



SECTION III – Parts Lists



FOR MODELS
E-16 (And Old Style V-16)
V-16
V-24
VH-24
V-40
VH-40

MODEL: _____

SERIAL NUMBER: _____

DATE PURCHASED: _____

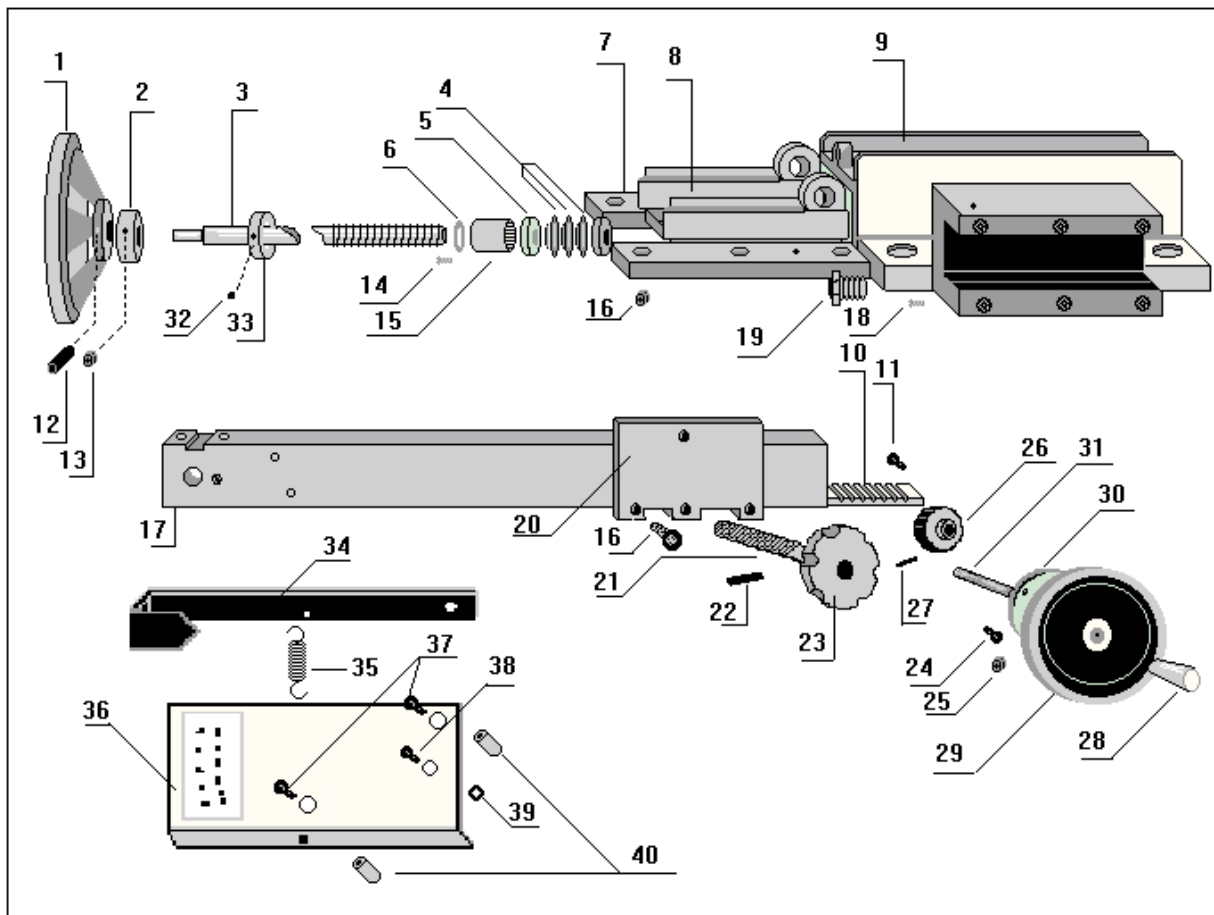
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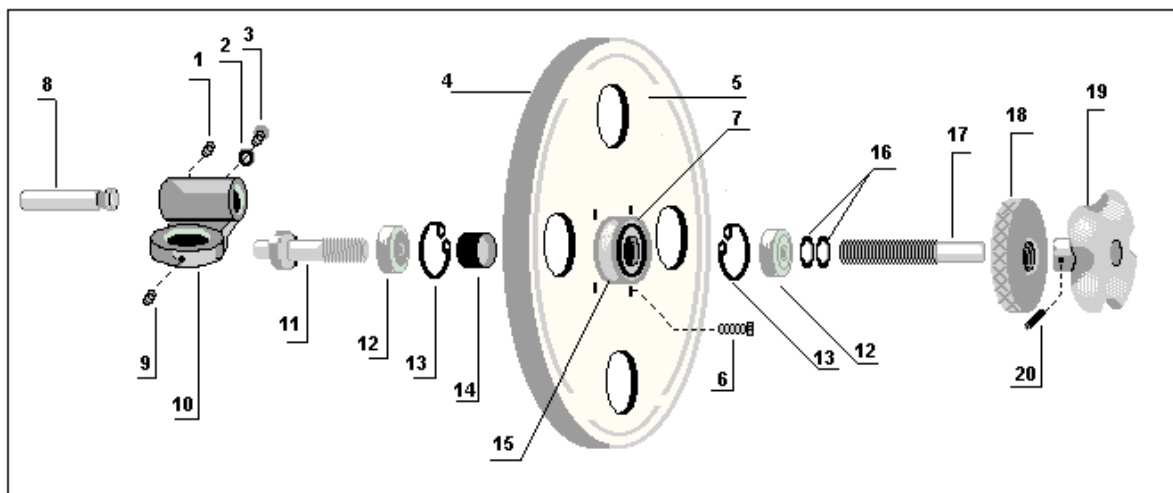
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Vibration during cutting						
					Failure to cut	
					Short life of saw blade	
					Curved cutting	
					Broken blade	
•	•	•	•	•	Use of blade with incorrect pitch	Use blades with correct pitch, suited to workpiece width
•	•	•	•	•	Failure to break in saw blade	Perform break-in operation
•	•	•			Excessive saw blade speed	Reduce speed
			•	•	Insufficient saw blade speed	Increase speed
•		•	•	•	Excessive chip load	Reduce load
•		•	•		Insufficient chip load	Increase load
•		•	•	•	Wire chip brush improperly positioned	Relocate or replace
•		•	•		Blade improperly clamped by insert	Check and correct
•	•	•	•	•	Use of incorrect saw blade	Replace
•	•	•	•	•	Fluctuation of line voltage	Stabilize
•		•	•	•	Loose blade guides	Tighten
•		•		•	Back edge of blade running off of wheel	Adjust wheel to obtain clearance
	•	•	•		Saw blade teeth worn	Replace

