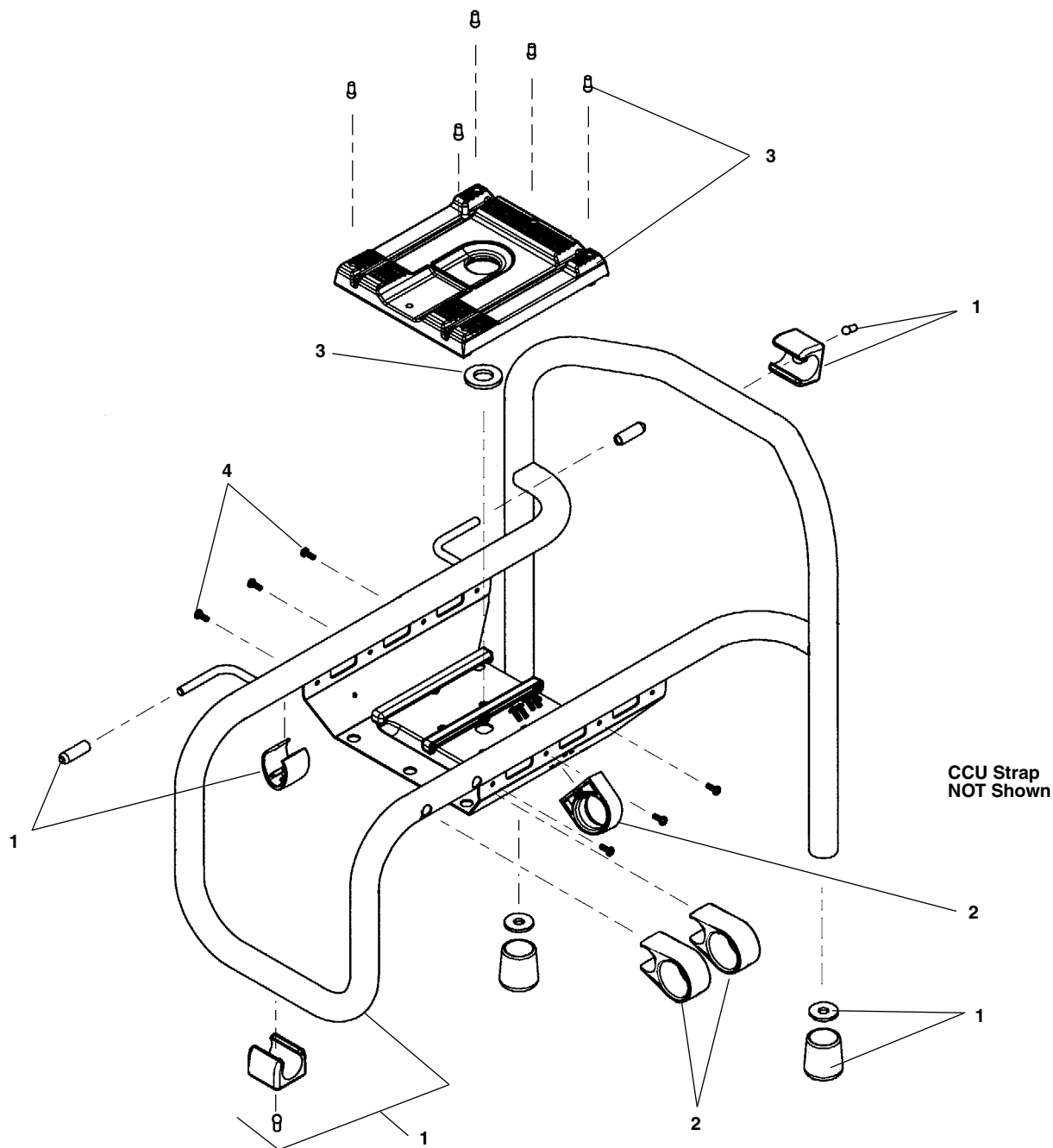
Ref. No.	Catalog No.	Description
1	97667	Kickstand w/Handle Asm.
2	97657	Monitor Lid (B&W)
	97662	Monitor Lid (COLOR)
3	97672	Monitor Window Kit
4	97637	Monitor (B&W) EIA
	97642	Monitor (B&W) CCIR
	97647	Monitor (COLOR) NTSC
	97652	Monitor (COLOR) PAL
5	97677	Monitor Case (B&W)
	97682	Monitor Case (COLOR)
6	97707	Compact Power Board Asm
7	97712	Connector Board (Small Board)
8	77307	Bulkhead Connector
9	97697	Dust Cover (Black)
10	97717	Ground Post
11	97692	Dust Cover (Orange)
12	97702	Power Switch Asm

Items Not Shown

97722	Ground Post Cable
83407	14.4V Battery
95722	AC Adapter (115V)
95727	AC Adapter (230V)

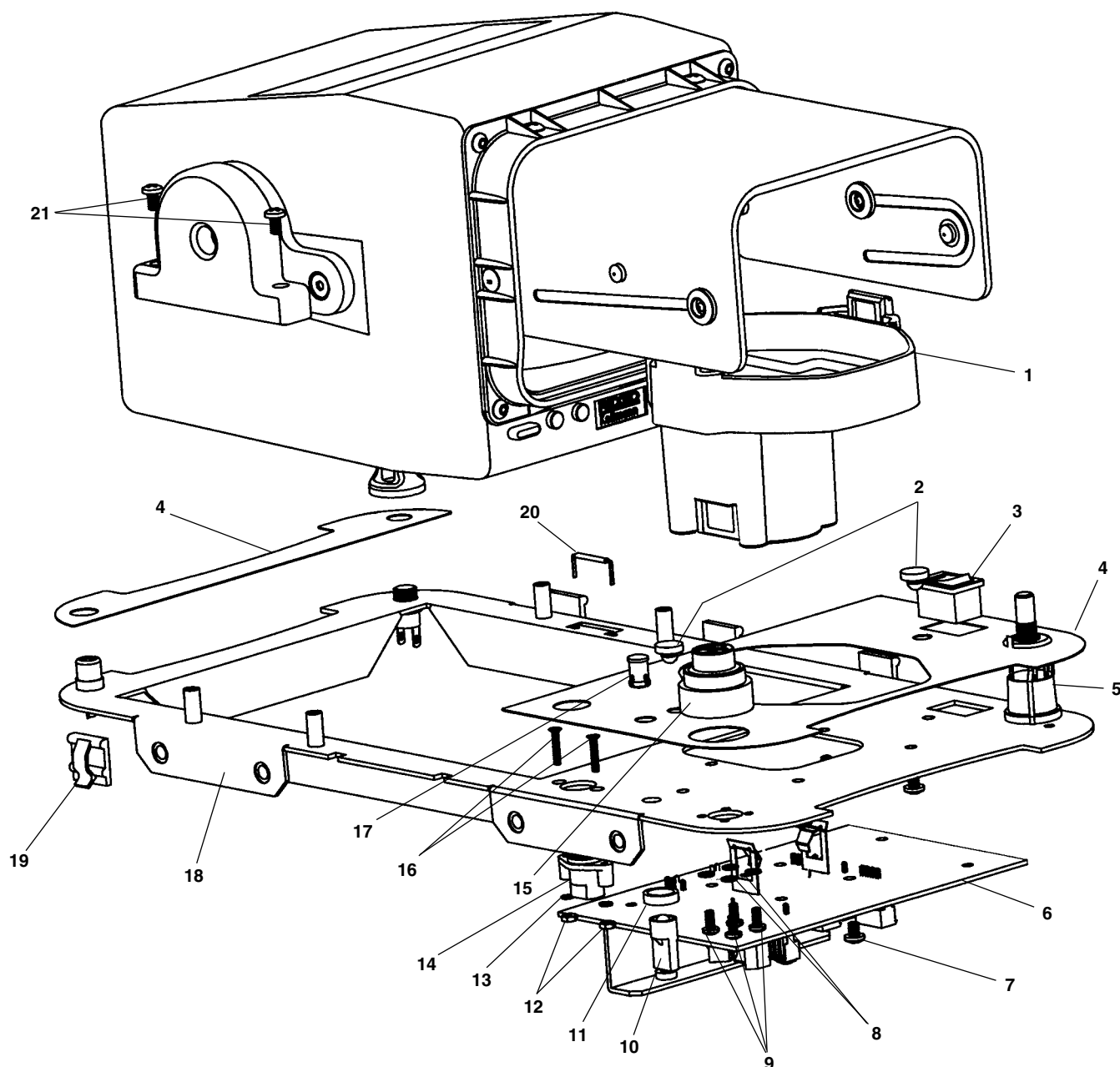
NOTE: All Monitors Include Labels

Frame



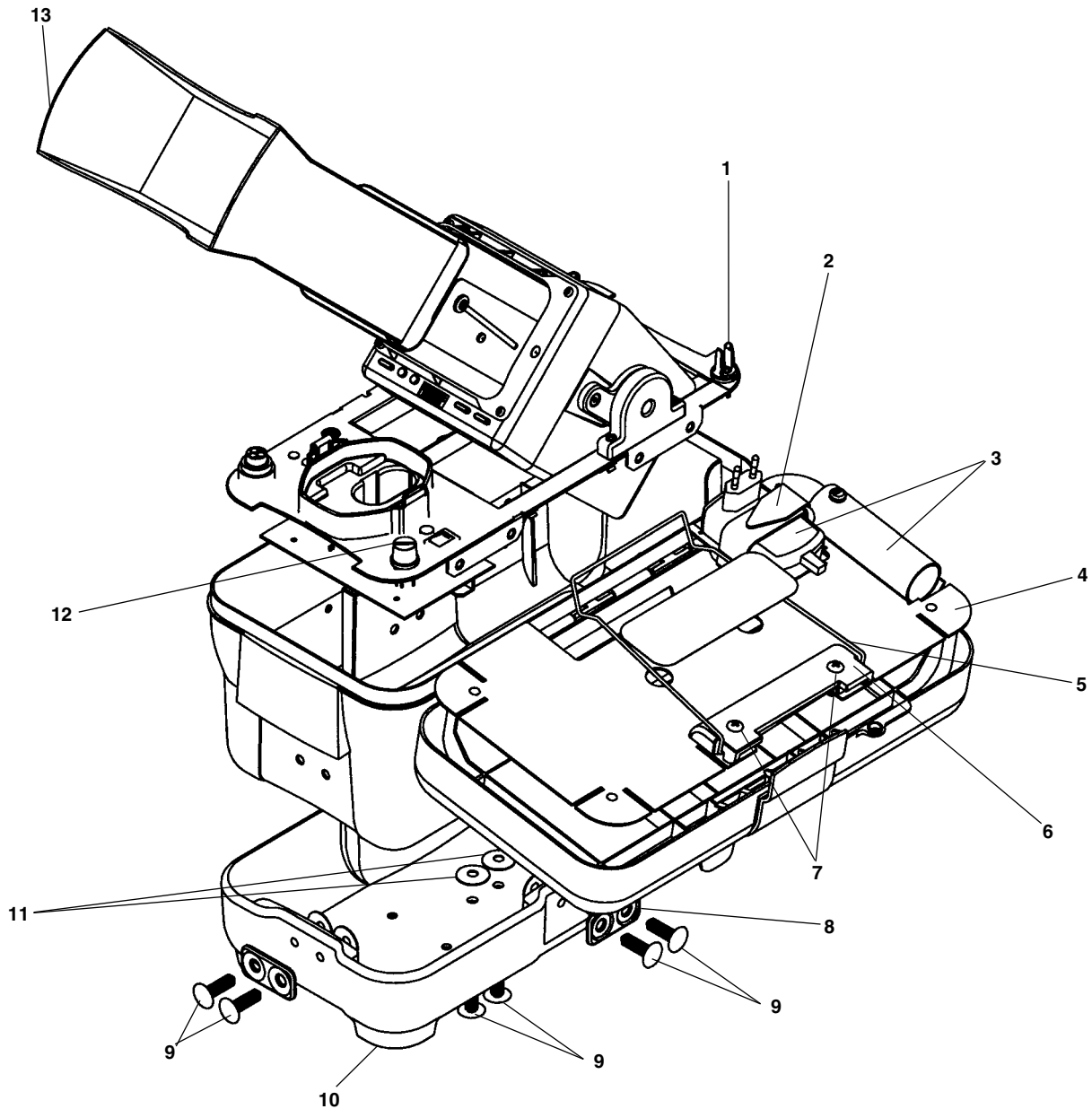
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description
1	97062	Frame Assembly w/Feet
2	97072	Cable Guide Set
3	97067	Monitor Pad Assembly
4	97082	Monitor Strap Hardware Assy.
Item Not Shown		
	97077	Monitor Strap



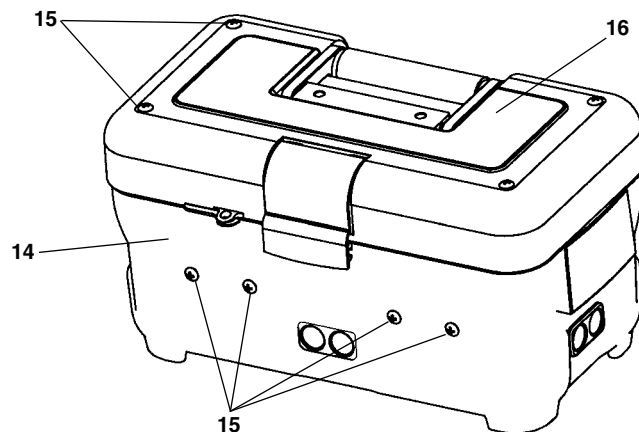
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

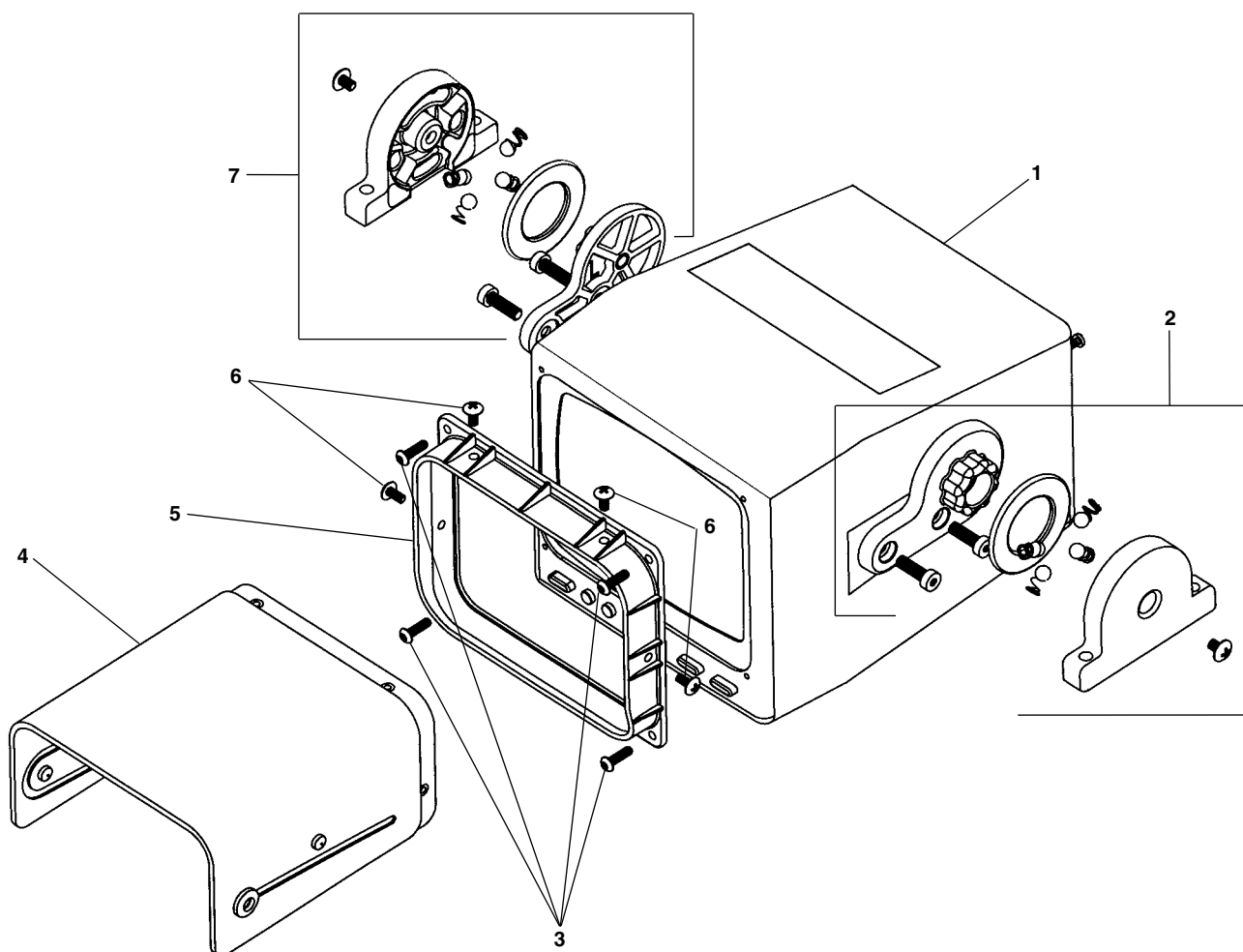
Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	83387	Battery Socket Assembly	12	88087	Nut (2)
2	88057	Rubber Button (2)	13	88082	Split Lock Washer (2)
3	86057	Switch Assembly	14	88172	Auxiliary Connector
4	88022	Base Panel Label Set	15	77307	Interconnect Bulkhead
5	87157	Dimmer Control 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)
	88017	Toolbox Label



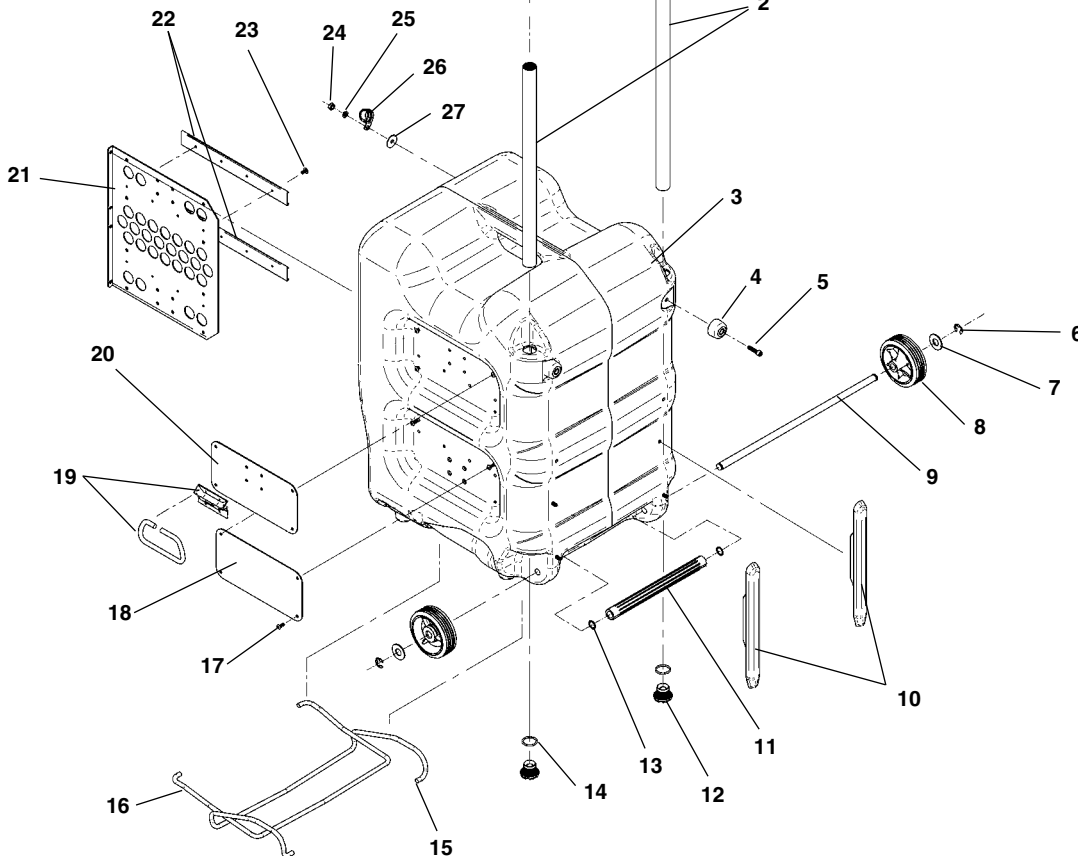


**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description
1	76927	Monitor Only 115V
	76932	Monitor Only 230V
2	88117	Right Pivot Assembly
3	88107	#6 x 1/8" 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	Left Pivot Assembly

**Items Not Shown
(Located on Back of Monitor)**

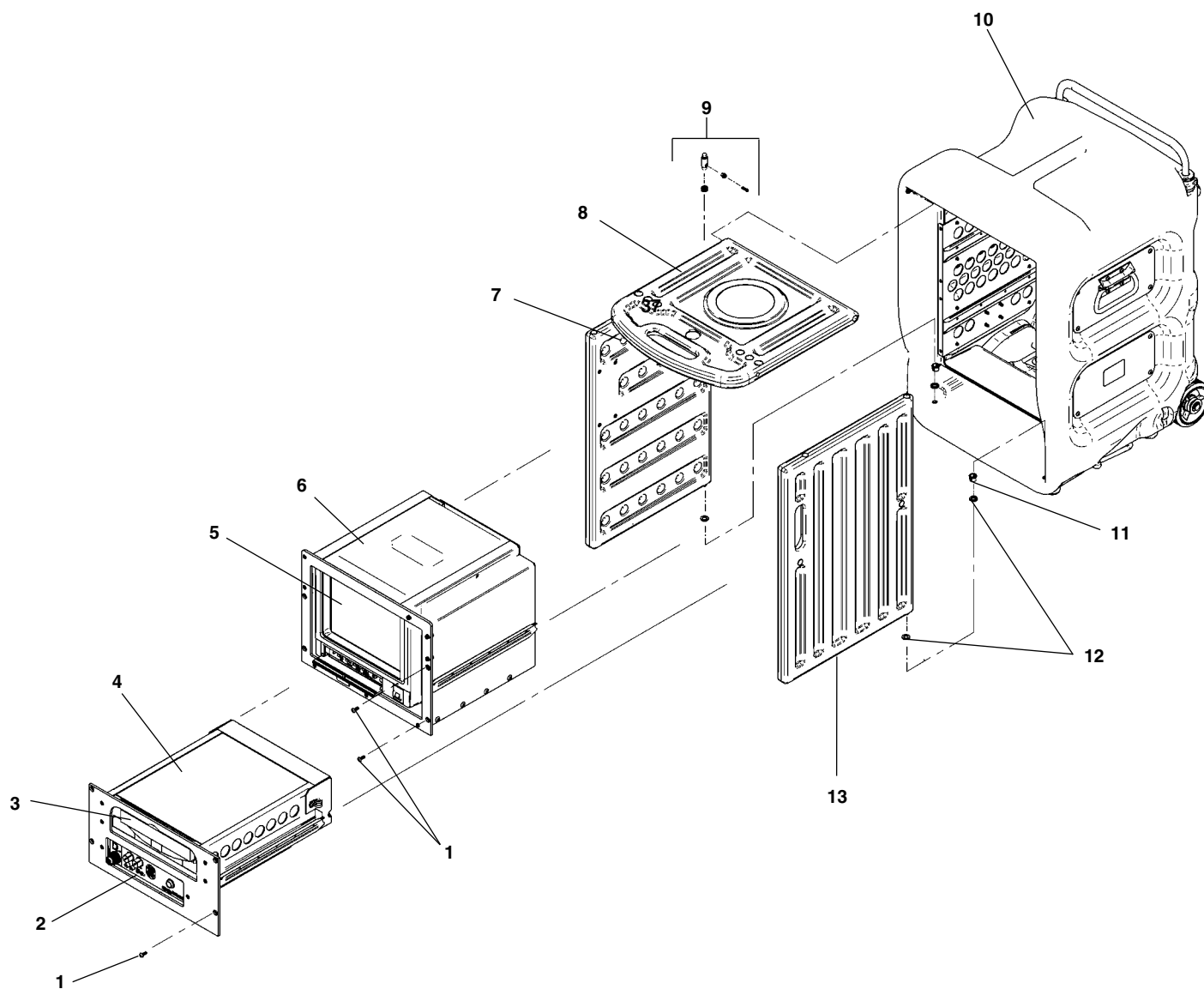
88097	Cable Tie
88167	White Spacer
88132	M3 x 12 mm Phillips Screw
87242	Cable Tie Clip



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

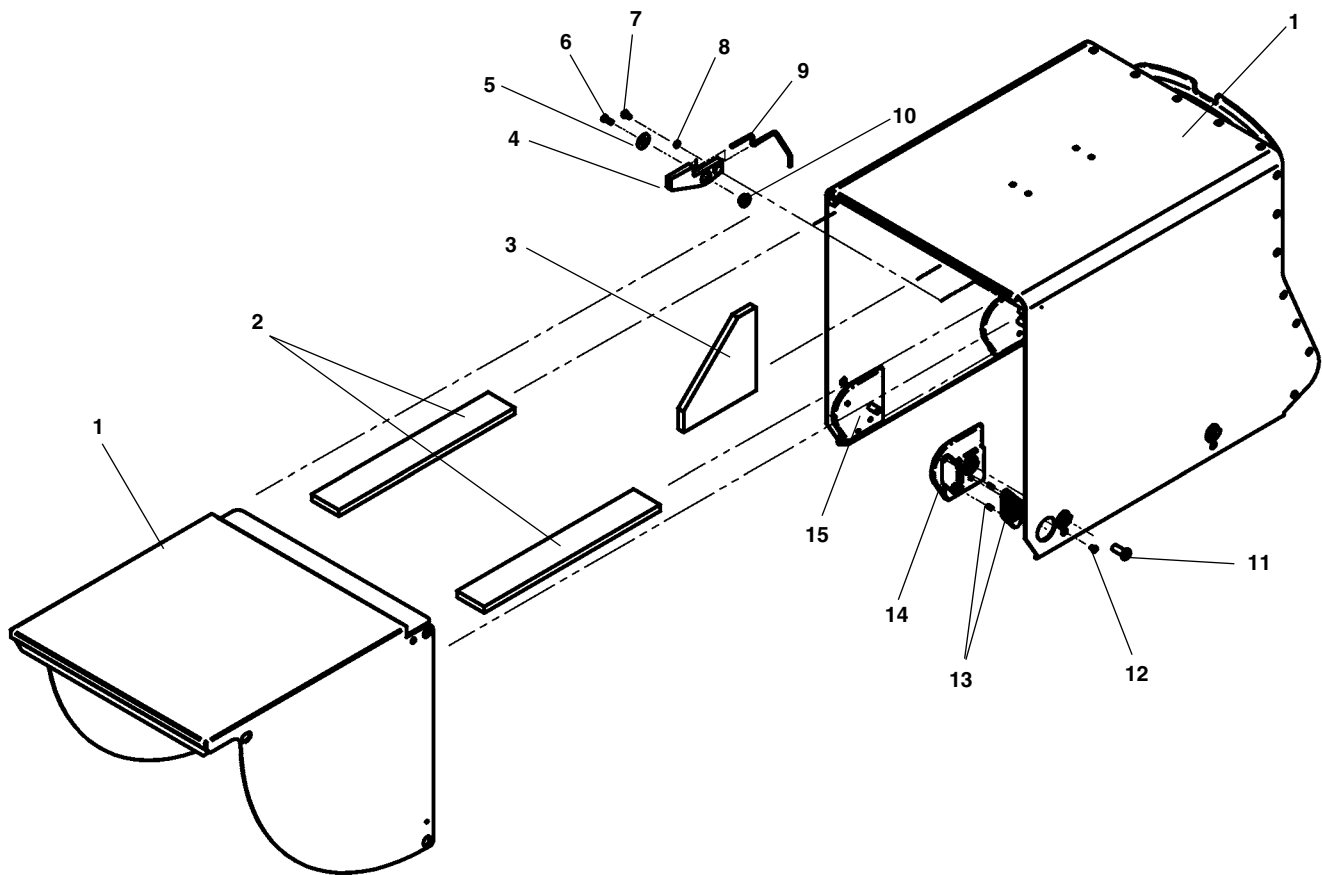
Ref. No.	Catalog No.	Description
1	15843	VSM Handle Assembly
2	15848	VSM Handle Tube Assembly (2)
3	15853	VSM Case Only
4	14918	Rubber Foot (6)
5	16003	Screw (6)
6	15858	Snap Ring (2)
7	15863	Washer (2)
8	15868	VSM Wheel (2)
9	15873	Axle
10	15883	Skid (2)
11	68252	Axle Spacer
12	15888	Slide Tube Cap (2)
13	15878	Washer (2)
14	15893	Slide Tube O-Ring (4)
15	76942	Rear Kickstand

Ref. No.	Catalog No.	Description
16	76937	Front Kickstand
17	15898	Screw (24)
18	15903	Bottom Plate
19	15908	Side Handle
20	15918	Top Plate
21	15923	Inside Slide Track Plate
22	15928	Slide (4)
23	15933	Screw (12)
24	15938	Lock Nut (6)
25	15943	Washer (6)
26	15948	Cable Clamp
27	15953	Washer (12)
Item Not Shown		
	15958	Male Slide (4)



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

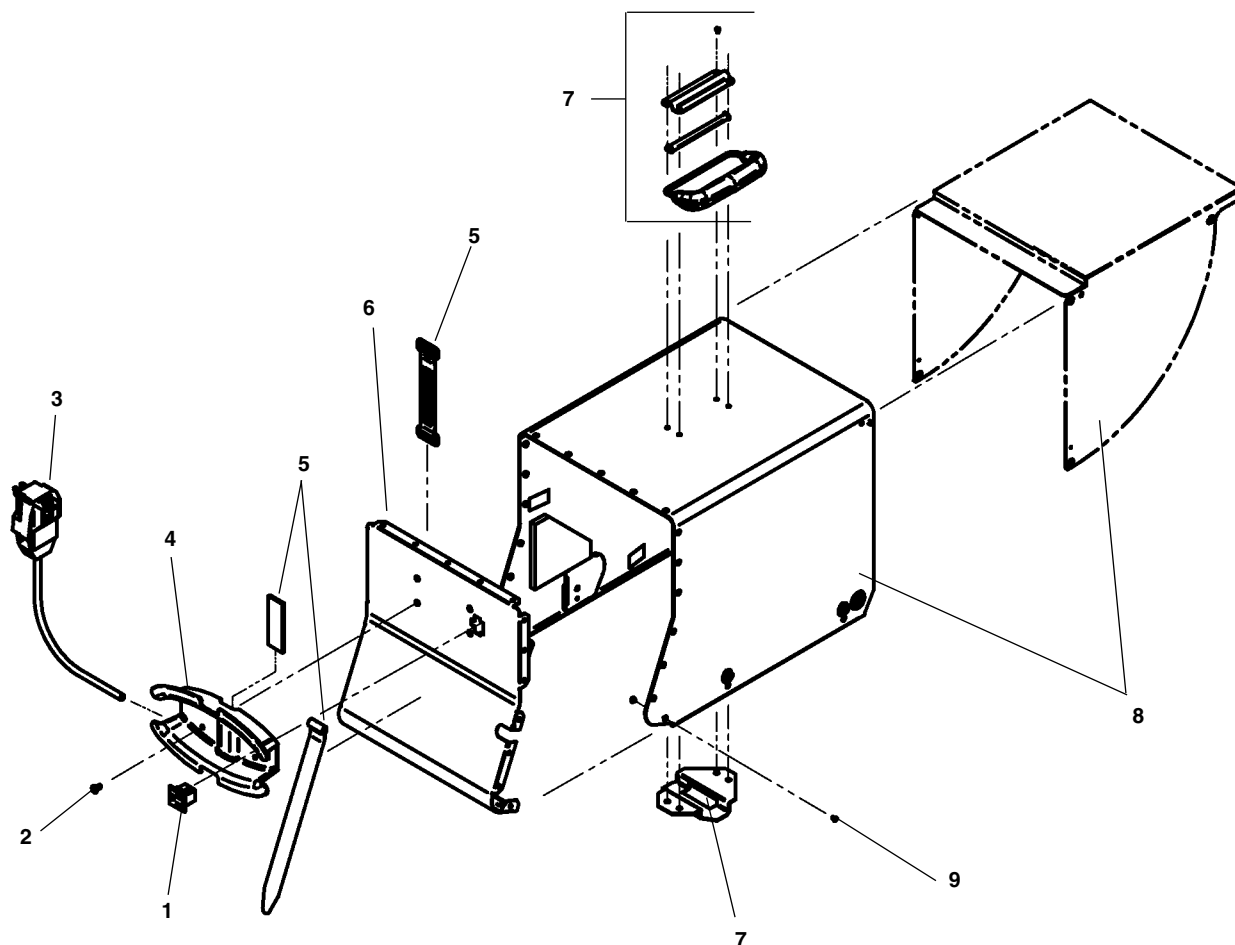
Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	15898	Screw (24)	6	15963	Monitor Frame Assembly
2	87252	Power Pack w/aud (115V)	7	15973	Left Door Assembly
	87257	Power Pack w/aud (230V)	8	15978	Top Door Assembly
3	76857	VCR Only (115V)	9	15988	Door Latch Assembly
	76862	VCR Only (230V)	10	15853	VSM Case Only
4	15968	VCR Frame Assembly	11	15993	Door Bushing (6)
5	76837	Monitor Only (115V)	12	15998	Washer (6)
	76842	Monitor Only (230V)	13	15983	Right Door Assembly



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

Ref. No.	Catalog No.	Description
1	10203	Monitor+VCR Housing Assembly (B&W) (Includes Ref. No. 1-11)
	10208	Monitor+VCR Housing Assembly (Color)
	25248	LCD Monitor/DVDR Housing Assembly (Includes Ref. No. 1-11)
2	14963	Top Foam Packing (Monitor/VCR)
	25253	Top Foam Packing (LCD/DVDR)
3	14968	Side Foam Packing
4	91587	Left Cover Block
	91592	Right Cover Block (Not Shown)
5	91612	Hood Retaining Washer (2)
6	91622	Pivot Screw (2)
7	91607	Hood Retaining Screw (2)
8	91617	Sun Hood O-Ring (2)
9	91602	Sun Hood Spring (Monitor/VCR) (2)
	25268	Sun Hood Spring (LCD Monitor/DVDR) (2)
10	91597	Pivot Shoulder Washer (2)
11	16843	Hex Head Screw (2)
12	14913	Screw (4)
13	14018	Push Button & Spring Assembly (2)
14	14983	Right Button Block Assembly
15	14978	Left Button Block Assembly

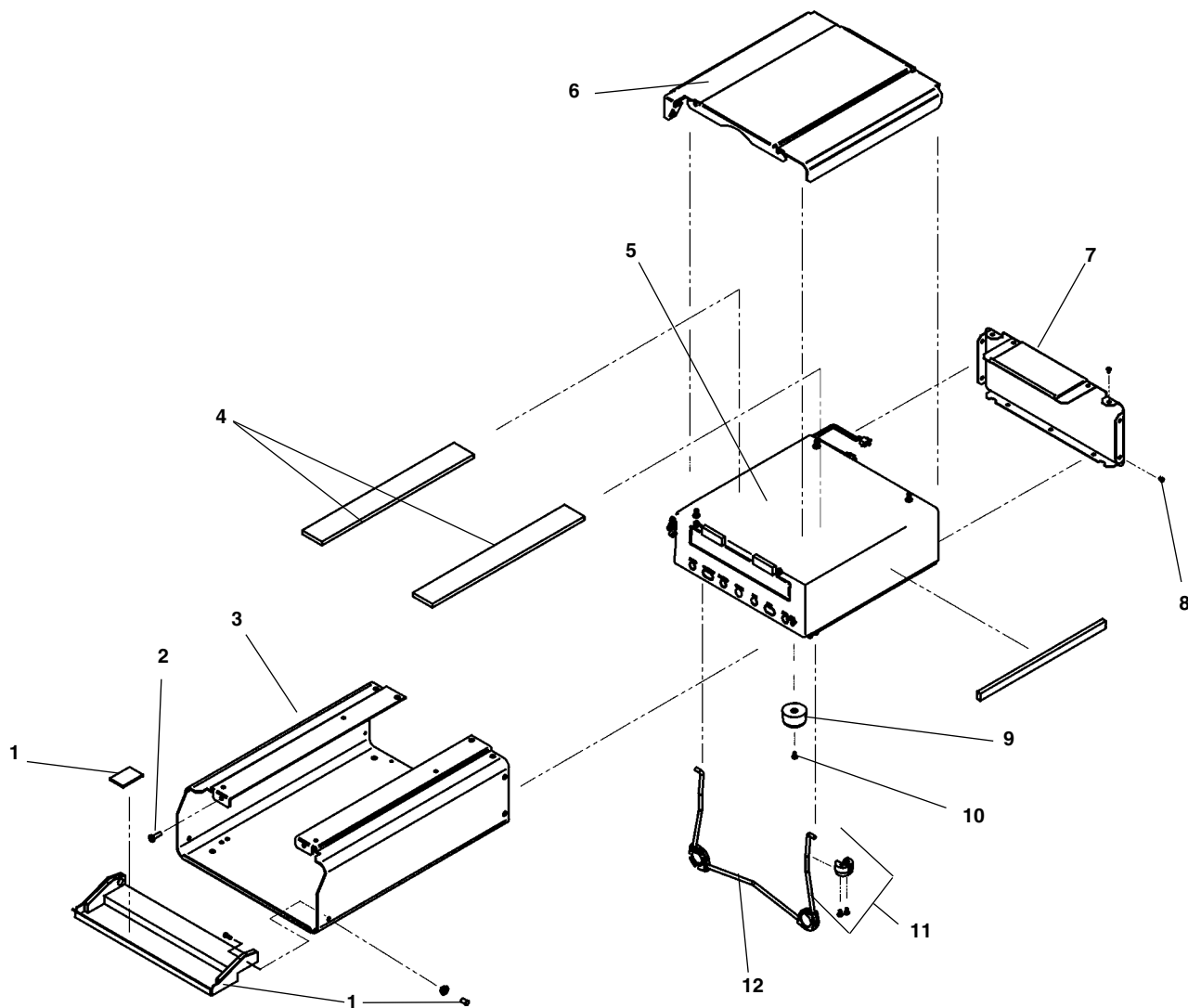
**NOTE: All listed parts compatible with both Monitor/VCR & LCD/DVDR
unless specifically described as belonging to particular system**