TOP BRACKET & BLADE TENSION ASSEMBLY - FIGURE 1.1



TRACKING BAND WHEEL ASSEMBLY - FIGURE 1.2



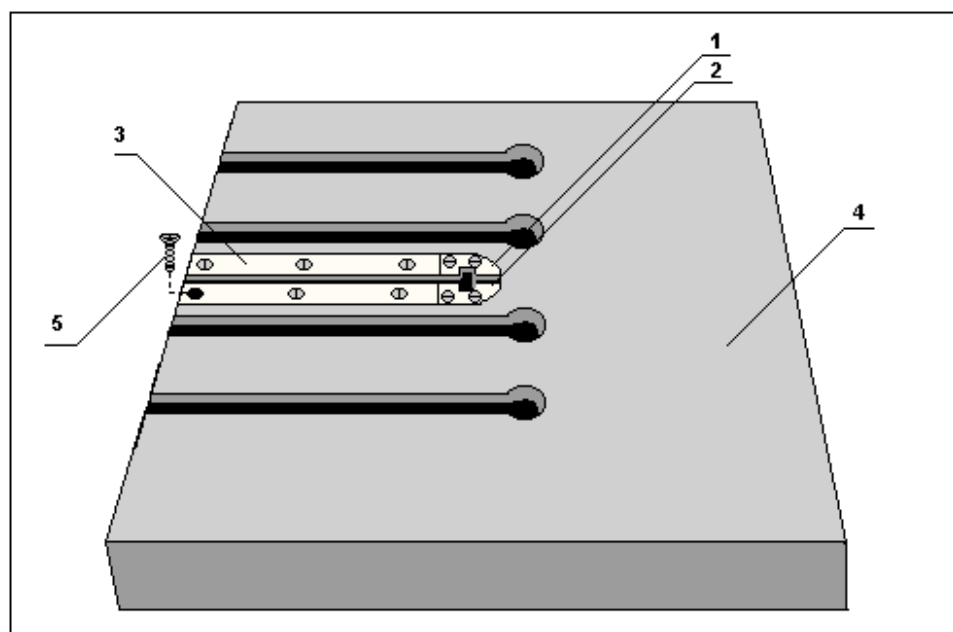
TOP BRACKET ASSEMBLY – FIGURE 1.1

ITEM	PART NAME	PART NO.	V/E-16	V-24	VH-24	V-40	VH-40
1	Handwheel	81529	1	1	1	1	1
2	Adjusting Wheel Collar	81530	1	-	-	1	1
2	Adjusting Wheel Collar	81531	-	1	1	-	-
3	Spindle	81532	1	-	-	1	1
3	Spindle	81533	-	1	1	-	-
4	Crown Spring	81534	6	-	-	6	6
4	Crown Spring	81535	-	6	6	-	-
5	Axial Bearing	81536	1	-	-	1	1
5	Axial Bearing	81537	-	1	1	-	-
6	Spacer	81538	1	-	-	1	1
6	Spacer	81539	-	1	1	-	-
7	Lath Gib	81540	2	-	-	2	2
7	Lath Gib	81541	-	2	2	-	-
8	Carriage	81542	1	-	-	1	1
8	Carriage	81543	-	1	1	-	-
9	Carriage Lower Portion	81544	1	-	-	1	1
9	Carriage Lower Portion	81545	-	1	1	-	-
10	Rack	81546	1	-	-	-	-
10	Rack	81547	-	1	1	1	1
11	Screw 4mm x 16mm	81548	2	2	2	2	2
12	Pin	81549	1	1	1	1	1
13	Set Screw 6mm x 10mm 8 pitch	80529	1	-	-	1	1
13	Set Screw 8mm x 10mm	81550	-	1	1	-	-
14	Flat Head Screw 4mm x 6mm	81551	2	2	2	2	2
15	Needle Bearing K20x24x17	81552	1	-	-	1	1
15	Needle Bearing K25x30x39 2W	81553	-	1	1	-	-
16	Screw 8mm x 20mm	80521	9	11	11	9	9
17	Guide Post	81555	1	-	-	-	-
17	Guide Post	81556	-	-	-	1	1
17	Guide Post	81557	-	1	1	-	-
18	Set Screw 10mm x 20mm	81560	1	1	1	1	1
19	Threaded Sleeve	81558	4	4	4	4	4
20	Plate	81561	1	-	-	1	1
20	Plate	81562	-	1	1	-	-
21	Handle Bolt	81563	1	1	1	1	1
22	Roll Pin	81654	1	1	1	1	1
23	Star Handle	81565	1	1	1	1	1
24	Cap Screw 6mm x 12mm	80625	3	3	3	3	3
25	Set Screw 6mm x 10mm 8 pitch	80529	1	1	1	1	1
26	Gear	81566	1	-	-	1	1
26	Gear	81567	-	1	1	-	-
27	Roll Pin	81568	1	1	1	1	1
28	Handle	80501	1	1	1	1	1
29	Hand Wheel	80500	1	1	1	1	1
30	Flange	81569	1	1	1	1	1
31	Hand Wheel Adjusting Bolt	81570	1	1	1	1	1
32	Tension Collar Set Screw		1	1	1	1	1
33	Tension Indicator Collar		1	1	1	1	1
34	Tension Indicator Pointer Rod	Assembly 81973 (Cover for hole for old gauge is 81972)	1	1	1	1	1
35	Indicator Pointer Return Spring		1	1	1	1	1
36	Indicator Plate		1	1	1	1	1
37	Mounting Bolts		1	1	1	1	1
38	Pivot Bolt		2	2	2	2	2
39	Pivot Bolt Nut		1	1	1	1	1
40	Plate Spacers		2	2	2	2	2
	V-16 Bracket Assembly	716500	1	-	-	-	-

TRACKING BAND WHEEL ASSEMBLY – FIGURE 1.2

ITEM	PART NAME	PART NO.	V/E-16	V-24	VH-24	V-40	VH-40
	Complete Assembly	716501	1	-	-	-	-
1	Screw 8mm x 10mm	81571	2	-	-	4	4
1	Screw 8mm x 16mm	81572	-	2	2	-	-
2	Jam nut 8mm	91573	1	1	1	2	2
3	Set Screw 8mm x 25mm	81574	1	1	1	2	2
4	Nylon Bandage (80540)	714834	1	-	-	2	2
4	Nylon Bandage (90539)	714835	-	1	1	-	-
5	Upper Band Wheel	80618	1	-	-	2	2
5	Upper Band Wheel	80619	-	1	1	-	-
6	Cap Screw 8mm x 25 mm	81575	4	-	-	8	8
6	Cap Screw 10mm x 30mm	81505	-	4	4	-	-
7	Flange	80650	1	-	-	2	2
7	Flange	81576	-	1	1	-	-
8	Special Pin 88mm x 16mm dia	81577	1	-	-	2	2
8	Special Pin	81578	-	1	1	-	-
9	Set Screw 8mm x 16mm	81572	1	1	1	2	2
10	Adjuster Casting	81579	1	-	-	2	2
10	Adjuster Casting	81580	-	1	1	-	-
11	Shoulder Bolt	81581	1	-	-	2	2
11	Shoulder Bolt	81582	-	1	1	-	-
12	Bearing 62042	80685	2	-	-	4	4
12	Bearing 6306 2RS	81583	-	2	2	-	-
13	Snap Ring	81584	2	-	-	4	4
13	Snap Ring	81585	-	2	2	-	-
14	Spacer 20.7mm IDx25mm OD 18.5mm	81586	1	-	-	2	2
14	Spacer	81587	-	1	1	-	-
15	Flat Washer 5/16" x 1/16" Thick	43632	4	-	-	8	8
15	Flat Washer	81507	-	4	4	-	-
16	Shaft Nut	81588	1	-	-	2	2
16	Shaft Nut 20mm	81589	-	1	1	-	-
17	Screw (Special)	81590	1	-	-	2	2
17	Screw (Special) 20mm	81591	-	1	1	-	-
18	Nut (Special Knurled)	81592	1	-	-	2	2
18	Nut (Special Knurled) 10mm tapped	81593	-	1	1	-	-
19	Adjusting Hand Wheel	81595	1	-	-	2	2
19	Adjusting Hand Wheel	81596	-	1	1	-	-
20	Roll Pin	81594	-	1	1	-	-