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

Ref. No.	Catalog No.	Description
1	87212	Outlet Only (EIA)
	87217	Outlet Only (CCIR)
2	16848	Screw (4)
3	71637	GFCI Cord (115V)
	87222	GFCI Cord (230V)
4	14943	Cord Wrap
5	14948	Cord Tie Strap Assembly
6	24268	Rear Monitor+VCR Cover (B&W)
	14938	Rear Monitor+VCR Cover (Color) (Also F/LCD/DVDR)
7	14838	Handle Assembly
8	10203	Monitor+VCR Housing Assembly (B&W)
	10208	Monitor+VCR Housing Assembly (Color)
	25248	LCD Monitor/DVDR Housing Assembly
10	14913	Screw (23)
Item Not Shown:		
	21843	Strain Relief w/Mounting Plate

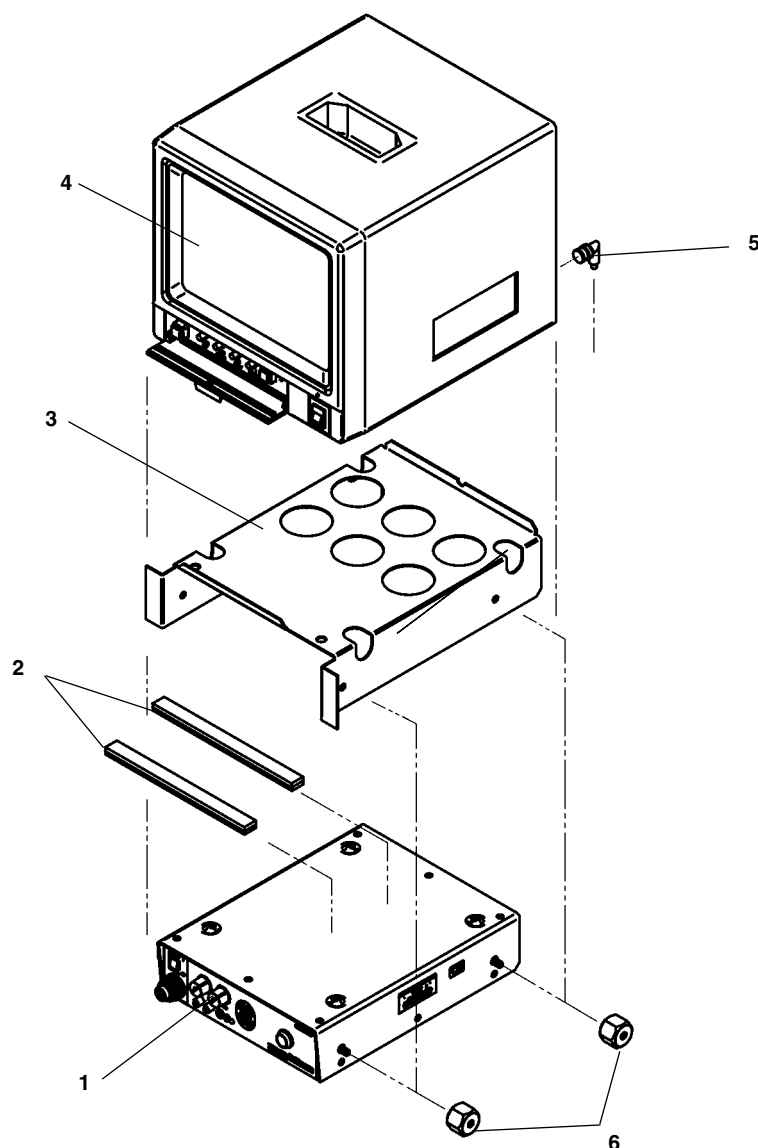
NOTE: All listed parts compatible with both Monitor/VCR & LCD/DVDR unless specifically described as belonging to particular system



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

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	14843	VCR Door Assembly	6	10898	VCR Bracket Assembly
	25273	DVDR Door Assembly		25228	DVDR Bracket Assembly (115V)
2	14848	Screw (2)		25233	DVDR Bracket Assembly (230V)
3	14853	VCR Shell Assembly	7	16833	VCR Backplate
	25223	DVDR Shell Assembly		25238	DVDR Backplate
4	14928	VCR Top Foam	8	14913	Screw (11)
	25288	DVDR Top/Side Foam (115V)	9	14918	Support Leg (4)
	25318	DVDR Top/Side Foam (230V)	10	14923	Screw (4)
5	76857	VCR (115V) (Black, Type 1)	11	14878	Kickstand Retainer Assembly
	23198	VCR (115V) Gray, Type 2)	12	76947	Kickstand Assembly
	76862	VCR (230V)			
	25328	DVDR Only (115V)			
	25333	DVDR Only (230V)			

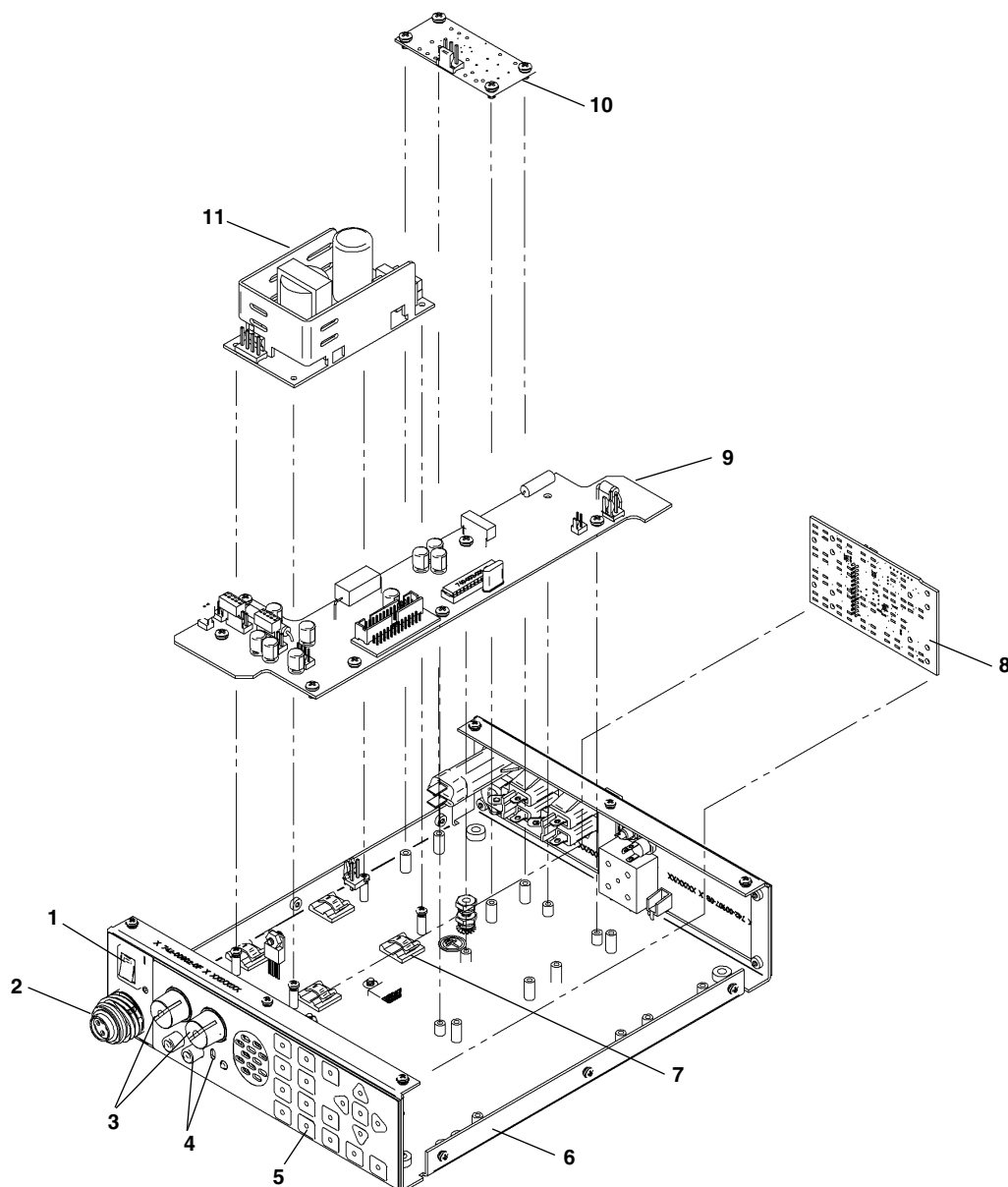
NOTE: All listed parts compatible with both Monitor/VCR & LCD/DVDR unless specifically described as belonging to particular system



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

Ref. No.	Catalog No.	Description
1	87252	Power Pack 115V (Monitor/VCR)
	87257	Power Pack 230V (Monitor/VCR)
	25128	Power Pack 115V (LCD/DVDR)
	25193	Power Pack 230V (LCD/DVDR)
2	14933	Foam (Monitor/VCR)
	25298	Foam (LCD/DVDR)
3	14958	Power Pack Cover (Color Syst Only)
4	76837	Monitor Only (B&W) 115V
	76842	Monitor Only (B&W) 230V
	76847	Monitor Only (Color) 115V
	76852	Monitor Only (Color) 230V
	25178	LCD Only (LCD/DVDR)
5	14953	90 Degree Adapter & Cable (Monitor/VCR Only)
	25258	SCART Cable (230V LCD/DVDR Only, Not Shown)
	16838	Spacer (Color Systems Only) (4)

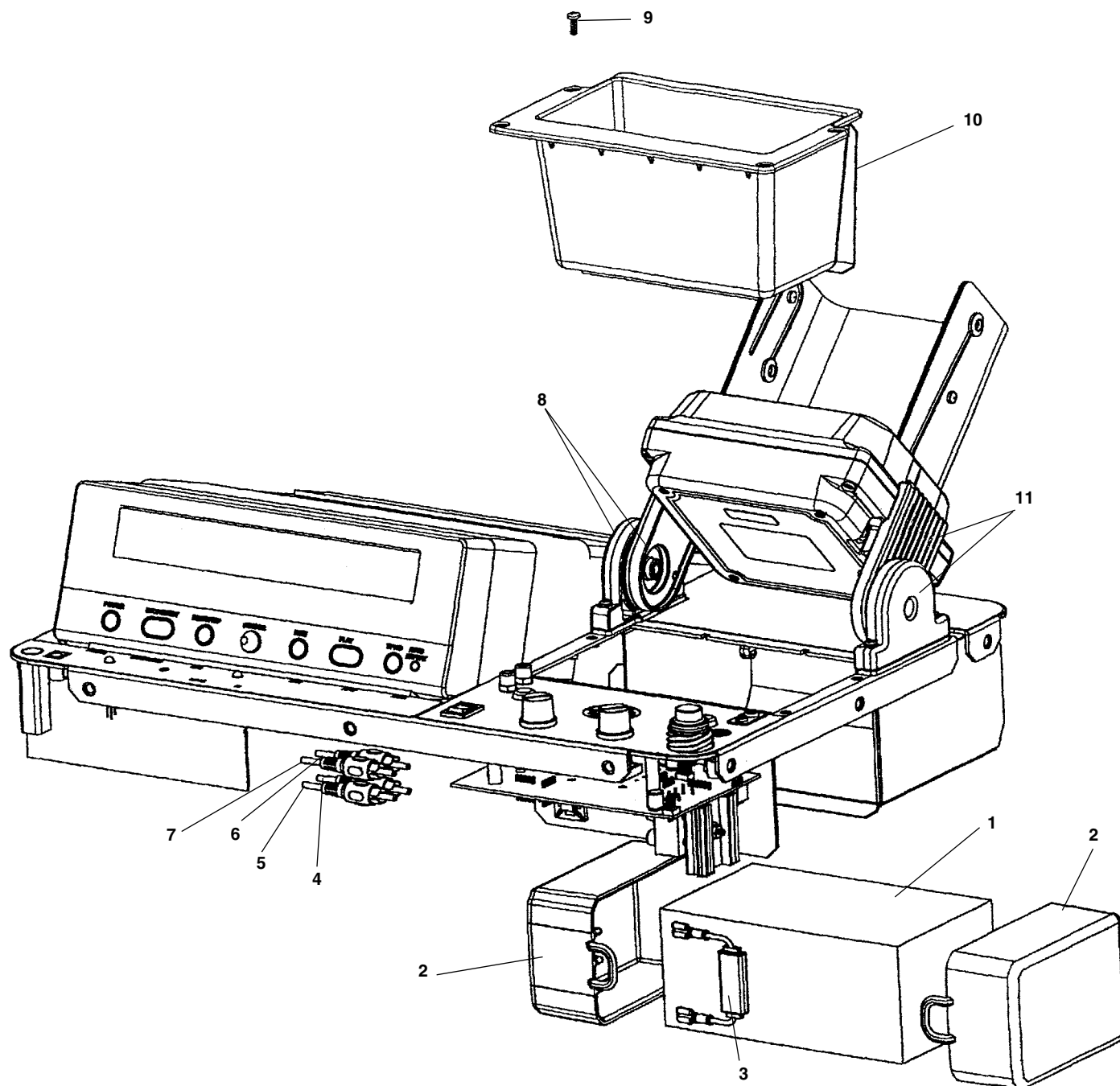
NOTE: All listed parts compatible with both Monitor/VCR & LCD/DVDR unless specifically described as belonging to particular system



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

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
	25128	DVDR Power Pack (115V)	8	25368	Keypad Circuit Board Assembly (LCD/DVDR Only)
	25193	DVDR Power Pack (230V)	9	25363	Circuit Board Asm (L Board, LCD/DVDR Only)
	87252	Monitor/VCR Power Pack (115V)		87167	Circuit Board Asm (L Board, Monitor/VCR Only)
	87257	Monitor/VCR Power Pack (230V)	10	87177	Power Protection Board Asm
1	86052	Power Switch Assembly	11	87172	Power Board Asm
2	77307	Bulkhead Connector		86062	Circuit Breaker 15 Amp (115V) (Not Shown)
3	87152	Knob w/Set Screw (2)		86067	Circuit Breaker 6 Amp (230V) (Not Shown)
	87157	Dimmer Control Switch (Yellow)		25373	IDC Cable, 26 Pin 6" (Not Shown LCD/DVDR Only)
		Not Shown		71637	GFCI (115V)
	87162	Volume Control Switch (Red)		87222	GFCI (230V)
		Not Shown			
4	86092	Speaker/Microphone Jack Asm			
5	25208	Keypad (LCD/DVDR Only)			
6	87237	Power Pack Case Bottom			
	87232	Power Pack Top Cover (Not Shown)			
7	87247	Adhesive Wire Clip			

NOTE: All listed parts compatible with both Monitor/VCR & LCD/DVDR unless specifically described as belonging to particular system



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

Ref. No.	Catalog No.	Description
1	93117	Battery
2	91892	Battery Cap (2)
3	91742	Fuse Board Assembly
4	91897	Red RCA Cable Assembly
5	91902	Yellow RCA Cable Assembly
6	91912	Green RCA Cable Assembly
7	91907	White RCA Cable Assembly
8	92647	Left Pivot Assembly
9	91867	6 - 32 x 3/8" Phil. Screw (8)
10	91882	Pocket
11	92652	Right Pivot Assembly

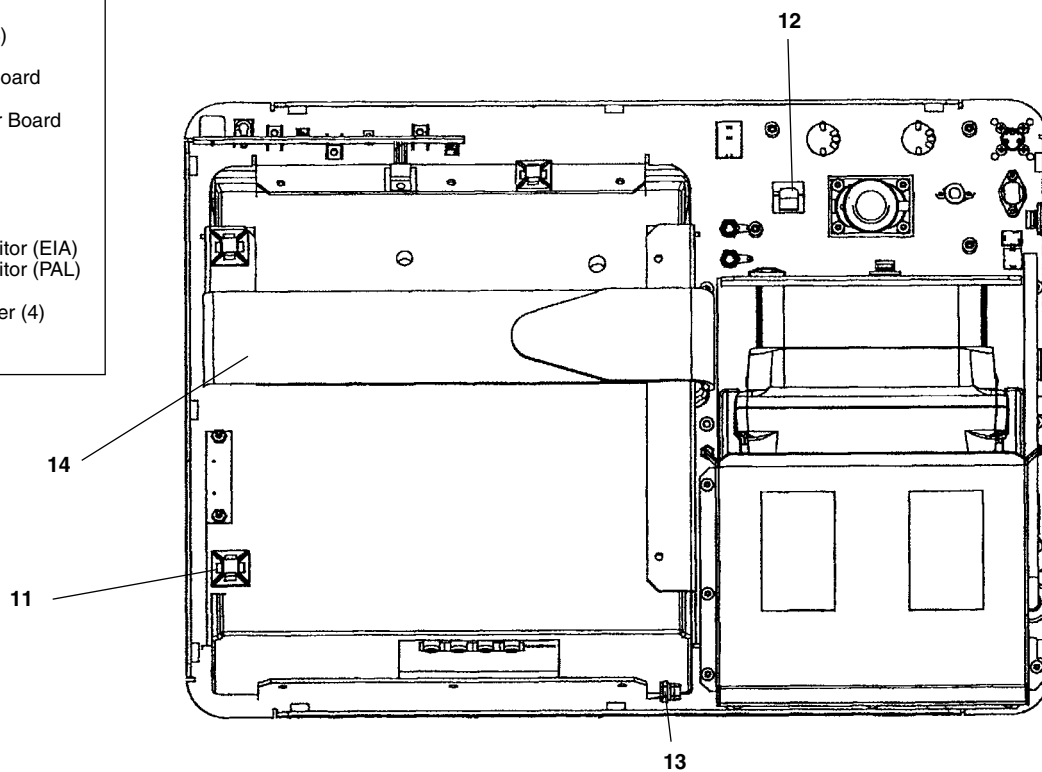
Items Not Shown

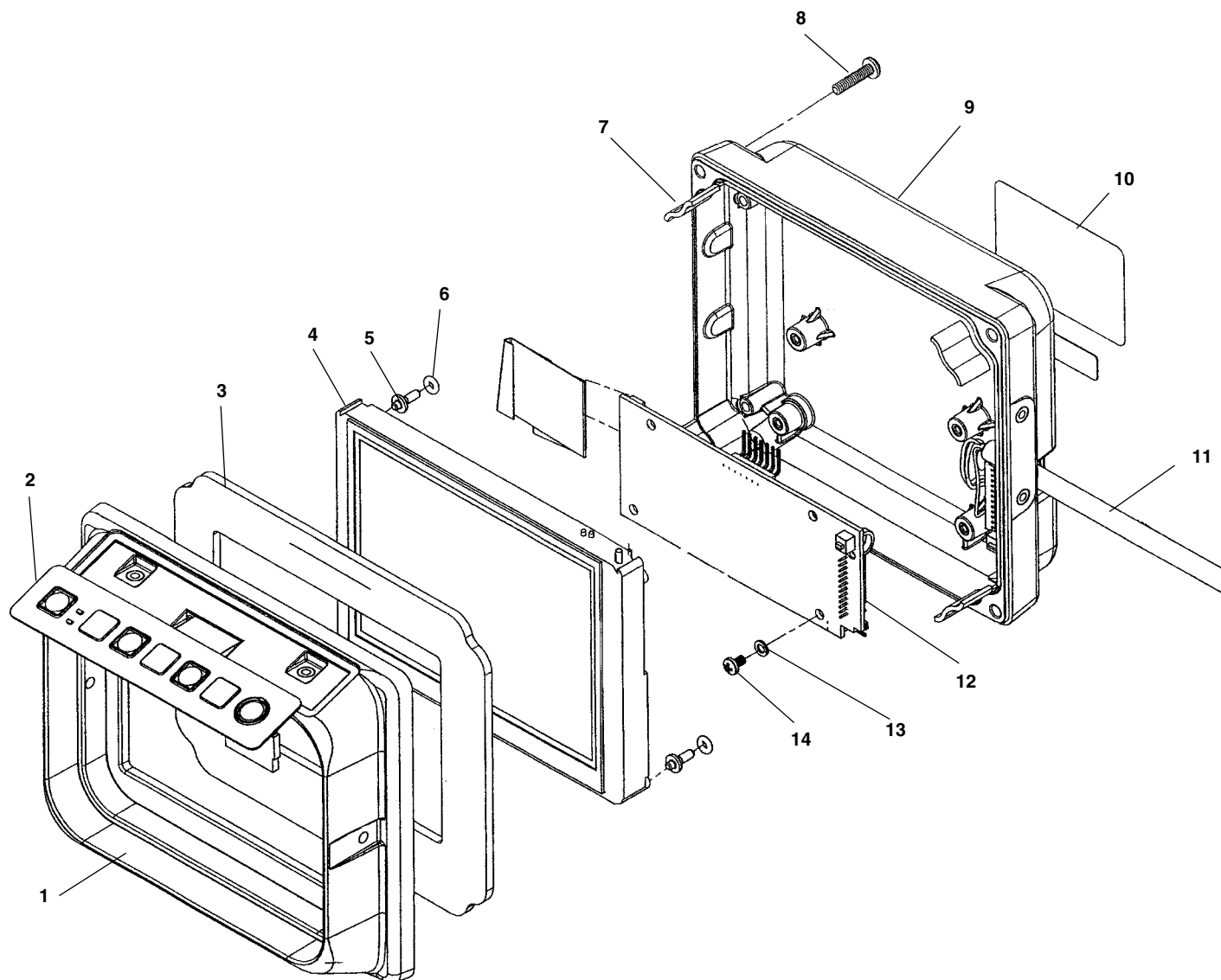
10953	AC Power Supply
91692	115V Power Cord
91697	203V Power Cord



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

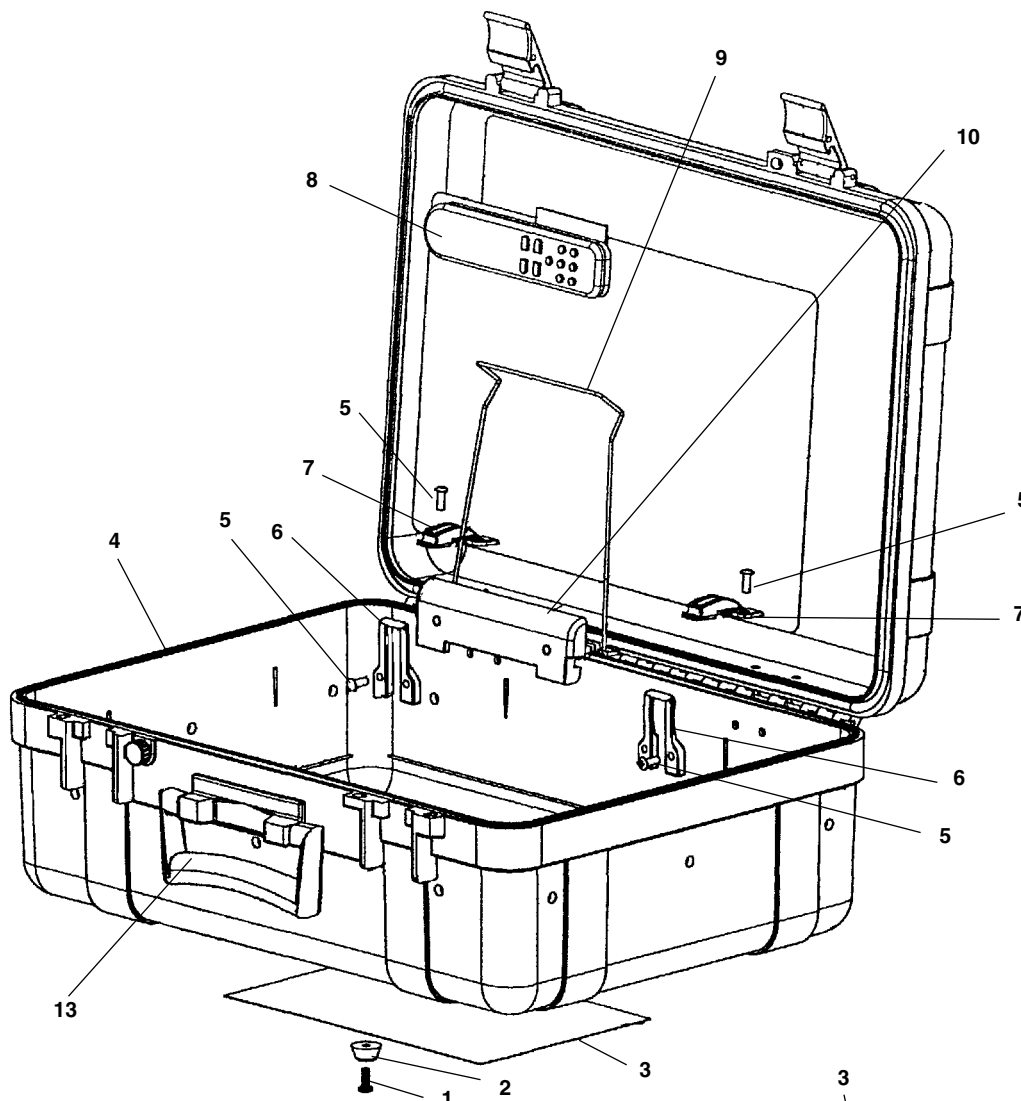
Ref. No.	Catalog No.	Description
1	88092	6 - 32 x ³ / ₁₆ " Screw (4)
2	91782	Lock Washer (4)
3	91837	Audio/Video Power Board
4	91767	4 - 40 Hex Nut (6)
5	91857	Record Detect Power Board
6	91862	4 - 40 x ³ / ₈ " Screw (2)
7	91842	Neoprene Foam
8	76857	VCR 115V
	76862	VCR 230V
9	91867	6 - 32 x ³ / ₈ " Screw (4)
10	91847	Color Tool Case Monitor (EIA)
	91852	Color Tool Case Monitor (PAL)
11	91827	Cable Tie Holder (4)
12	91832	Large Wire Clip Holder (4)
13	91877	Cord Retainer
14	91822	VCR Strap





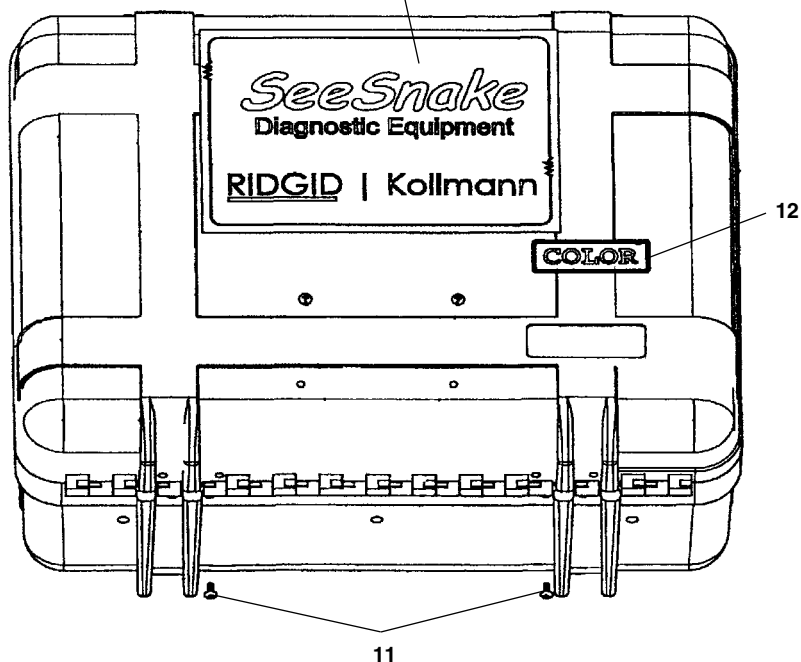
**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

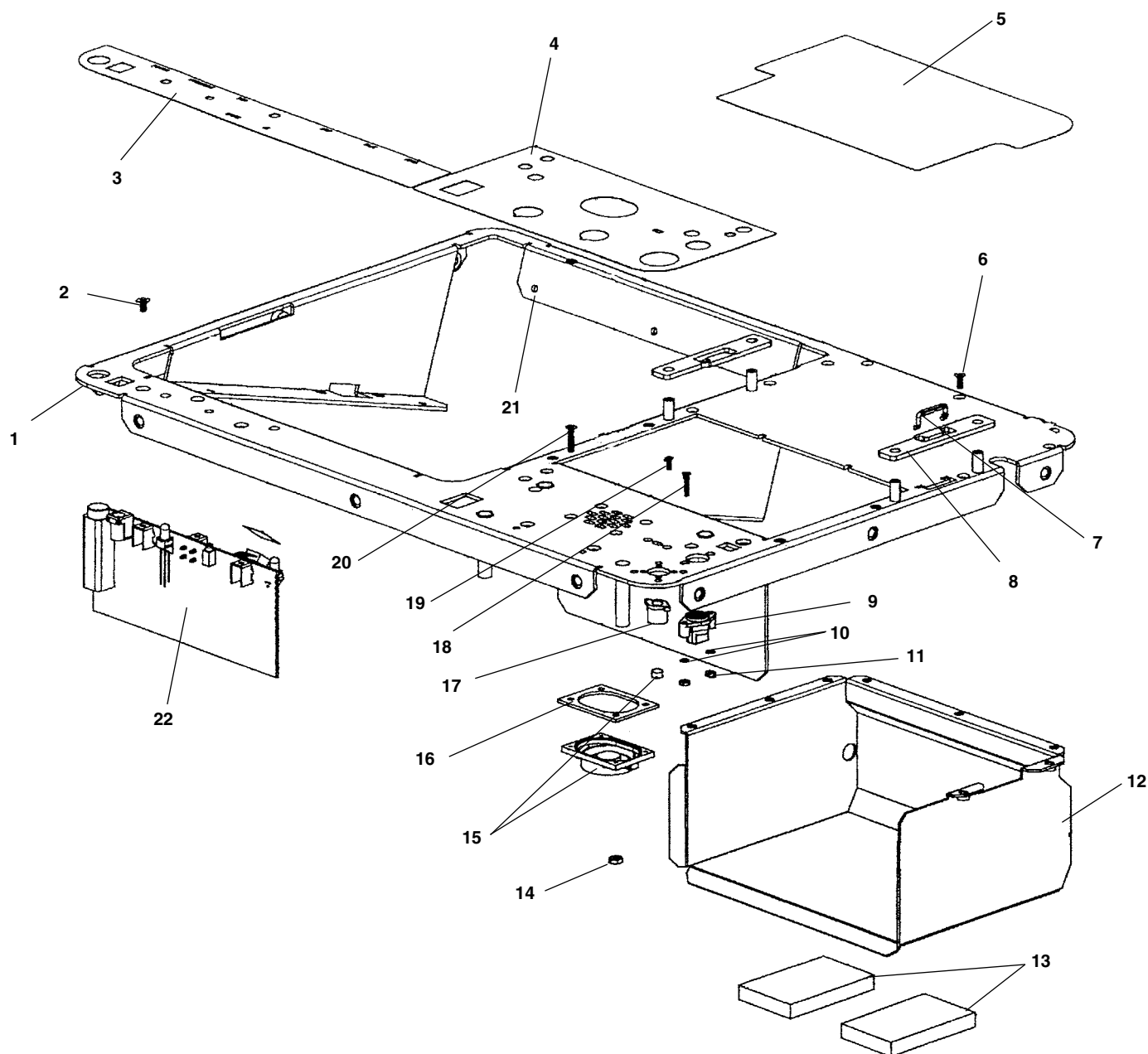
Ref. No.	Catalog No.	Description
1	91937	Monitor Front Housing
2	91927	Color Tool Case Keypad
3	91932	Color Toolbox Monitor Gasket
4	16853	Display Module (115V)
	16858	Display Module (230V)
5	91952	Mounting Pin (4)
6	91617	O-Ring (4)
7	91992	Corner Housing Pad
8	91972	6 - 32 x 5/8" Screw (4)
9	91987	Monitor Rear Housing
10	91977	Serial Label (115V)
	91982	Serial Label (230V)
11	91997	Monitor Cable
12	91962	Monitor Power Board (115V)
	91967	Monitor Power Board (230V)
13	88047	Split Lock Washer (4)
14	91957	4 - 40 x 3/16" Screw (4)



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

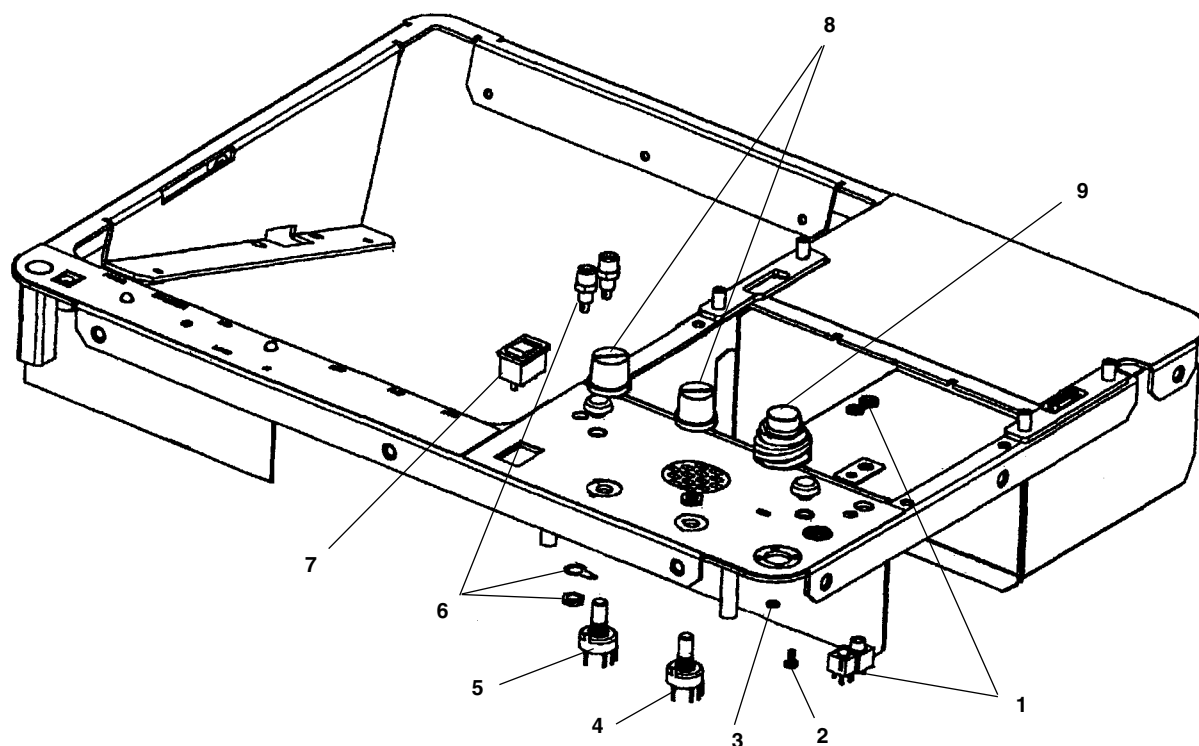
Ref. No.	Catalog No.	Description
1	91677	8 - 32 x 1/2" Screw (4)
2	91657	Rubber Foot (4)
3	91667	Large Lid Label
4	92677	Color Tool Case Only
5	91672	6 - 32 x 1/2" Nut Barrel (4)
6	91632	Clip Support (2)
7	91642	Lid Supp Tab (2)
8	86097	Remote Control
9	88147	Toolbox Bail
10	91637	Bail Cover
11	88112	6 - 32 x 5/16" Screw (10)
12	91662	Small Lid Label
13	16823	Handle Only





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

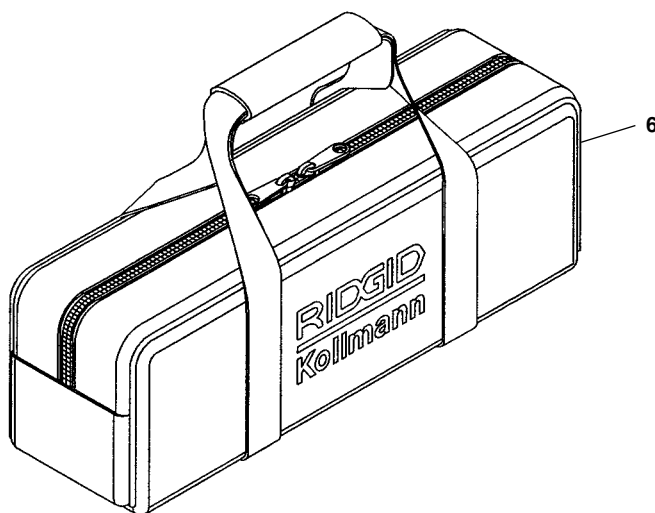
Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	91707	Color Tool Case Panel	12	91732	Battery Tray
2	91762	6 - 32 x 1/4" Flat Screw (3)	13	91737	Battery Tray Foam (2)
3	91712	VCR Panel Label	14	91767	4 - 40 Hex Nut (4)
4	91717	Front Panel Label	15	91747	Internal Mic & Speaker Assy.
5	91722	Rear Panel Label	16	91752	Speaker Gasket
6	91777	4 - 40 x 1/4" Flat Screw (8)	17	91757	Mic Holder
7	88992	Reed Switch Assembly	18	88077	2 - 56 x 1/2" Flat Screw (2)
8	91727	Monitor Spacer	19	91772	2 - 56 x 1/4" Flat Screw (2)
9	88172	Connector	20	91782	4 - 40 X 1/2" Flat Screw (4)
10	88082	Split Lock Washer (4)	21	88047	Split Lock Washer (10)
11	88087	2 - 56 Hex Nut (4)	22	91742	Fuse Board Assembly