TABLE ASSEMBLY, HYDRAULIC
FIGURE 2.1



CRADLE & TRUNION ASSEMBLY, HYDRAULIC
FIGURE 2.2

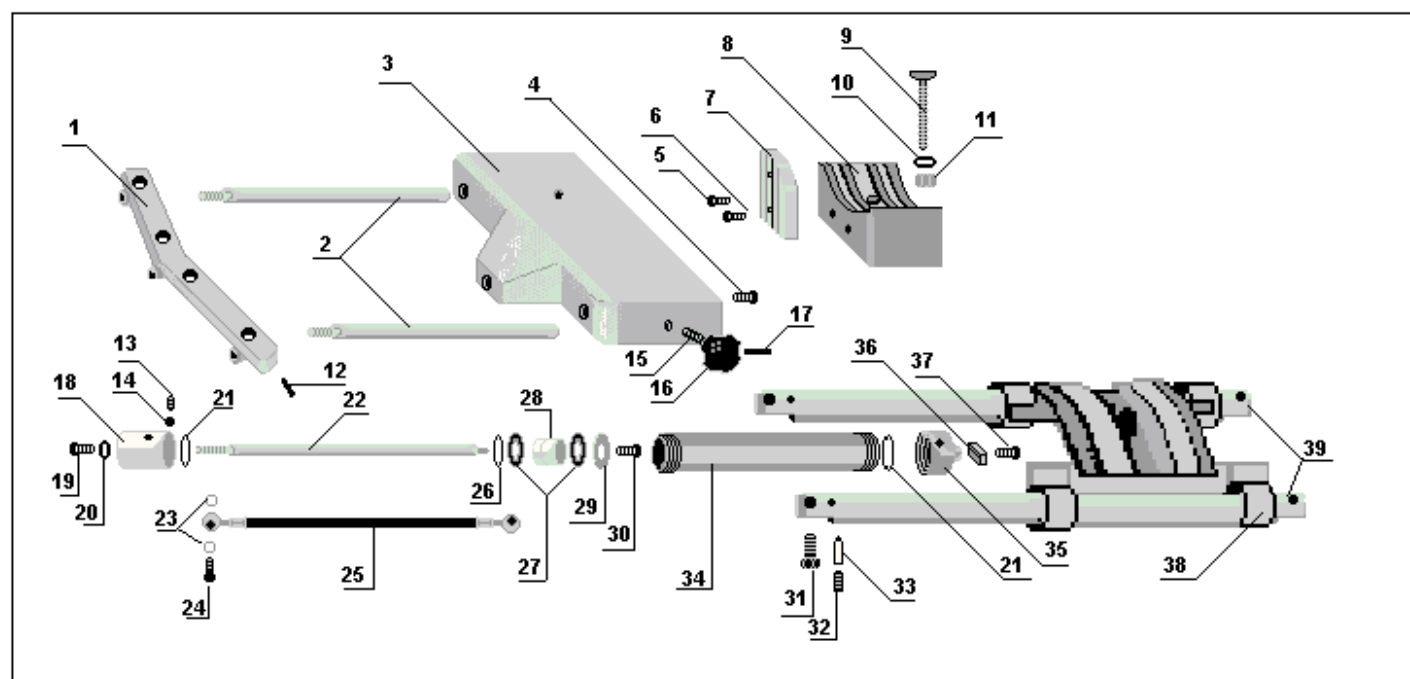


Table Assembly, Hydraulic – Figure 2.1

ITEM	PART NAME	PART NO.	V/E-16	V-24	VH-24	V-40	VH-40
1	Table Insert (Left Rear)	81597	-	-	1	-	1
2	Table Insert (Right Rear)	81598	-	-	1	-	1
3	Table Insert	81792	-	-	2	-	2
4	Table Casting	81700	-	-	1	-	1
5	Cap Screw 4mm x 12 mm	81701	-	-	10	-	10

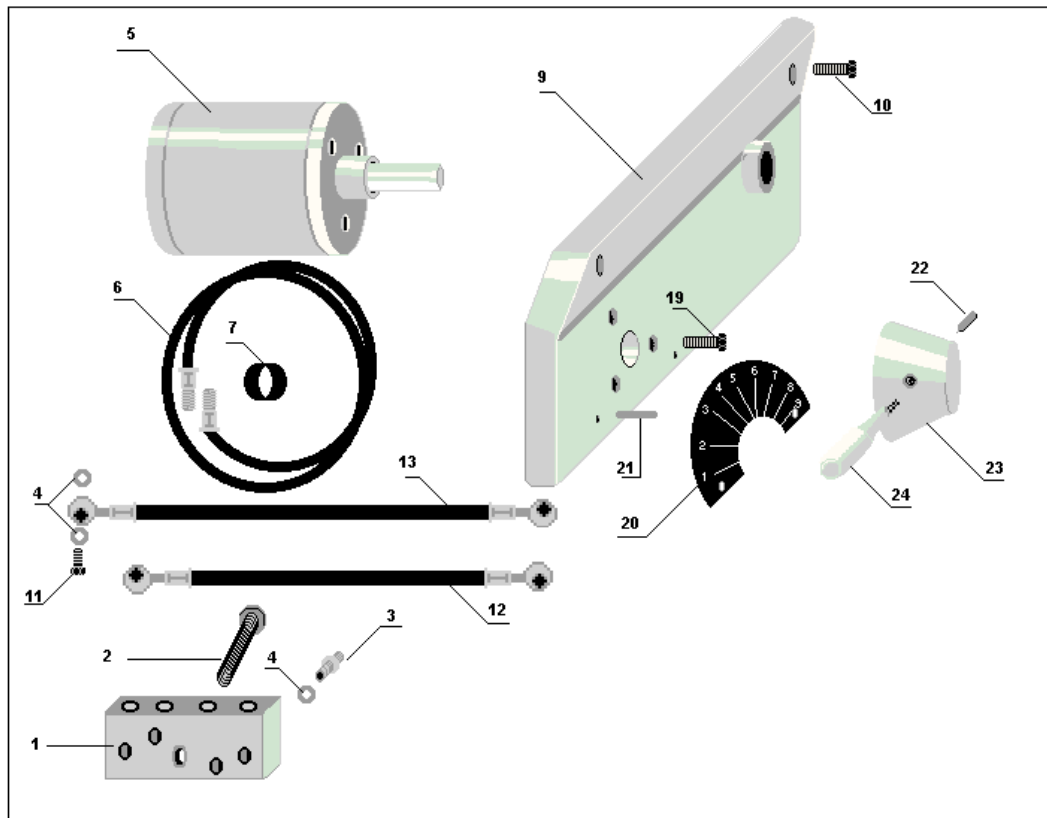
Cradle & Trunion Assembly, Hydraulic – Figure 2.2