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

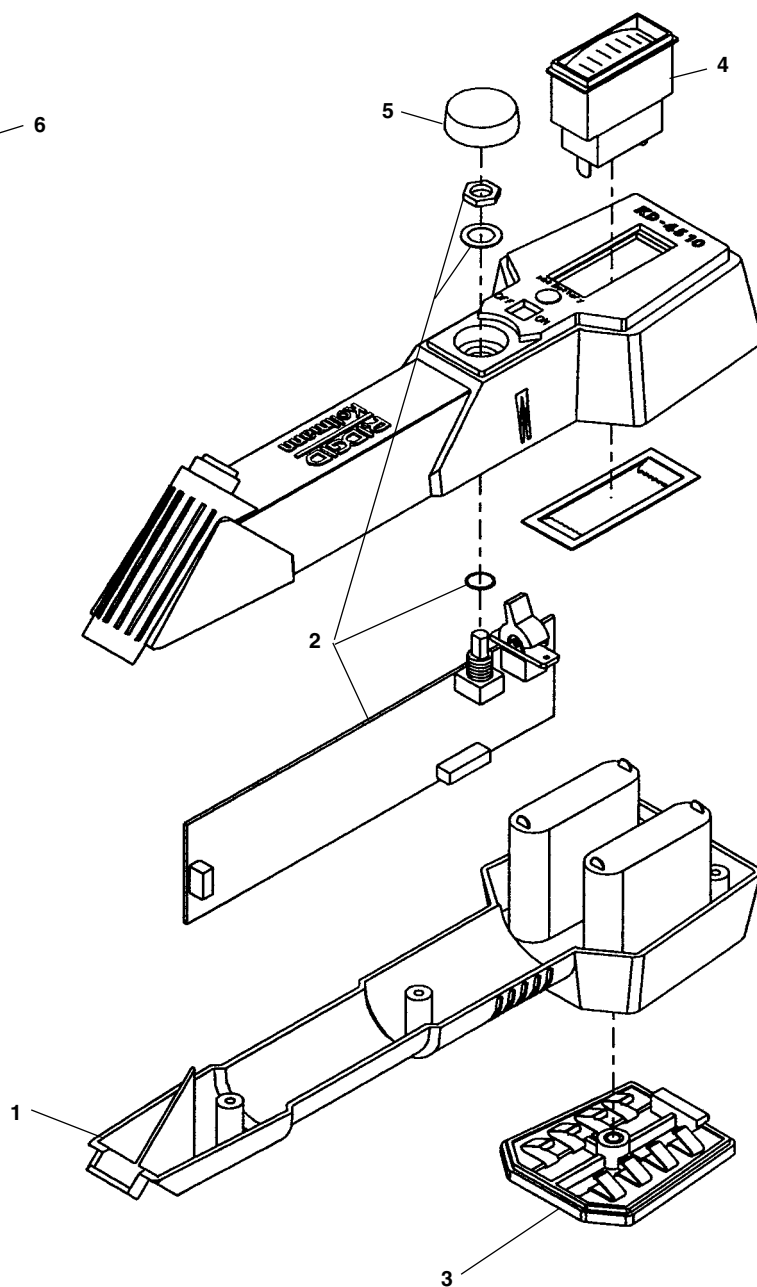
Ref. No.	Catalog No.	Description
1	91812	External Mic Speaker Assembly
2	88052	4 - 40 x 1/4" Screw (4)
3	88047	Lock Washer
4	87157	Dimmer Switch
5	87162	Volume Control Switch
6	91792	Audio/Video Dubbing Assembly
7	91797	Power Switch
8	87152	Knob w/Set Screw (2)
9	77307	Interconnect Bulkhead

Pointer Receiver

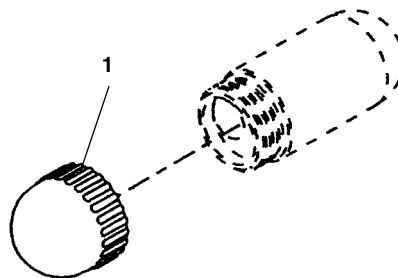


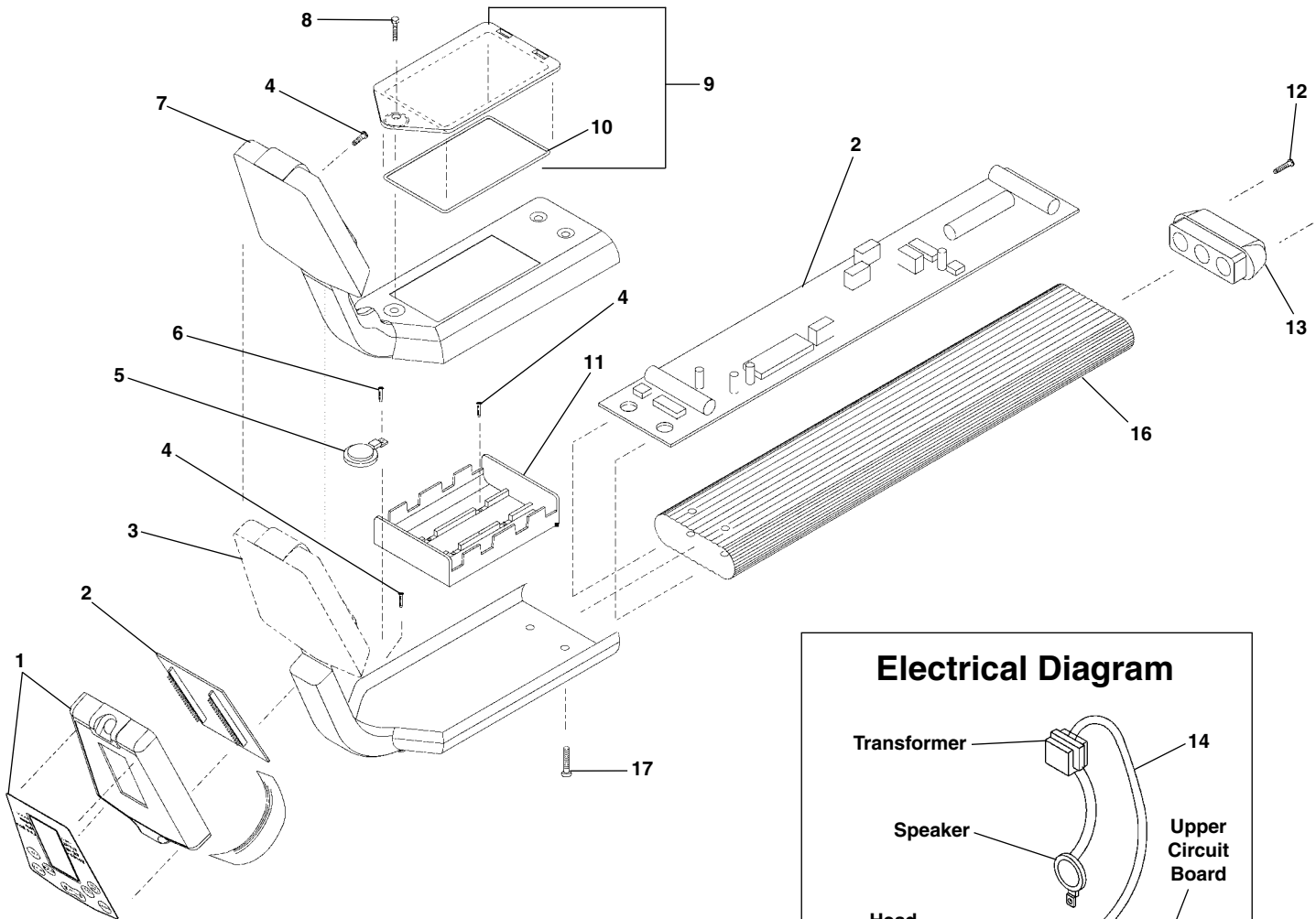
NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.

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



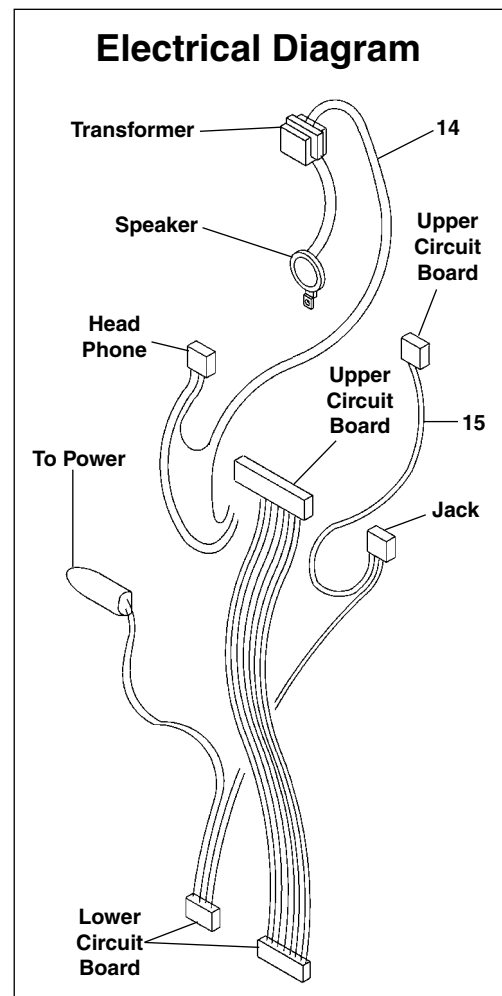
Ref. No.	Catalog No.	Description
—	67227	Remote Transmitter
1	70957	Sonde Cap

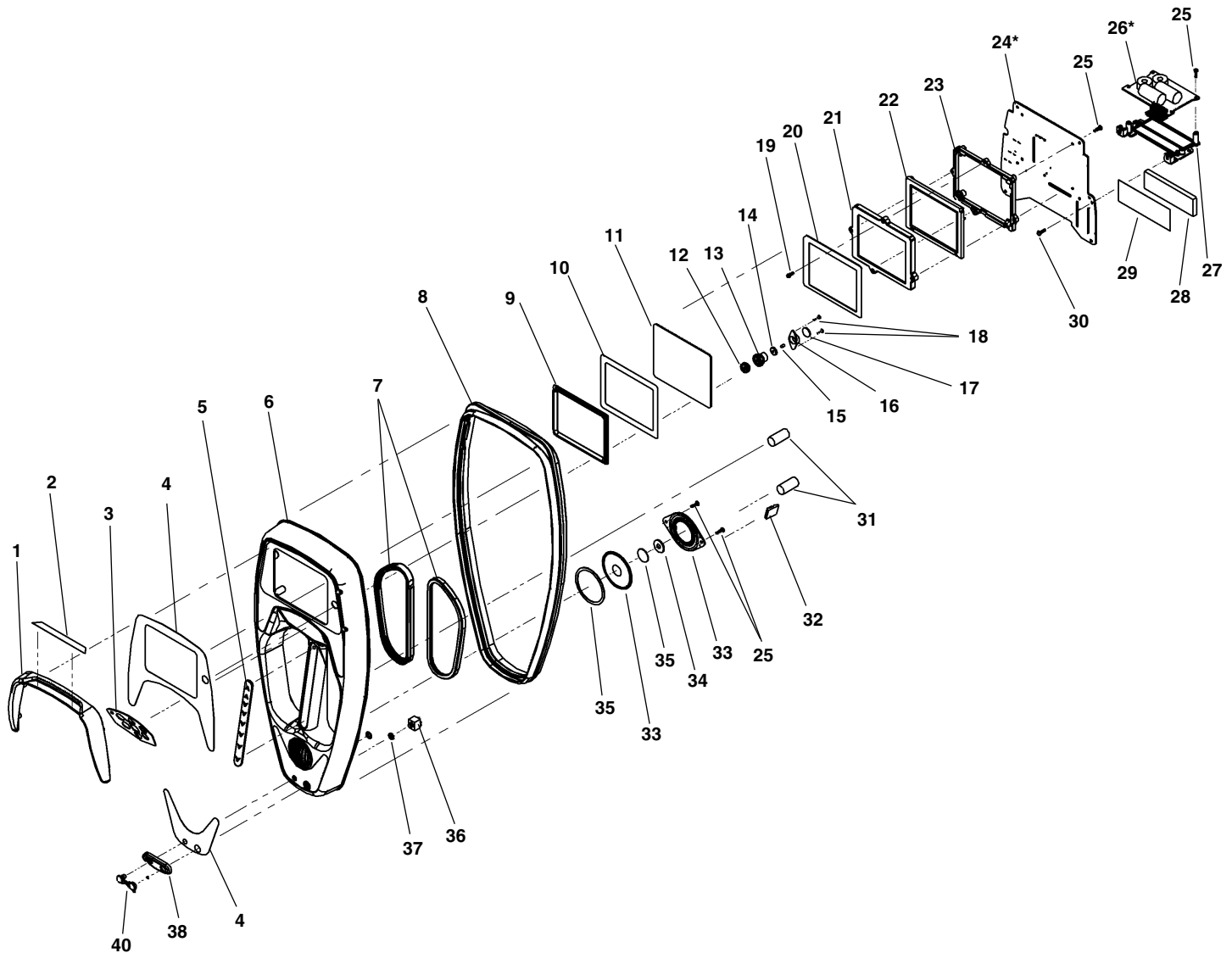




**NOTE: Order parts by Catalog Number Only.
DO NOT order by Reference Number.**

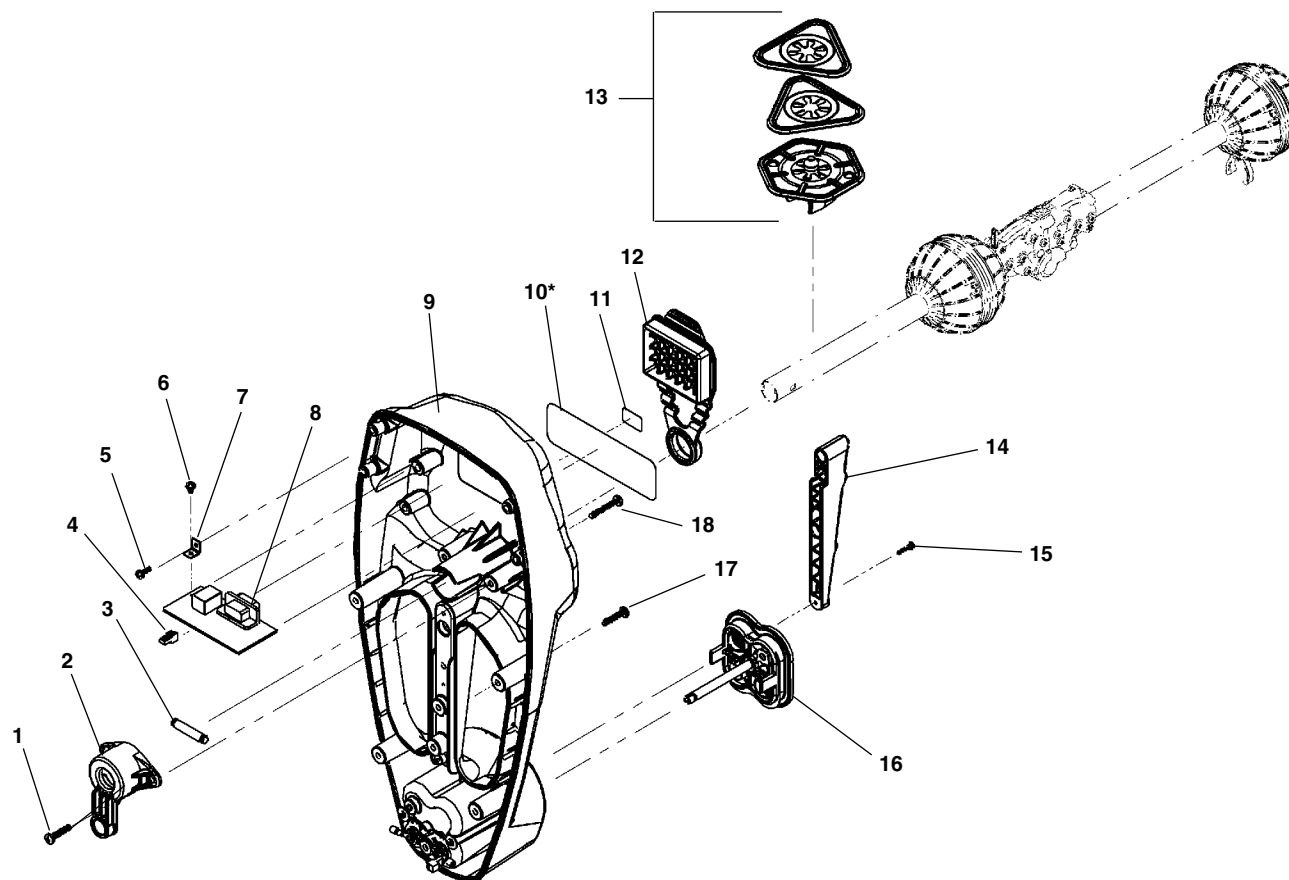
Ref. No.	Catalog No.	Description
1	92537	Keypad Console Assembly
2	92622	Power Board Assembly
3	92507	Lower Receiver Housing
4	92567	#4-24 x 5/16" Tap Screw (8)
5	92552	Internal Speaker
6	92562	#2-32 x 1/4" Tap Screw (2)
7	92512	Upper Receiver Housing
8	92582	#10-24 x 1/2" Screw
9	93597	Battery Door w/O-Ring
10	92592	O-Ring
11	92557	Battery Holder
12	92572	#6 x 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	13/16"-18 x 5/8" Button Hd. Cap Screw (2)





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

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	25793	Brow	22	25903	LCD Only
2	25798	Brow Label	23	25908	LCD Bottom Mount Bracket
3	21343	Keypad	24	*	Requires Factory Recalibration
4	25808	Label Set	25	24488	#4-20 x 3/8" Screw (7)
5	25813	Handle Insert Pad	26	*	Requires Factory Recalibration
6	25818	Top Case Only	27	25913	Power Board Mount
	25823	Top Case Assembly w/Keypad	28	25918	Foam Backing
7	25833	Handle Seals	29	25923	Polyester Tape
8	25833	Case Seal	30	25988	Screw #4-40 x 3/8" (2)
9	25838	LCD Window Gasket	31	25938	Speaker Wire Foam Brace
10	25843	LCD Window Adhesive	32	25943	Adhesive Wire Clip
11	25848	LCD Window Only	33	25948	Speaker Asm
12	25853	Level Bubble	34	25953	Flat Washer
13	25858	Level Bubble Holder	35	25958	Speaker Gasket Set
14	25863	LED Retaining Washer	36	25963	Headphone Jack
15	25868	LED	37	25968	Retaining Ring
16	25873	Level Bubble Retainer	38	25973	Headphone Jack Pad
17	25878	Level Support Pad	39	25978	Headphone Jack Cover
18	25983	Screw #2 x 3/8" (2)	Following Item Not Shown		
19	25888	Screw #4-20 x 5/16" (4)			
20	25893	LCD Support Gasket	26143		Ribbon Cable Asm
21	25898	LCD Top Mount Bracket			(Connects Keypad Ribbon To Main Circuit Board)

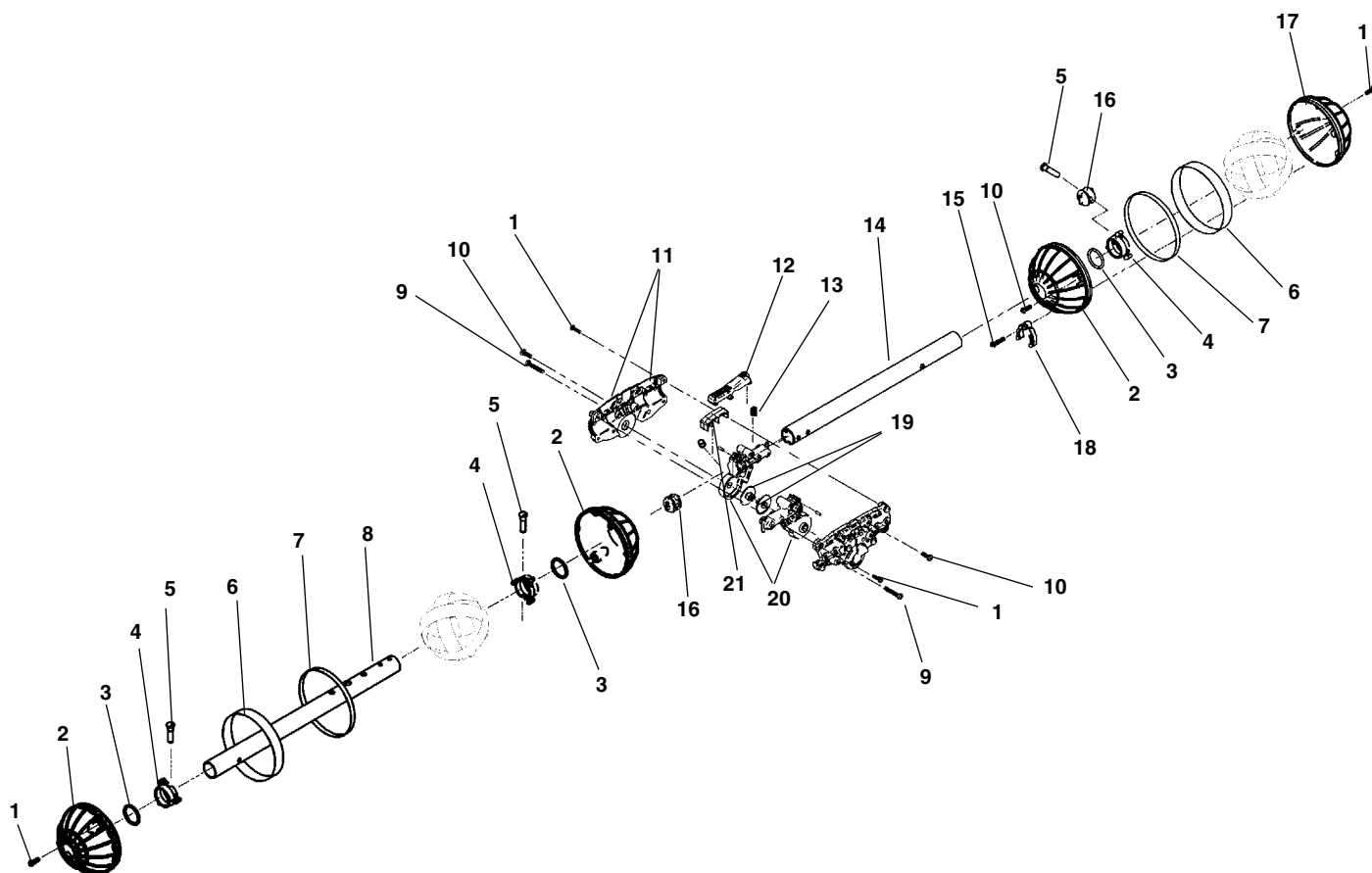


**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description
1	26063	Screw #8-16 x 3/8" (2)
2	26068	Tube Cap
3	26073	Dowel Pin
4	26078	Flat Flex Cable
5	24588	Screw #6 x 3/8" (2)
6	24593	Screw #6-32 x 3/16"
7	24583	Right Angle Mounting Bracket (2)
8	24563	Serial Board Asm
9	26083	Bottom Case Asm (Incl. Battery Contacts)
10	*	Serial Number Label (Can Only Be Applied At Mfg.)
11	26088	CE Label (Europe Only)
	26113	WEEE Label (Europe Only)
12	26093	Bottom Cover
13	12543	Set Of Marker Chips
14	26098	Bottom Handle Insert
15	24488	Screw #4 x 1/2" (3)
16	23178	Battery Cover Asm
17	26103	Screw #8 x 3/4" (9)
18	24408	Screw #8 x 1" (4)

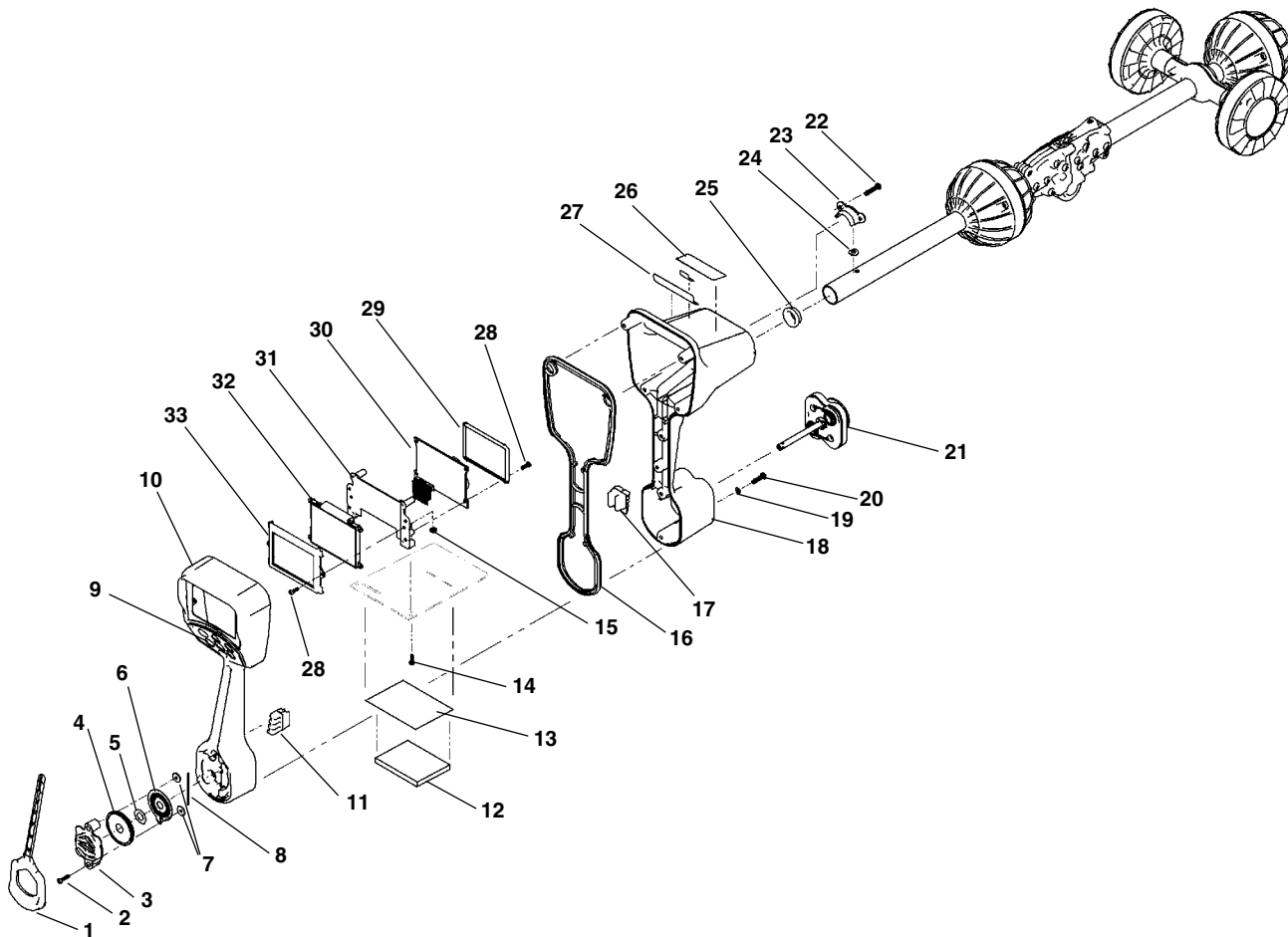
Following Item Not Shown:

26108 Flat Nylon Washer (13)
(Fits Behind Screw Shown As Ref. 17)



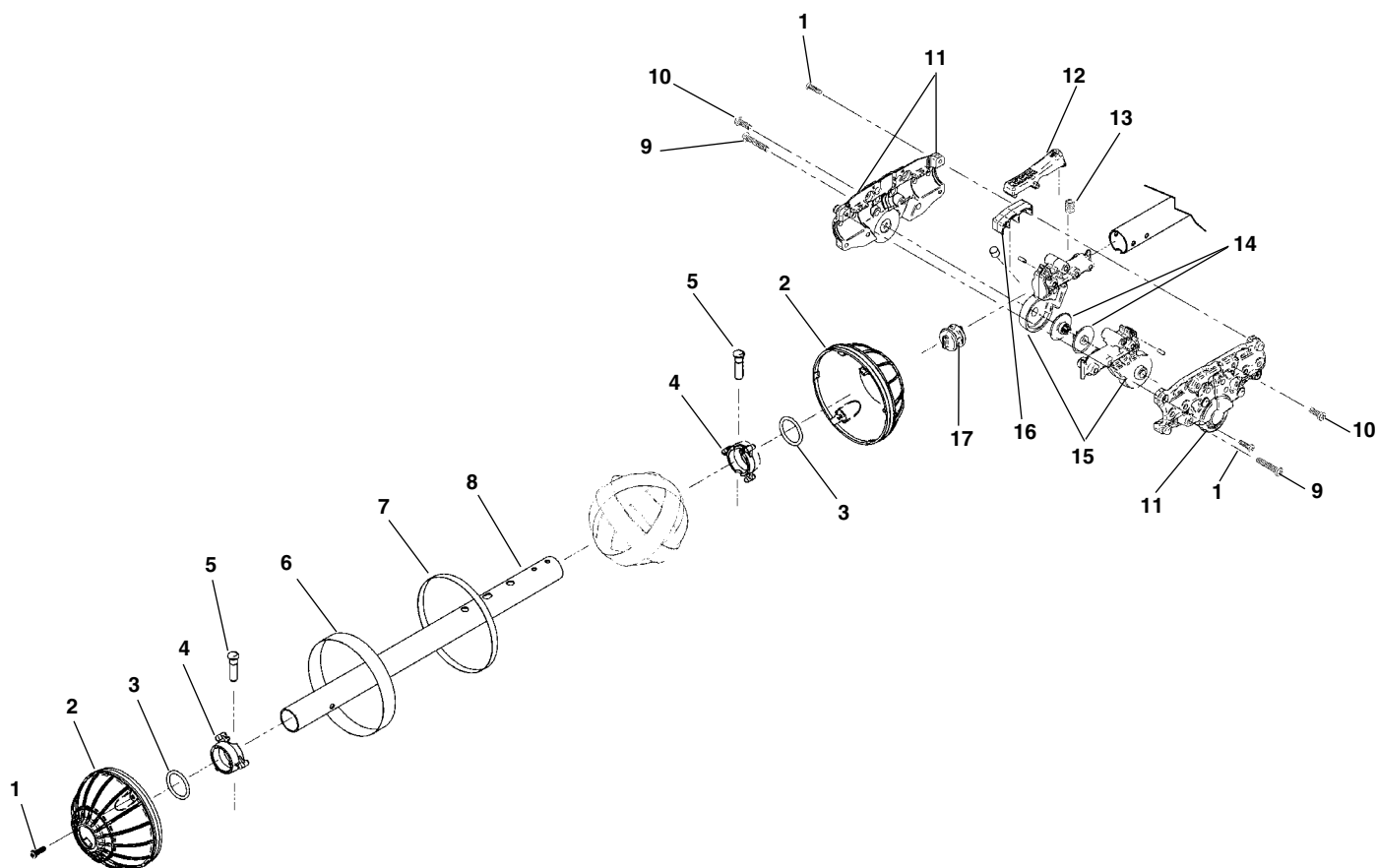
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	24413	Screw #6 x 1/2" (5)	12	23593	Pivot Latch
2	24328	Top Antenna Shell	13	23603	Latch Spring
3	24358	O-Ring	14	26133	Bottom Mast Tube
4	24318	Antenna Pin Ring	15	26128	Screw #6 x 3/4"
5	24373	Antenna Pin	16	23613	Tube Seal
6	26118	Antenna Ball Label	17	26138	Bottom Antenna Shell
7	24363	Double Sided Tape Roll	18	24333	Tube Lock
8	26123	Top Mast Tube	19	23598	Wire Reel
9	24408	Screw #8 x 1" (4)	20	23588	Center Pivot
10	24403	Screw #8 x 1/2" (16)	21	23628	Rear Pivot Cover
11	23663	Outer Pivot Asm			



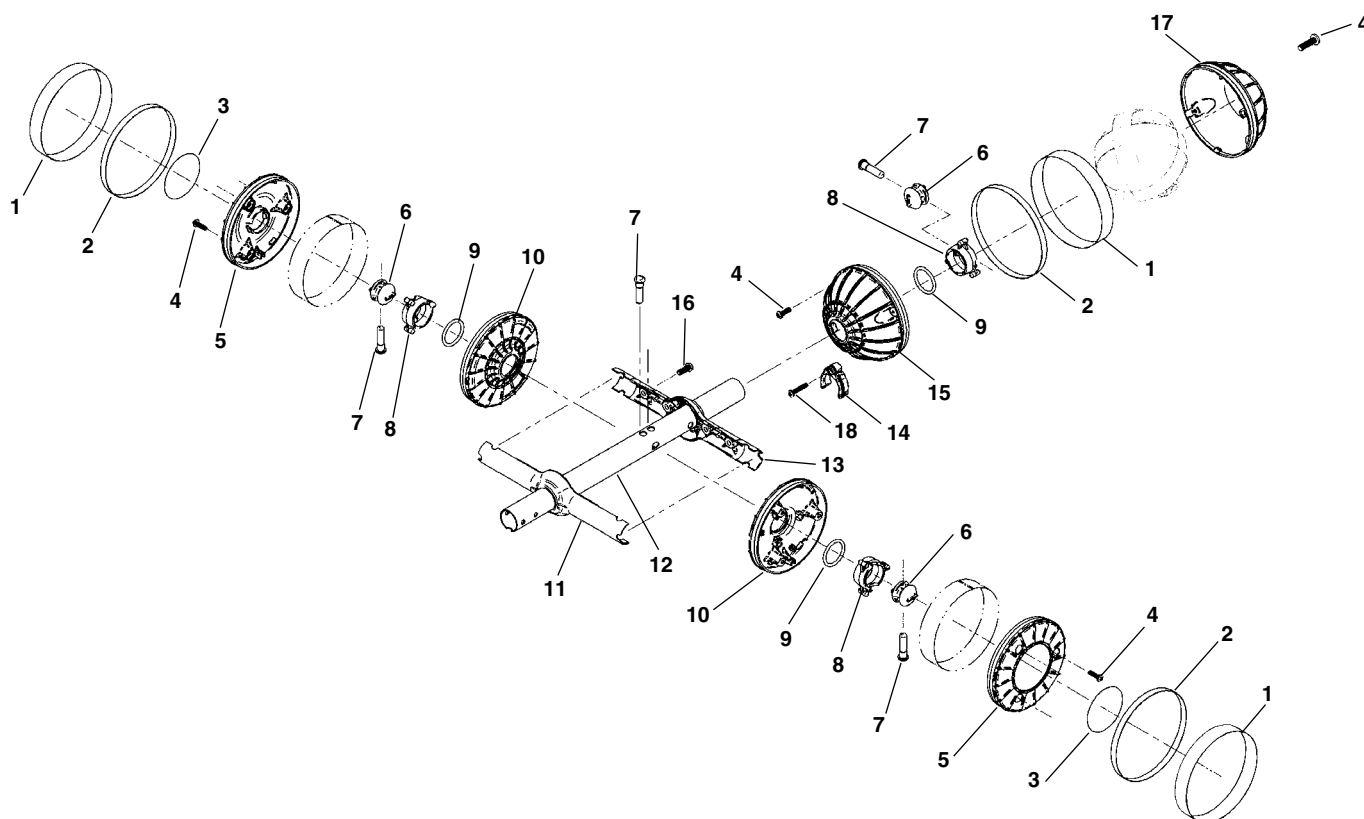
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
1	24483	Handle Pad	22	24368	Screw #6 x 3/4"
2	24488	Screw #4-20 x 1/2"	23	24538	Tube Bracket
3	24418	Speaker Gasket	24	24543	Tube Bracket Gasket
4	24493	Speaker	25	24548	Tube Seal
5	24498	Speaker Adhesive Label	26	24673	SR-20 Product Decal
6	24503	Speaker Circuit Board	27	24278	Icon Label
7	24508	Flat Washer	28	24553	Screw #4-20 x 3/8"
8	24513	Cross Pin	29	24558	Display Window
9	24428	Keypad	30	23643	LCD Display
10	24423	Top Case Only	31	23638	LCD Mounting Plate
	24518	Top Case Asm (Incl. Keypad & Battery Contacts)	32	23653	LCD Power Module
11	24298	Top Handle Seal	33	23658	LCD Gasket
12	24523	Foam, 2" Wide Sheet	Following Items Not Shown		
13	24528	Tape, 2.25" Wide Backing	—	24563	Serial Board Asm
14	24383	Screw #4-40 x 3/8"	—	24568	USB/Serial Port Cover
15	24533	Hex Nut #4-40	—	24388	Bottom Handle Grip Pad
16	24273	Housing Seal	These Parts Are Located Inside Bottom Case		
17	24293	Bottom Handle Seal	—	24583	Right Angle Mounting Bracket
18	24433	Bottom Case Only	—	24588	Screw #6 x 3/8"
19	24303	Nylon Washer	—	24593	Screw #6-32 x 3/16"
20	24288	Screw #6 x 3/8"			
21	23183	Battery Cover			



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

<u>Ref. No.</u>	<u>Catalog No.</u>	<u>Description</u>
1	24413	Screw #6 x 1/2"
2	24328	Top Antenna Shell
3	24358	O-Ring
4	24318	Antenna Pin Ring
5	24373	Pin
6	24313	Antenna Ball Label
7	24363	Double Sided Tape Roll
8	24378	Top Tube
9	24408	Screw #8 x 1"
10	24403	Screw #8 x 1/2"
11	23663	Outer Pivot Asm
12	23593	Pivot Latch
13	23603	Latch Spring
14	23598	Wire Reel
15	23588	Center Pivot
16	23628	Rear Pivot Cover
17	23613	Seal