ITEM	PART NAME	PART NO.	V/E-16	V-24	VH-24	V-40	VH-40
1	Bracket	81702	-	-	1	-	1
2	Guide Rod	81703	-	-	2	-	2
3	Guide Casting	81704	-	-	1	-	1
4	Cap Screw 8mm x 25mm	81705	-	-	3	-	3
5	Cap Screw 6mm x 20mm	81706	-	-	2	-	2
6	Cap Screw	81707	-	-	1	-	1
7	Blade Guide Bracket Casting	81708	-	-	1	-	1
8	Table Cradle Lower Part 24/40	81709	-	-	1	-	1
8	Table Cradle Lower Part V-16	85372	1	-	-	-	-
9	Special Rotation Bolt	81710	-	-	1	-	1
10	Flat Washer	81711	-	-	1	-	1
11	Nut	81712	-	-	1	-	1
12	Roll Pin 4mm x 30mm	81713	-	-	2	-	2
*13	Set Screw 8mm x 10mm	81714	-	-	2	-	2
*14	Ball .186 dia.	81715	-	-	2	-	2
15	Screw (Special) 12mm x 25mm	81716	-	-	2	-	2
16	Handle	81717	-	-	2	-	2
17	Roll Pin 2.5mm x 30mm	81718	-	-	2	-	2
*18	Piston Guide	81719	-	-	1	-	1
19	Cap Screw 8mm x 20mm	80521	-	-	1	-	1
20	O-Ring 20.2 .3	80558	-	-	2	-	2
*21	Seal Ring	80623	-	-	2	-	2
*22	Piston Shaft	80617	-	-	1	-	1
23	Seal Washer	81720	-	-	8	-	8
24	Bored Screw	80580	-	-	4	-	4
25	Flexible Hydraulic Hose	81721	-	-	2	-	2
*26	Washer 82100000	81722	-	-	1	-	1
*27	Piston Seal 22mm x 35mm	80560	-	-	2	-	2
*28	Piston	81723	-	-	1	-	1
*29	Collar	81724	-	-	1	-	1
*30	Cap Screw 8mm x 70mm	81725	-	-	1	-	1
31	Cap Screw 10mm x 30mm	81726	-	-	4	-	4
32	Set Screw 5mm x 7mm	81727	-	-	4	-	4
33	Cone Pin	81758	-	-	4	-	4
*34	Cylinder	81729	-	-	1	-	1
*35	Cylinder Head	80682	-	-	1	-	1
36	Terminal	81730	-	-	1	-	1
37	Cap Screw 8mm x 30mm	81731	-	-	1	-	1
38	Cradle Upper Tilting Bracket	81732	-	-	1	-	1
39	Table Guide Shaft Rod	81733	-	-	2	-	2
*	Complete Cylinder Assembly	714814	-	-	1	-	1
* 714814 contains 13,14,18,21,22,26,27,28,29,30,34,35							

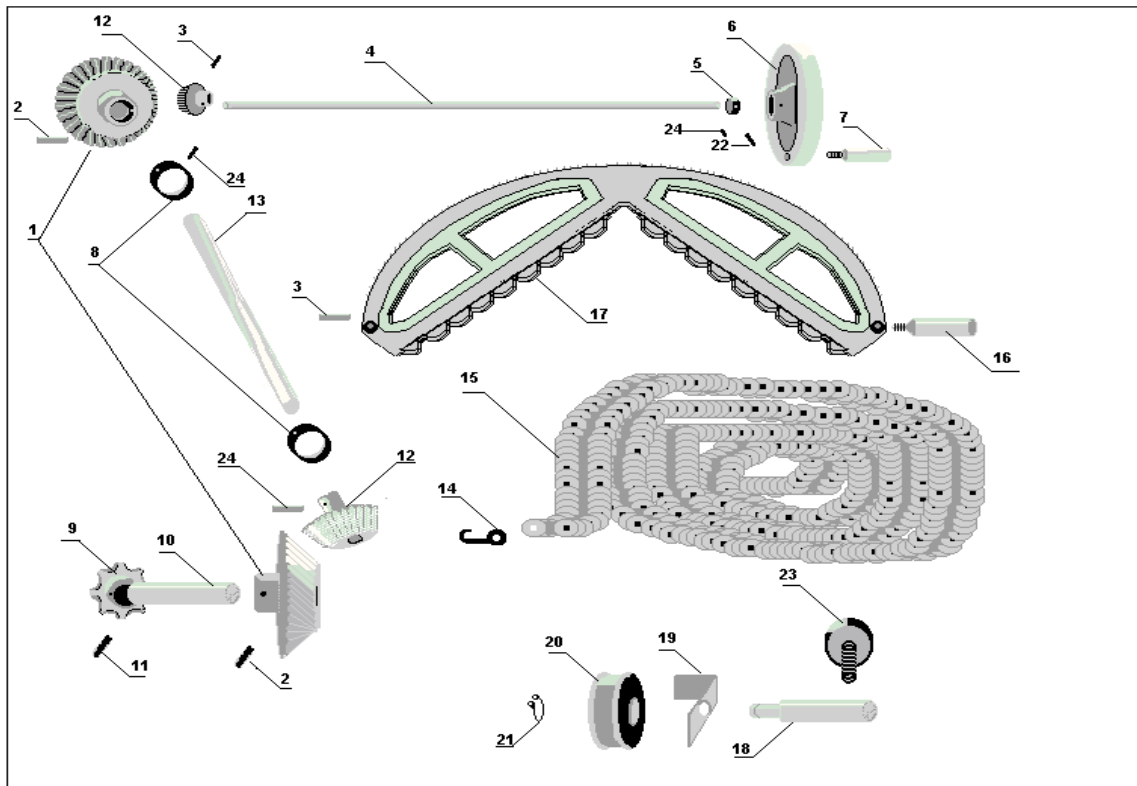
Control Valve Assembly – Figure 2.3

ITEM	PART NAME	PART NO.	V/E-16	V-24	VH-24	V-40	VH-40
1	Distributor Block	81734	-	-	1	-	1
2	Screw	81735	-	-	1	-	1
3	Connection	81736	-	-	2	-	2
4	Seal Washer	81720	-	-	18	-	18
5	Flow Control Assem Complete	714832	-	-	1	-	1
6	Flexible Hydr. Hose – 714827 (62")	81738	-	-	-	-	2
6	Flexible Hydr. Hose – 714826 (52")	81739	-	-	2	-	-
7	Rubber Ring	81740	-	-	2	-	2
9	Mounting Plate Casting	80620	-	-	1	-	1
10	Cap Screw 8mm x 20mm	80521	-	-	2	-	2
11	Bored Screw	80580	-	-	8	-	8
12	Hydraulic Hose	81742	-	-	2	-	2
13	Hydraulic Hose	81743	-	-	2	-	2
19	Cap Screw 6mm x 20mm	81706	-	-	3	-	3
20	Gauged Plated	81747	-	-	1	-	1
21	Roll Pin	81748	-	-	2	-	2
22	Cone Pin	81749	-	-	1	-	1
23	Valve Handle Hub	81750	-	-	1	-	1
24	Handle	80662	-	-	1	-	1

CONTROL VALVE ASSEMBLY
FIGURE 2.3



PROFILE SAW ATTACHMENT, HYDRAULIC - FIGURE 2.4



Profile Sawing Attachment – Figure 2.4

ITEM							0
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14	Chain Link	80630	-	-	1	-	1
15	Chain 3940mm	81525	-	-	1	-	1
16	Handle	81760	-	-	2	-	2
17	Work Piece Holder w/ Handle	714863	-	-	1	-	1
18	Roller Shaft	81762	-	-	2	-	2
19	Roller Bracket	81763	-	-	2	-	2
20	Chain Pulley	81754	-	-	2	-	2
21	Snap Ring	81765	-	-	2	-	2
22	Set Screw 6mm x 10mm 8 pitch	80529	-	-	1	-	1
23	Trunion Locking Bolt	81526	-	-	2	-	2
24	Roll Pin	81718	-	-	3	-	3

An exploded view diagram of a rectangular box assembly. The components are labeled with numbers 1 through 8:

- 1:** A screw with a hexagonal head, positioned to be inserted into the top edge of the box.
- 2:** The main rectangular box body.
- 3:** A small circular cap or plug, positioned to fit into a hole on the bottom left corner of the box.
- 4:** A small circular cap or plug, positioned to fit into a hole on the bottom left corner of the box.
- 5:** A vertical sliding mechanism or latch, positioned to be inserted into the front face of the box.
- 6:** A small circular cap or plug, positioned to fit into a hole on the bottom right corner of the box.
- 7:** A small circular cap or plug, positioned to fit into a hole on the bottom right corner of the box.
- 8:** A small circular cap or plug, positioned to fit into a hole on the bottom right corner of the box.