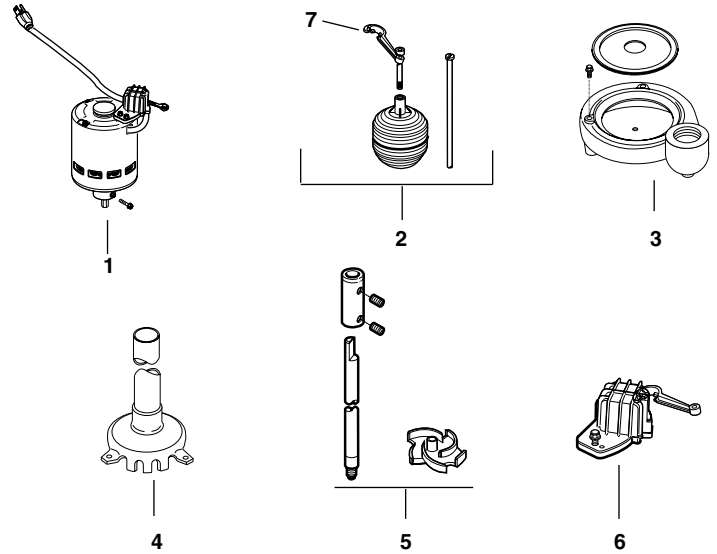
**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

Ref. No.	Catalog No.	Description
1	24313	Antenna Ball Label
2	24363	Double Sided Tape Roll
3	24478	Side Antenna Label
4	24413	Screw #6 x 1/2"
5	24343	Gradient Antenna Shell (Outer)
6	23613	Seal
7	24373	Rivet
8	24318	Antenna Pin Ring
9	24358	O-Ring
10	24348	Gradient Antenna Shell (Inner)
11	24353	Top Tube Bracket
12	24308	Bottom Tube
13	24338	Bottom Tube Bracket
14	24333	Tube Lock
15	24328	Top Antenna Shell
16	24403	Screw #8 x 1/2"
17	24323	Bottom Antenna Shell
18	24368	Screw #6 x 3/4"

Pedestal Sump Pump

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

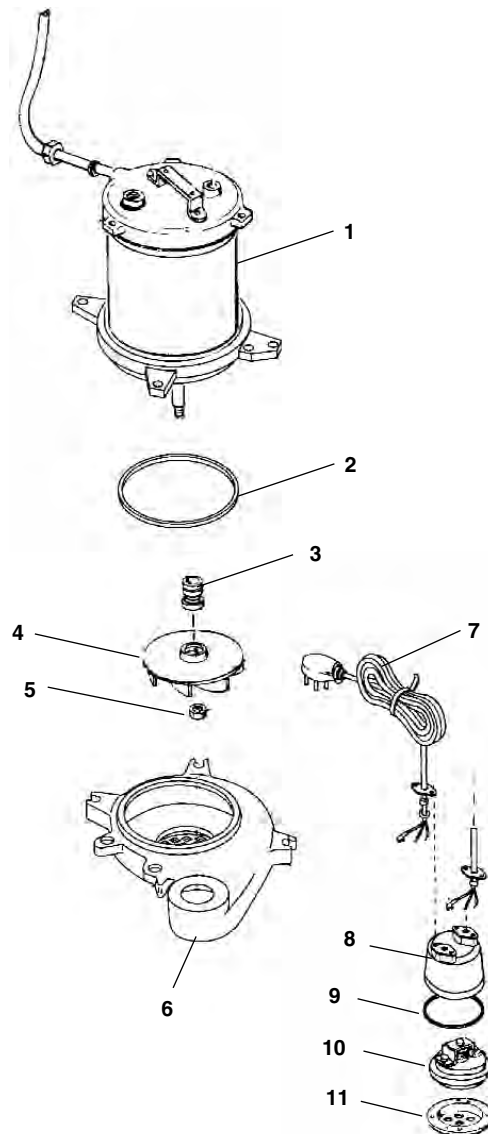
	SP330P	SP500P	
Ref. No.	Catalog No.	Catalog No.	Description
1	22813	88462	Motor Kit
2	88467	88467	Float and Guide Kit
3	22823	88472	Volute Kit
4	—	88477	Pump Top Housing with Bearing and Column
5	22828	88482	Impeller Kit
6	88487	88487	Switch Kit
7	22808	22808	Float Rod Guide



SP330P/SP-500P

Submersible Sump Pump

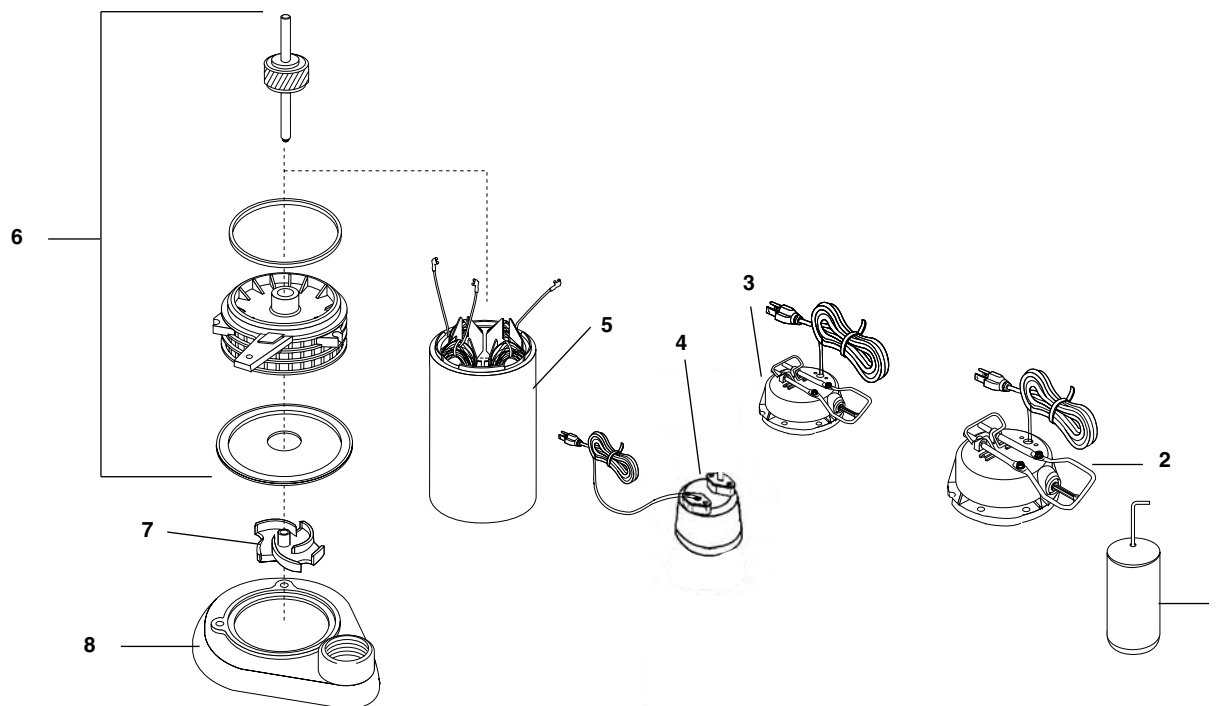
Ref. No.	Catalog No.	Description
1	90207	Motor Assembly
2	90212	Gasket
3	90217	Mechanical Seal
4	90222	Impeller
5	90227	Impeller Nut
6	90232	Volute
7	90237	Power Cord Assembly
8	90242	Switch Housing
9	90247	O-Ring Seal
10	90252	Pressure Switch
11	90257	Retainer Ring and Screen



SP-1000

Submersible Sump Pump

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

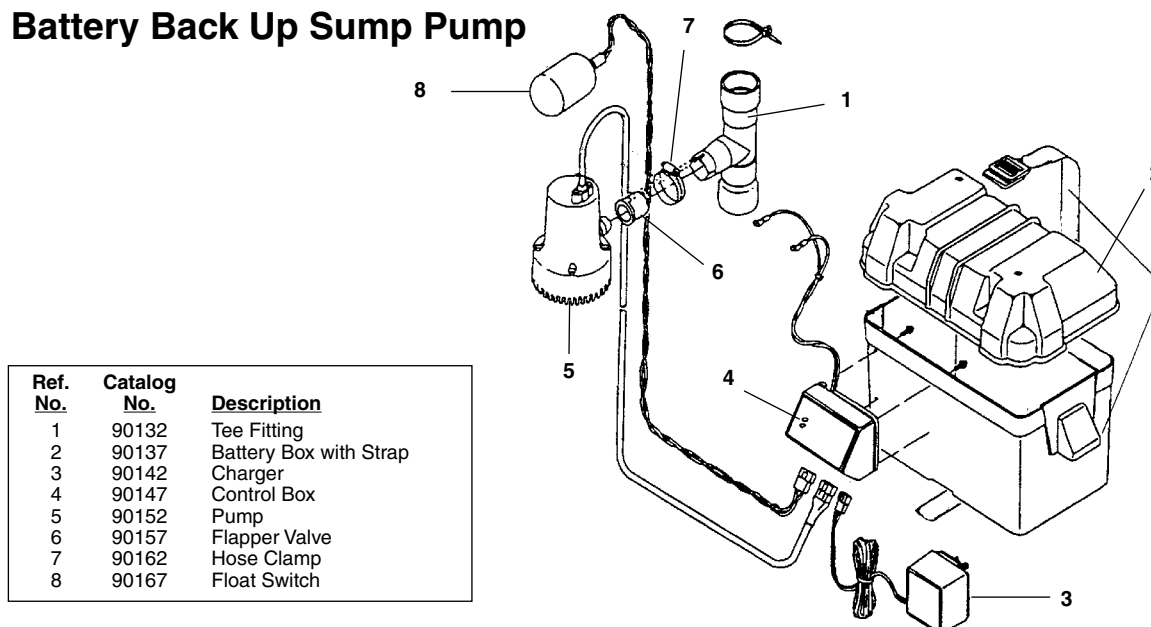


**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

	SP330	SP330D	SP500	SP500A	
Ref. No.	Catalog No.	Catalog No.	Catalog No.	Catalog No.	Description
1	88557	N/A	88557	88557	Float Kit
2	N/A	N/A	88562	N/A	Switch/Top Assembly
3	N/A	22798	N/A	N/A	Top Cover
4	N/A	22803	N/A	N/A	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

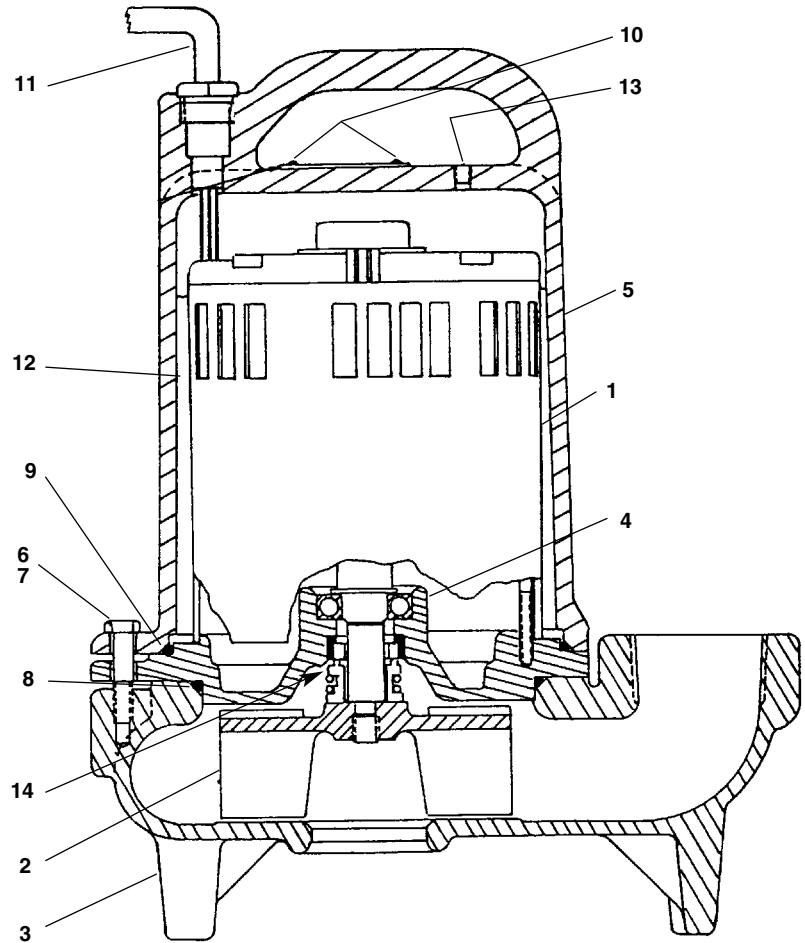


Ref. No.	Catalog No.	Description
1	90132	Tee Fitting
2	90137	Battery Box with Strap
3	90142	Charger
4	90147	Control Box
5	90152	Pump
6	90157	Flapper Valve
7	90162	Hose Clamp
8	90167	Float Switch

SEC-400 SEC-600

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

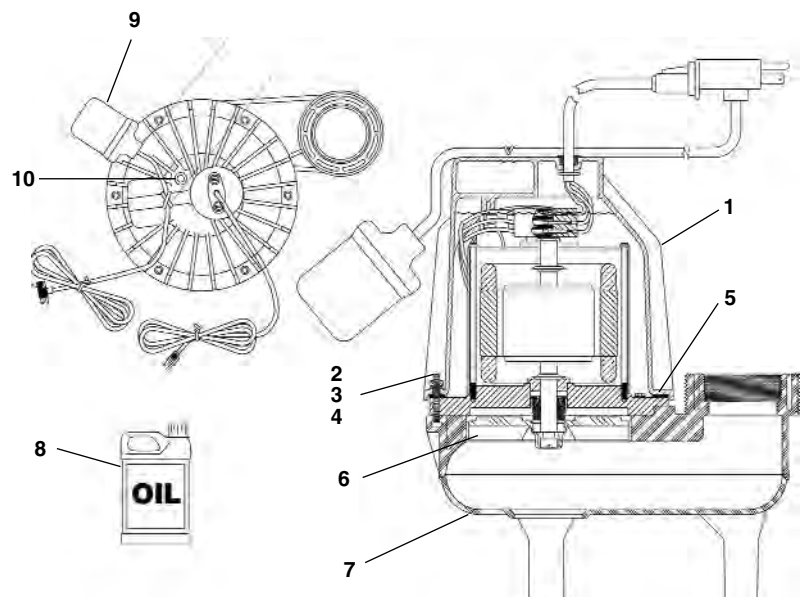
	SEC-400	SEC-600	
Ref. No.	Catalog No.	Catalog No.	Description
1	90312	90317	Motor .4 H.P. Motor .6 H.P.
2	90322	90327	Impeller .4 H.P. Impeller .6 H.P.
3	90332	90332	Volute
4	90337	90337	Seal Plate
5	90342	90342	Motor Housing
6	90347	90347	Bolt, Hx. Hd. 3/8" - 16 x .75"
7	90352	90352	Bolt, Hx. Hd. 3/8" - 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

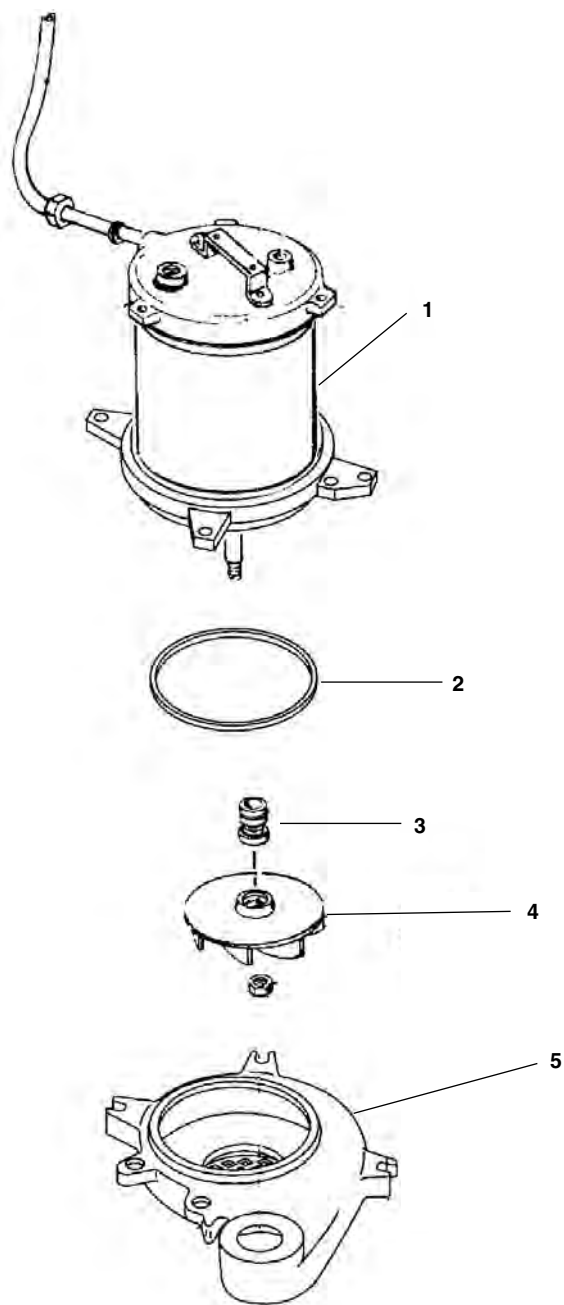


Sewage Pump

SEP-500

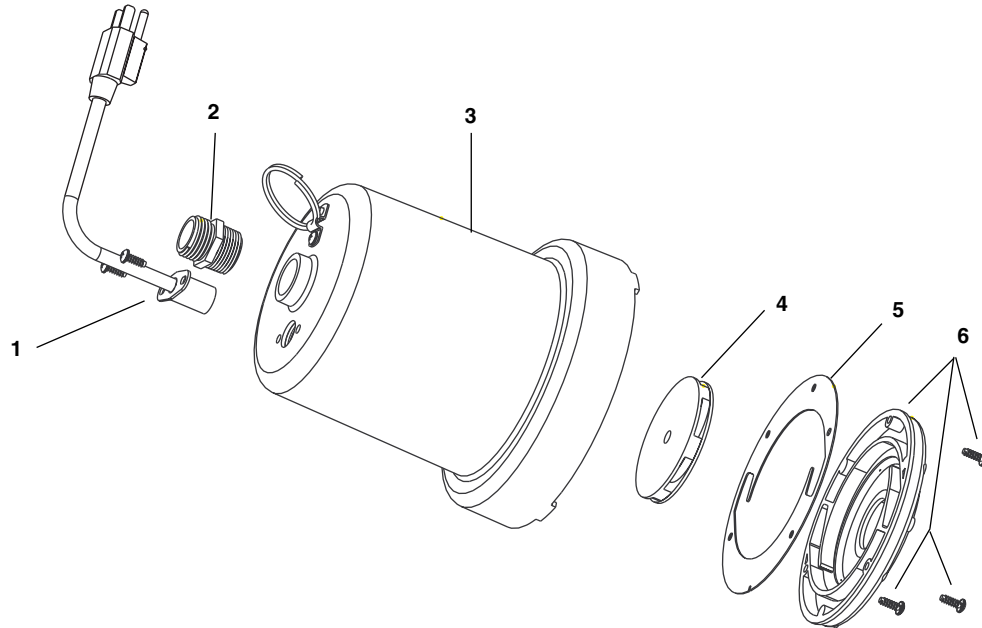
	SEP-500	
Ref. No.	Catalog No.	Description
1	90262	Motor Housing with Cord
2	90267	#10-24 Hex Nut
3	90272	#10 Split Lock Washer
4	90277	#10 Lock Washer
5	90282	Motor housing gasket
6	90287	Impeller
7	90292	Volute
8	90297	1 Pint Dielectric Oil
9	90302	Mechanical Switch
10	90307	1/4" NPT Plug