ITEM	PART NAME	PART NO.	V/E-16	V-24	VH-24	V-40	VH-40
1	Cap Screw 6mm x 10mm	80502	-	-	10	-	10
2	Reservoir Shell	80601	-	-	1	-	1
3	Drain Plug	81766	-	-	1	-	1
4	Drain Plug Seal Washer	81767	-	-	1	-	1
5	Oil Gauge (Large Round Sight Glass)	80571	-	-	1	-	1
7	Cap Screw 8mm x 25mm	81575	-	-	2	-	2
8	Flat Washer 5/16 x 1/16 thick	80522	-	-	2	-	2

This exploded view diagram illustrates the assembly of the 1000W motor. The components are numbered as follows:

- 1: Motor unit
- 2, 3: Screws for the mounting plate
- 4: Mounting plate
- 5: Nut for the mounting plate
- 6: Washer for the mounting plate
- 7, 8: Screws for the mounting plate
- 9: Mounting plate
- 10, 11, 12: Screws for the mounting plate
- 13: Mounting plate
- 14, 15: Screws for the mounting plate
- 16: Mounting plate
- 17: Mounting plate
- 18: Mounting plate
- 19: Mounting plate
- 20: Mounting plate
- 21: Mounting plate
- 22: Mounting plate
- 23: Mounting plate
- 24: Mounting plate
- 25: Mounting plate
- 26: Mounting plate
- 27: Mounting plate
- 28: Mounting plate
- 29: Mounting plate
- 30: Mounting plate
- 31: Mounting plate
- 32: Mounting plate

Hydraulic Pumping Unit Assembly – Figure 2.6

ITEM	PART NAME	PART NO.	V/E-16	V-24	VH-24	V-40	VH-40
1	Motor 220/440 volts 60 hz.	80541	-	-	1	-	1
2	Pressure Regulator Jam Nuts		-	-	2	-	2
3	Flat Washer	81769	-	-	2	-	2
4	Motor Coupling	81770	-	-	1	-	1
5	Ring	81771	-	-	1	-	1
6	Reservoir Cover/Motor Mounting Plate	80555	-	-	1	-	1
7	Connection	81772	-	-	1	-	1
8	Connection ML8	81773	-	-	1	-	1
9	Connection GL8	81774	-	-	1	-	1
10	Hose	81775	-	-	1	-	1
11	Hose	81776	-	-	1	-	1
12	Hose	81777	-	-	1	-	1
13	Cap Screw	81778	-	-	2	-	2
14	Cap Screw 8mm x 25mm	81575	-	-	4	-	4
15	Washer	81779	-	-	4	-	4
16	Set Screw 8mm x 10mm	81550	-	-	1	-	1
21	Oil Fill Plug (Cap)	81782	-	-	1	-	1
24	Motor Coupling Spider	81785	-	-	1	-	1
25	Pressure Regulator Valve	80612	-	-	1	-	1
27	Motor Coupling Pump Side	81787	-	-	1	-	1
28	Pump Holder	81788	-	-	1	-	1
29	Gear Pump	80609	-	-	1	-	1
30	Connection 15ML	81789	-	-	1	-	1
31	Connection GL12	81790	-	-	1	-	1
32	Screen Oil Filter	80610	-	-	1	-	1
	Complete Assembly	714852	-	-	1	-	1

TABLE ASSEMBLY MECHANICAL - FIGURE 2.7

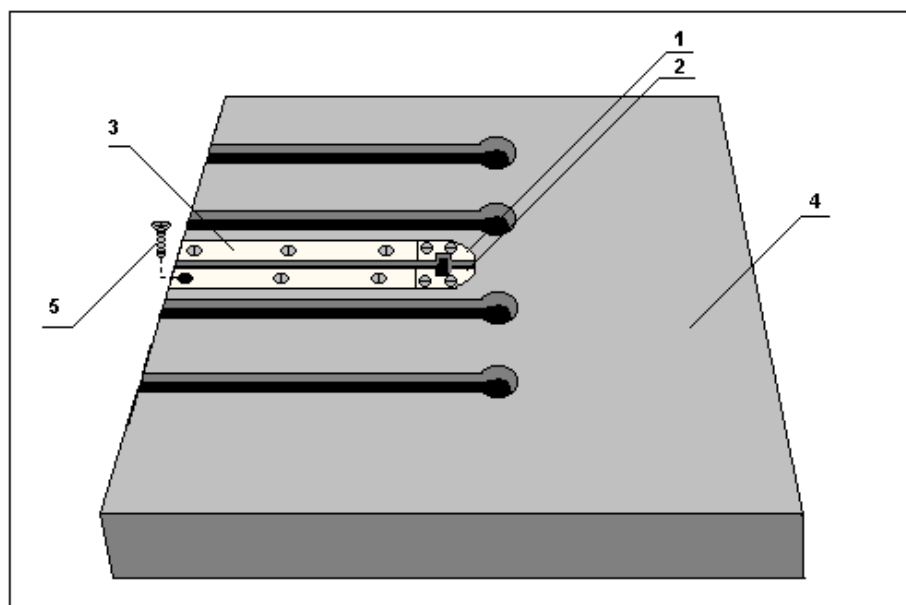
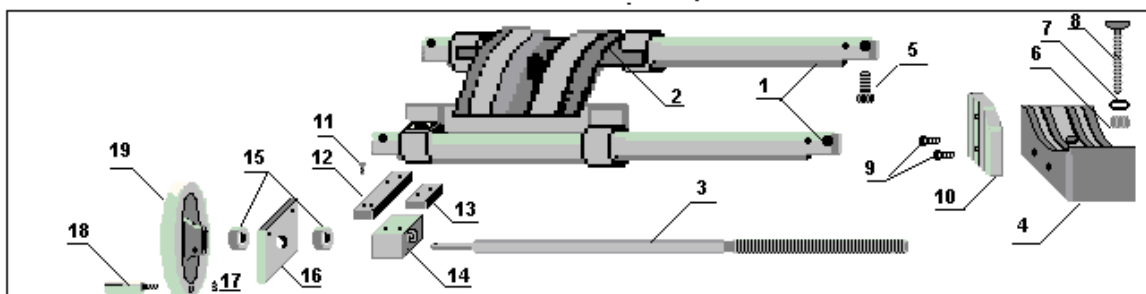


Table Assembly Mechanical – Figure 2.7

ITEM	PART NAME	PART NO.	V/E-16	V-24	VH-24	V-40	VH-40
1	Table Insert (Left Rear)	81597	-	1	-	1	-
2	Table Insert (Right Rear)	81598	-	1	-	1	-
3	Table Insert	81792	2	2	-	2	-
4	Table Casting	75678	-	1	-	1	-
4	Table Casting	75677	1	-	-	-	-
5	Cap Screw 4mm x 12mm	81701	-	10	-	10	-
	Table – V-16	77185	1	-	-	-	-
	Round Table Insert	77186	1	-	-	-	-
	Long Lath Table	77184	1	-	-	-	-
N/A	Rip Fence	714869	1	-	-	-	-
N/A	Rip fence handle	300362	1	-	-	-	-
N/A	T-Nut	81504	1	-	-	-	-