**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

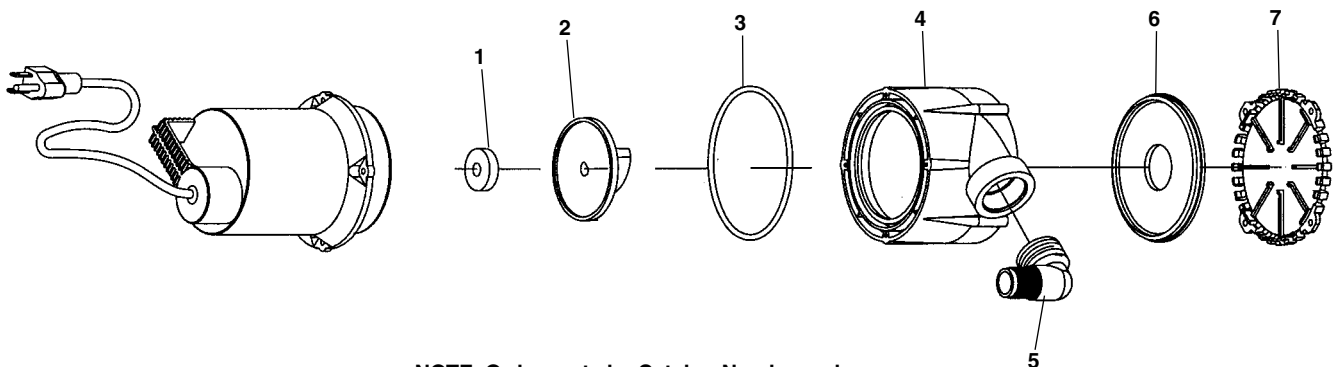


**NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.**

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
Item Not Shown		
	90202	Motor Kit

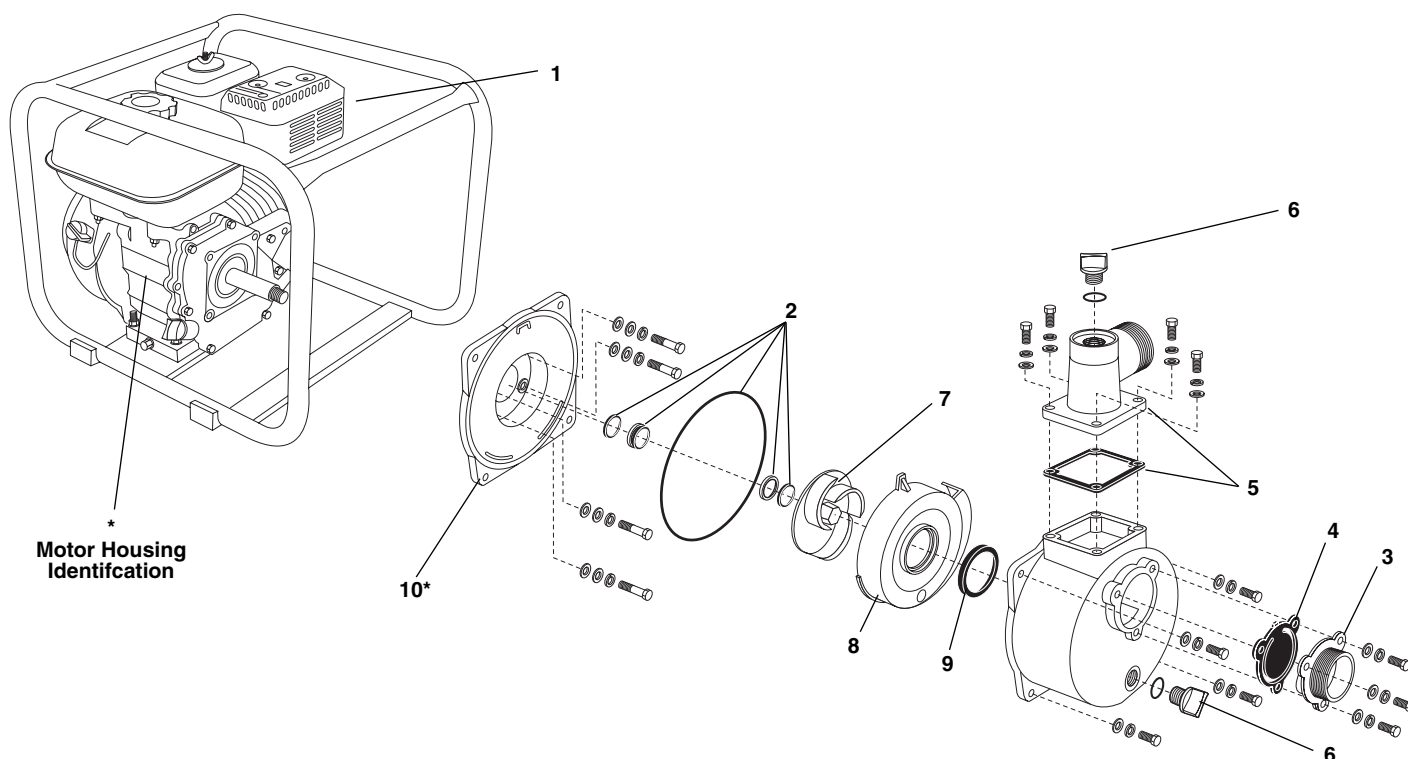
Submersible Utility Pump

TR-160



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

Ref. No.	Catalog No.	Description
1	19543	Shaft Seal
2	19548	Impeller
3	19553	O-Ring
4	19573	Volute
5	19558	Elbow Adapter
6	19563	Inlet Plate
7	19568	Base



	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
8	16743	16748	Wear Plate
9	16753	16758	Volute Seal
10*	16763	16768	Seal Plate (TX2)
11	16773	16778	Seal Plate (WKT2)

* Refer to Motor Housing Identification (TX2 or WKT2) For Proper Seal Plate. Seal Plates Are Not Interchangeable.

ALABAMA

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

Ⓢ **BIRMINGHAM**, Electronic Repair Co.
8518 First Ave. N., **35206**
(205) 836-0454

† **CALERA**, Quality Tool Repair
6180 Hwy 31, **35040**
(205) 668-3131

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
2224 N. 23rd Ave., **85009**
(602) 254-4666

TUCSON, Precision Tool & Construction
4857 East 29th St., **85711**
(520) 745-1100

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

† **ANAHEIM**, Drain Cleaner Service
J. M. McKinney Co.
2911 East Miraloma Ave. Unit 4, **92806**
(800) 821-7275

ANAHEIM, Westside Building Material
1111 East Howell Ave., **92815**
(714) 385-1644

BAKERSFIELD, Bakersfield Tool Repair
424 1/2 - 24th St., **93301**
(661) 327-2820

CORONA, We-do Equipment Repair
299 East Harrison, **92879**
(909) 808-9167

FRESNO, Fresno Tool Repair,
3351 W. Sussex Way, **93722**
(559) 229-9600

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

LOS ANGELES, Minit Tool Repair,
4170 E. Washington Blvd., **90023**
(323) 264-7006

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

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

† **PANORAMA CITY**, Drain Cleaner Service,
J.M. McKinney Co.
14624 Titus St., **91402**
(818) 786-2527

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

SAN DIEGO, Tool Depot of San Diego
3799 Gaines Street, **92110**
(619) 220-7111

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

COLORADO

† **DENVER**, Aviation Industrial
3900 Ulster Street, **80207**
(303) 355-2391

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

CONNECTICUT

EAST HARTFORD, Jossam Tool Repair
411 Burnham St., **06108**
(860) 289-4064

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

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

Ⓢ SeeSnake ONLY

† Authorized SeeSnake Repair Center

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

FLORIDA

HOLLYWOOD, National Tool Supply
5725 W. Hallandale Beach Blvd., **33023**
(800) 432-5078

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

ORLANDO, Contractors Tool Service
5409 Edgewater Drive, **32810**
(407) 292-2808

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

† **RIVIERA BEACH**, Action Bolt & Tool Co.
2051 Blue Heron Blvd., **33404**
(561) 845-8800 (800) 423-0700

GEORGIA

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

HAWAII

† **HONOLULU**, Lynch Co., Inc.
841 Pohukaina Street, B-1, **96813**
(808) 596-8870

IDAHO

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

ILLINOIS

ADDISON, Hugo Equipment Repair
415 W. Kay Ave., **60101**
(630) 628-7977

† **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, Bailey Tool & Supply
5716 East Morgan Ave., **47715**
(502) 635-6470

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**
(260) 484-8566 (800) 589-5353

FORT WAYNE,
Wagner Electric of Fort Wayne, Inc.
3610 N. Clinton St., **46805**
(260) 484-5532

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

IOWA

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

DES MOINES, Tool House, Inc.
1415 Second Ave., **50314**
(515) 244-1516

KANSAS

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

KENTUCKY

LEXINGTON, City Electric Motor Co.
631 Kennedy Rd., **40511**
(859) 254-5581

LEXINGTON, Jiffy Tool Repair
2433 Fortune Drive, **40509**
(859) 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**
(225) 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

MAINE

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

MARYLAND

† **BALTIMORE**, Tool Hospital #211
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

HOLYOKE, Reliance Electric Service Co.,
573 South Canal Street, **01040**
(413) 533-3557

Ⓢ **PLAINVILLE**, Utilitronics

2 High Street, **02762**
(800) 245-8850

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

KALAMAZOO,
Kalamazoo Electric Motor Inc.
414 Mills Street, **49001**
(269) 345-7802

KINGSFORD, IDG
1021 Pyle Drive, **49802**
(906) 774-3991

MINNESOTA

† **ST. PAUL**, Total Tool Supply Company
315 N. Pierce St., **55104**
(651) 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**,
Cable Center, Drain Cleaner Service
8318 Olive Blvd., **63132**
(314) 993-3099 (800) 257-7209

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

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**, Sewer Cable Equipment Co.
6230 Greyhound Blvd. A, **89122**
(702) 433-5401

(Kollmann Only)

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

(RENO) SPARKS, Industrial Equipment Co.
310 Kresge Lane, **89431**
(775) 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, Power Tool & Saw
7136 Jefferson St. N.E. **87109**
(505) 856-2158

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) HUNTINGTON STATION,
A&T Power Tools
515 East Jericho Turnpike, **11746**
(631) 271-2141

(LONG ISLAND) WANTAGH,
Ace Tool Repair, Inc.
2201 Wantagh Ave., **11793**
(516) 783-8899

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

† **(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 & Warshaw
57-22 49th Street, **11378-0039**
(718) 937-9500 (888) 937-9500

† **ROCHESTER**, Hanes Supply Co.
10 Cairn Street, **14611**
(585) 235-0160

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

NORTH CAROLINA

BELMONT, ENSCO
2100 The Oaks Pkwy, **28012**
(704) 398-5600

OHIO

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

CLEVELAND, A & A Hydraulic Repair Co.
5301 W. 161 St., **44142**
(216) 362-4000

† **(CLEVELAND) ELYRIA**,
RIDGID Factory Service Center
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)

(TOLEDO) NORTHWOOD,
A&C Tool & Equipment Repair
6949 Wales Rd., Suite 5, **43619**
(419) 662-6560

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

OKLAHOMA

† **OKLAHOMA CITY**,
Central Oklahoma Winnelson
5037 N. 10th Street, **73127**
(405) 947-8761

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

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

OREGON

BEAVERTON, Karn Repair Service
1800 NW 169th Place, **97006**
(503) 228-8313

EUGENE, Eugene Power Tool
245 Van Buren St., **97404**
(541) 232-5081

PORTLAND, General Tool & Supply
2705 NW Nicolai St., **97210**
(503) 226-3411

† **PORTLAND**, Trade Tool & Supply Co.
2364 NW York St., **97210**
(503) 221-8665

PENNSYLVANIA

† **(HARRISBURG) MECHANICSBURG**,
Power Tool Service Company
101 Westley Drive, **17055**
(717) 766-7636 (800) 382-1311

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

(PHILADELPHIA) CHESTER,
Jekk Tools & Fasteners
729 West 2nd Street, **19013**
(610) 874-6200

PITTSBURGH, CTS Incorporated
3500 Liberty Ave., **15201**
(412) 681-6673

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

PITTSBURGH, Scott Electric Co.
39th & Butler Street, **15201**
(412) 687-5005

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

PUERTO RICO

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

RIO PIEDRAS, Ferreteria 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

WEST COLUMBIA, Mann Tool & Supply
802 Chris Drive, **29169**
(803) 252-7777 (800) 356-6266

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

Ⓢ **SUMTER**, Jet Vac Sewer Equipment
5746 Broad Street, **29154**
(803) 494-4430

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

NASHVILLE, Reeves Power Tools & Repair
108 Lafayette St., **37210**
(615) 256-8817

TEXAS

† **AUSTIN**, Austin Tool, Inc.
210 Industrial Blvd., **78745**
(512) 447-4905

CORPUS CHRISTI, Corpus Christi Power
Tool & Repair
3701 Agnes Street, **78405**
(361) 883-1117

CORPUS CHRISTI, Bush Hydraulics
2012 N. Lexington Blvd., **78409**
(316) 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, Ace Specialties Inc.
302 Industrial, **79763**
(915) 332-0691

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

Ⓢ **ROCKWALL**, Utility Equ. Tech. Inc.
382 Stevens Road, **75032**
(972) 771-8958

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

† **SAN ANTONIO**, Tool Mart Inc.
10568 Sentinal Street, **78217**
(210) 655-6116

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**, Brock Tool & Supply
2500 Glen Center St., **23223**
(804) 648-7004

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.
305 Jacobson Drive, **25159**
(304) 755-5030

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

WISCONSIN

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

† **PEWAUKEE**, Jensen Equipment Co., Inc.
N.27 W23015 Roundy Dr., **53072**
(262) 547-5548 (800) 875-8875

CANADA

ALBERTA

CALGARY, Power Tool Clinic LTD.
2520 - 23rd St. NE Bay 6, **T2E 8L2**
(403) 276-4633

EDMONTON, Century Vallen
4810 - 92 Ave., **T6B 2X4**
(780) 468-3366

† **EDMONTON**, Celtic Industrial Tools Ltd.
5736 - 103A 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**, Wolseley Industrial Products
1300 St. Matthews Ave., **R3G 3K4**
(204) 786-7861

NOVA SCOTIA

DARTMOUTH, K&D Pratt Ltd.
617 Windmill Road, **B2Y 3Y3**
(902) 468-1955

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

PRINCE EDWARD ISLAND

CHARLOTTETOWN, CTF Supply
3 Macausland Road, **C1A 8C1**
(902) 368-1132

QUEBEC

QUEBEC CITY, Clinique D'Outils 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
1213 Rue Tellier, **H7C 2H1**
(450) 664-1111 or 1-800-363-7956

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

Ⓢ SeeSnake ONLY

† Authorized SeeSnake Repair Center

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.



Technical Service: 800-519-3456

(Product Application Assistance)

**Visit our web sites: www.ridgid.com
and www.ridgidparts.com**

Ridge Tool Company

400 Clark Street
Elyria, Ohio 44035-6001

**Ce qui est couvert**

Les outils RIDGE® sont garantis contre tous vices de matériaux et de main d'œuvre.

Durée de couverture

Cette garantie est applicable durant la vie entière de l'outil RIDGE®. La couverture cesse dès lors que le produit devient inutilisable pour raisons autres que des vices de matériaux ou de main d'œuvre.

Pour invoquer la garantie

Pour toutes réparations au titre de la garantie, il convient d'expédier le produit complet en port payé à la RIDGE TOOL COMPANY, Elyria, Ohio, ou bien le remettre à un réparateur RIDGID® agréé. Les clés à pipe et autres outils à main doivent être ramenés au lieu d'achat.

Ce que nous ferons pour résoudre le problème

Les produits sous garantie seront à la discrétion de RIDGE TOOL, soit réparés ou remplacés, puis réexpédiés gratuitement ; ou si, après trois tentatives de réparation ou de remplacement durant la période de validité de la garantie le produit s'avère toujours défectueux, vous aurez l'option de demander le remboursement intégral de son prix d'achat.

Ce qui n'est pas couvert

Les défaillances dues au mauvais emploi, à l'abus ou à l'usure normale ne sont pas couvertes par cette garantie. RIDGE TOOL ne sera tenue responsable d'aucuns dommages directs ou indirects.

L'influence de la législation locale sur la garantie

Puisque certaines législations locales interdisent l'exclusion des dommages directs ou indirects, il se peut que la limitation ou exclusion ci-dessus ne vous soit pas applicable. Cette garantie vous donne des droits spécifiques qui peuvent être éventuellement complétés par d'autres droits prévus par votre législation locale.

Il n'existe aucune autre garantie expresse

Cette GARANTIE PERPETUELLE INTEGRALE est la seule et unique garantie couvrant les produits RIDGID®. Aucun employé, agent, distributeur ou tiers n'est autorisé à modifier cette garantie ou à offrir une garantie supplémentaire au nom de la RIDGE TOOL COMPANY.

Qué cubre

Las herramientas RIDGID están garantizadas contra defectos de la mano de obra y de los materiales empleados en su fabricación.

Duración de la cobertura

Esta garantía cubre a la herramienta RIDGID durante toda su vida útil. La cobertura de la garantía caduca cuando el producto se torna inservible por razones distintas a las de defectos en la mano de obra o en los materiales.

Cómo obtener servicio

Para obtener los beneficios de esta garantía, envíe mediante porte pagado, la totalidad del producto a RIDGE TOOL COMPANY, en Elyria, Ohio, o a cualquier Servicentro Independiente RIDGID. Las llaves para tubos y demás herramientas de mano deben devolverse a la tienda donde se adquirieron.

Lo que hacemos para corregir el problema

El producto bajo garantía será reparado o reemplazado por otro, a discreción de RIDGE TOOL, y devuelto sin costo; o, si aún resulta defectuoso después de haber sido reparado o sustituido tres veces durante el período de su garantía, Ud. puede optar por recibir un reembolso por el valor total de su compra.

Lo que no está cubierto

Esta garantía no cubre fallas debido al mal uso, abuso o desgaste normal. RIDGE TOOL no se hace responsable de daño incidental o consiguiente alguno.

Relación entre la garantía y las leyes locales

Algunos estados de los EE.UU. no permiten la exclusión o restricción referente a daños incidentales o consiguientes. Por lo tanto, puede que la limitación o restricción mencionada anteriormente no rija para Ud. Esta garantía le otorga derechos específicos, y puede que, además, Ud tenga otros derechos, los cuales varían de estado a estado, provincia a provincia o país a país.

No rige ninguna otra garantía expresa

Esta GARANTIA VITALICIA es la única y exclusiva garantía para los productos RIDGID. Ningún empleado, agente, distribuidor u otra persona está autorizado para modificar esta garantía u ofrecer cualquier otra garantía en nombre de RIDGE TOOL COMPANY.



EMERSON
Professional Tools

EMERSON. CONSIDER IT SOLVED.™