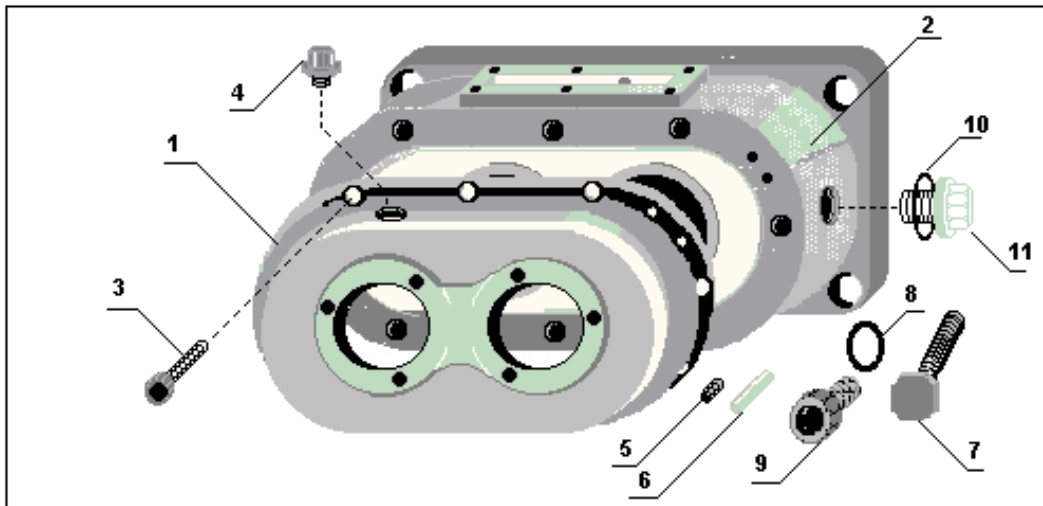
CRADLE & TRUNION ASSEMBLY , MECHANICAL - 2.8



Cradle & Trunion Assembly , Mechanical – 2.8

ITEM	PART NAME	PART NO.	V/E-16	V-24	VH-24	V-40	VH-40
1	Guide Shaft Rod	81733	-	2	-	2	-
2	Miter Tilt Bracket	81732	-	1	-	1	-
3	Spindle Screw Shaft	81812	-	1	-	1	-
4	Table Miter Tilt Bracket Lower Portion	81709	-	1	-	1	-
4	Table Mount for V-16	85372	1	-	-	-	-
5	Cap Screw 10mm x 30mm	81726	-	4	-	4	-
6	Locking Nut	81712	-	1	-	1	-
7	Washer	87711	-	1	-	1	-
8	Special Rotation Bolt	81710	-	1	-	1	-
9	Cap Screw 6mm x 20mm	81706	-	2	-	2	-
10	Lower Guider Holder Casting	81708	-	1	-	1	-
11	Cap Screw		-	4	-	4	-
12	Screw Nut support Plate		-	1	-	1	-
13	Screw Nut Support Plate Spacer Plate		-	1	-	1	-
14	Screw Nut	81811	-	1	-	1	-
15	Axial Bearing	81801	-	2	-	2	-
16	Control Bracket Casting	81813	-	1	-	1	-
17	Set Screw 6mm x 10mm 8 pitch	80529	-	1	-	1	-
18	Handle part of 81802		-	1	-	1	-
19	Handwheel	81802	-	1	-	1	-

TRANSMISSION ASSEMBLY - 3.1

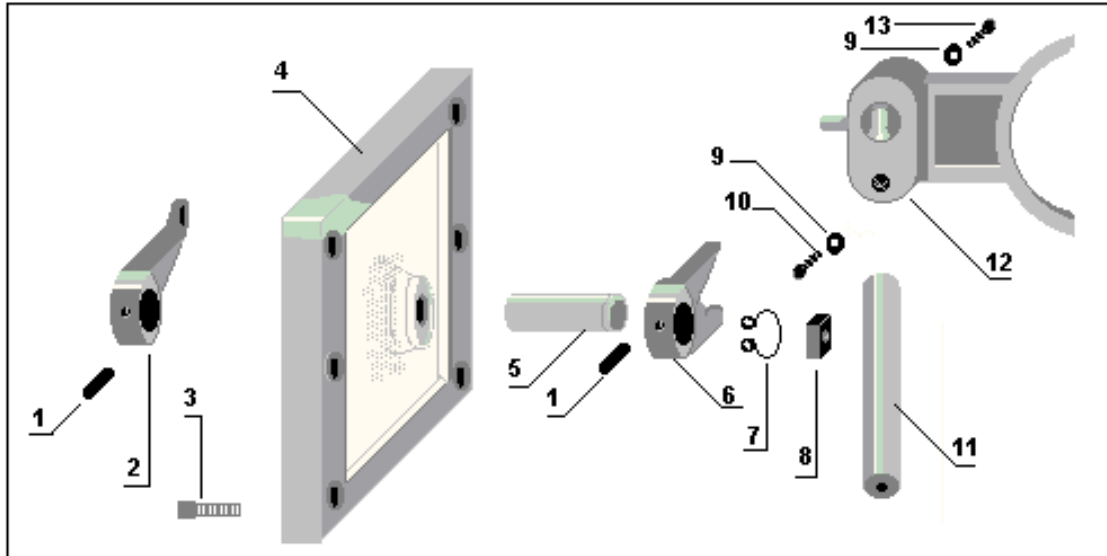


Use Pinnacle 460 or Mobil SHC 634

Transmission Assembly – Figure 3.1

ITEM	PART NAME	PART NO.	V/E-16	V-24	VH-24	V-40	VH-40
1	Front Cover Plate	81819	-	1	1	1	1
2	Transmission Main Body Casting	81820	-	1	1	1	1
3	Cap Screw 8mm x 20mm	80521	-	8	8	8	8
4	Plug	81821	-	1	1	1	1
5	Set Screw 5mm x 7mm	81728	-	2	2	2	2
6	Alignment Roll Pin	81728	-	2	2	2	2
7	Hex Head Bolt	81822	-	4	4	4	4
8	Washer	81507	-	4	4	4	4
9	Threaded Adjustment Sleeve	81558	-	4	4	4	4
10	O-ring 1 x 1-3/16 x 3/32	81823	-	1	1	1	1
11	Oil Sight Glass	80571	-	1	1	1	1
Complete Transmission Assembly V-16		714862	-	-	-	-	-
Complete Transmission Assembly V-24/VH-24		714845	-	1	1	-	-
Complete Transmission Assembly V-40/VH-40		714844	-	-	-	1	1

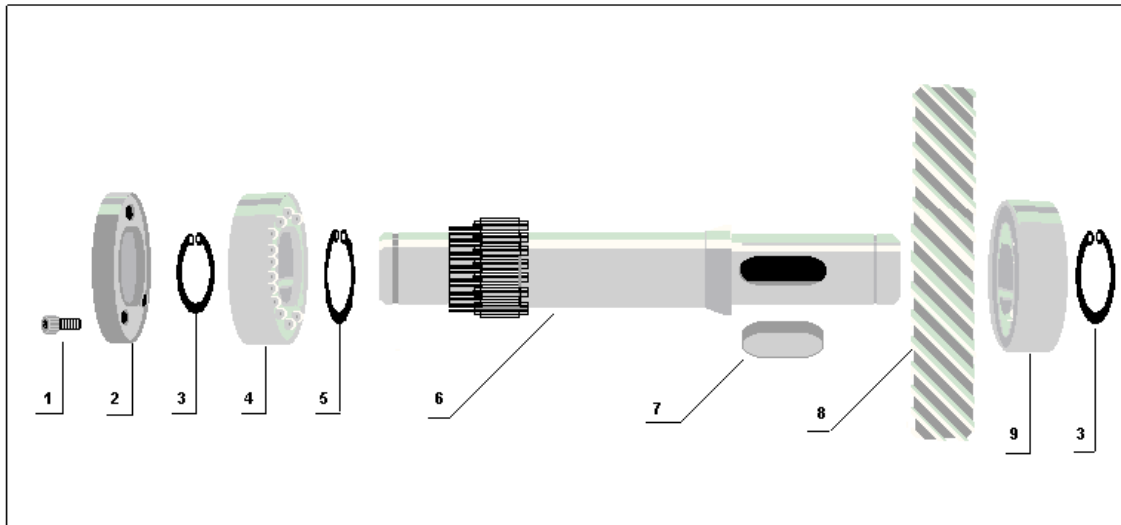
TRANSMISSION ASSEMBLY - 3.2



Transmission Assembly – Figure 3.2

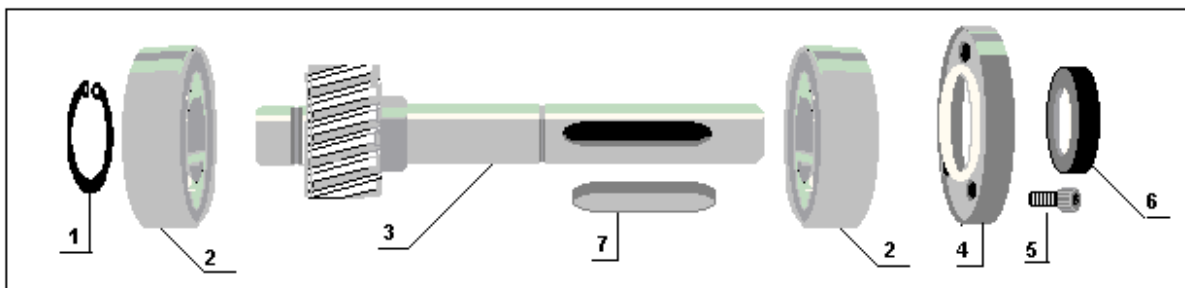
ITEM	PART NAME	PART NO.	V/E-16	V-24	VH-24	V-40	VH-40
1	Roll Pin	81824	-	2	2	2	2
2	Lever	81825	-	1	1	1	1
3	Cap Screw 6mm x 20mm	81706	-	6	6	6	6
4	Cover Plate	81826	-	1	1	1	1
5	Special Bolt (Shift Lever)	81827	-	1	1	1	1
6	Gear Shifter Casting	81828	-	1	1	1	1
7	Snap Ring	81829	-	1	1	1	1
8	Guide Collar	81830	-	1	1	1	1
9	Nut	81831	-	2	2	2	2
10	Screw	81832	-	1	1	1	1
11	Shaft	81833	-	1	1	1	1
12	Gear Shaft Fork	81834	-	1	1	1	1
13	Screw	81835	-	1	1	1	1

TRANSMISSION ASSEMBLY (GEARS) - FIGURE 3.3



ITEM							-40
1							
2							
3							
4/9							
5	Snap Ring	81839	-	1	1	1	1
6	Shaft	81840	-	1	1	1	1
7	Key	81841	-	1	1	1	1
8	Gear	81842	-	1	1	1	1

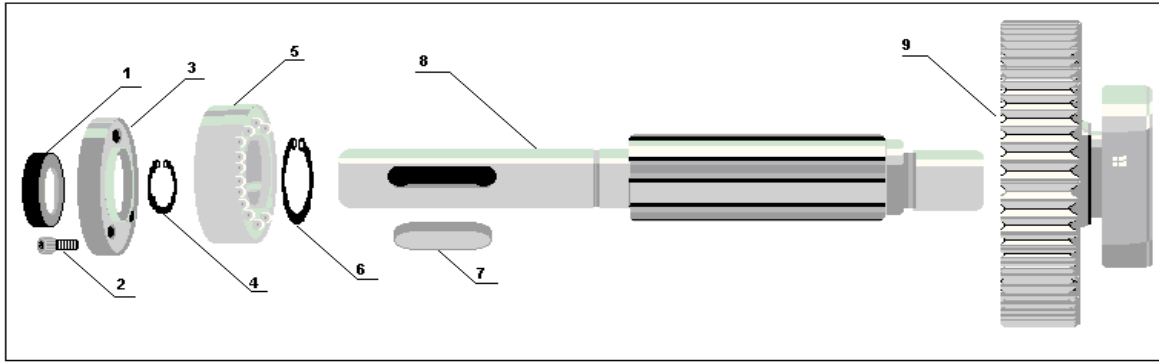
TRANSMISSION ASSEMBLY (GEARS) - FIGURE 3.4



Transmission Assembly (Gears) – Figure 3.4

ITEM	PART NAME	PART NO.	V/E-16	V-24	VH-24	V-40	VH-40
1	Snap Ring	81843	-	1	1	1	1
2	Bearing	80673	-	2	2	2	2
3	Shaft	81844	-	-	-	1	1
3	Shaft	81845	-	1	1	-	-
4	End Cover Plate	81849	-	1	1	1	1
5	Cap Screw	81707	-	3	3	3	3
6	Oil Seal	81846	-	1	1	1	1
7	Key	81847	-	1	1	1	1

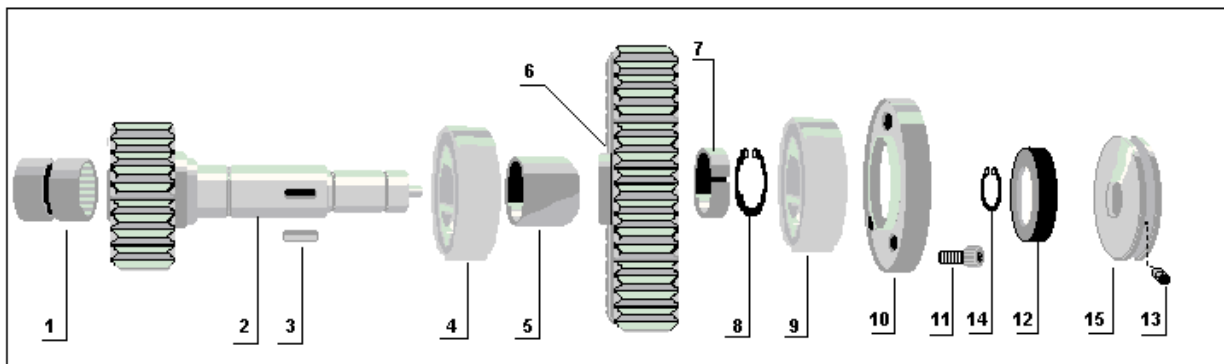
TRANSMISSION ASSEMBLY (GEARS) - FIGURE 3.5



Transmission Assembly (Gears) – Figure 3.5

ITEM	PART NAME	PART NO.	V/E-16	V-24	VH-24	V-40	VH-40
1	Oil Ring	81848	-	1	1	1	1
2	Cap Screw	81707	-	3	3	3	3
3	End Cover Plate	81849	-	1	1	1	1
4	Snap Ring	81837	-	1	1	1	1
5	Bearing BCA 5206K	81850	-	1	1	1	1
6	Snap Ring	81839	-	1	1	1	1
7	Key	81851	-	1	1	1	1
8	Spline Shaft	81852	-	1	1	1	1
	**Models older than 1997 need to order the following in addition to the Spline Shaft						
	Shaft	81855	-	1	1	1	1
	Thrust Bearing	300296	-	1	1	1	1
	Needle Bearing	81854	-	1	1	1	1
9	Gear	81853	-	1	1	1	1

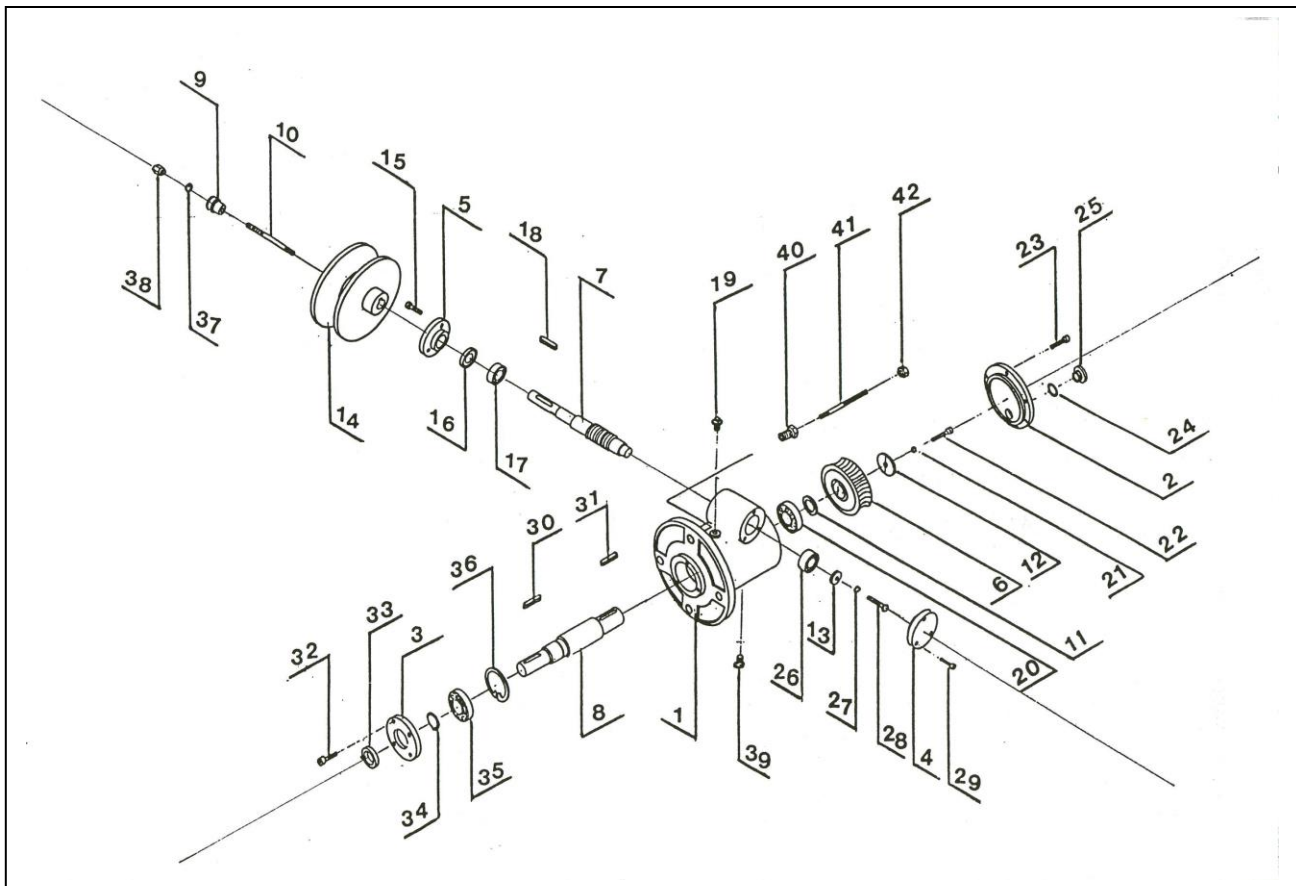
TRANSMISSION ASSEMBLY (GEARS) - FIGURE 3.6



Transmission Assembly (Gears) – Figure 3.6

ITEM	PART NAME	PART NO.	V/E-16	V-24	VH-24	V-40	VH-40
1	Needle Bearing	81854	-	1	1	1	1
2	Shaft	81855	-	1	1	1	1
3	Key	81841	-	1	1	1	1
4	Bearing	81838 / 79465	-	1	1	1	1
5	Spacer Ring	81856	-	1	1	1	1
6	Gear	81857	-	-	-	1	1
6	Gear	81858	-	1	1	-	-
7	Spacer Ring	81859	-	1	1	1	1
8	Snap Ring	81843	-	1	1	1	1
9	Bearing	80673	-	1	1	1	1
10	End Cover Plate	80643	-	1	1	1	1
11	Cap Screw	81707	-	3	3	3	3
12	Oil Seal	81846	-	1	1	1	1
13	Set Screw	81741	-	1	1	1	1
14	Snap Ring	81860	-	1	1	1	1
15	Tachometer Pulley	81861	-	-	-	1	1
15	Tachometer Pulley	81862	-	1	1	-	-

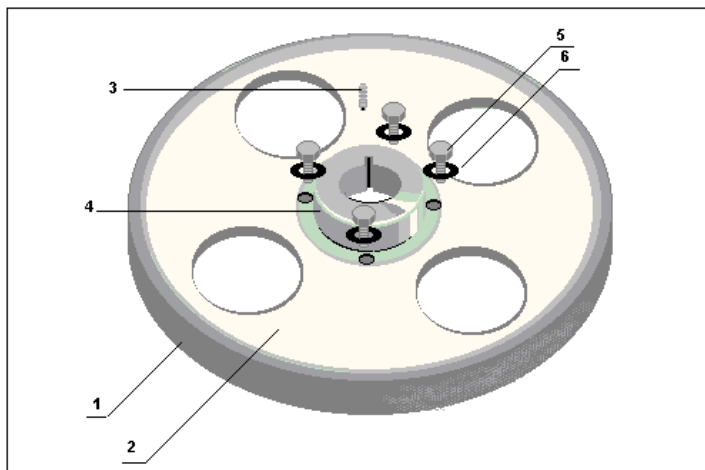
Transmission V-16



Transmission V-16 & E-16

ITEM	PART NAME	PART NO.	V/E-16	V-24	VH-24	V-40	VH-40
1	Body		1	-			
2	Cover		1	-			
3	Cover		1	-			
4	Cover		1	-			
5	Cover		1	-			
6	Worm Wheel		1	-			
7	Worm		1	-			
8	Shaft		1	-			
9	Pulley		1	-			
10	Screw – 6mm thd		1	-			
11	Washer		1	-			
12	Washer		1	-			
13	Washer		1	-			
14	Variator		1	-			
15	Screw m 6x16 DIN 912	81707	3	-			
16	Oil Seal	81846	1	-			
17	Ball Bearing	80673	1	-			
18	Key A10x8x25 DIN 471		1	-			
19	Plug	81821	1	-			
20	Ball Bearing – 6207 DIN	301659	1	-			
21	Washer	81799	1	-			
22	Screw m 8x30 DIN 933		1	-			
23	Screw m 6x16 DIN 912	81707	4	-			
24	O-Ring	81768	1	-			
25	Oil Gauge	80600	1	-	-	-	-
26	Ball Bearing 3205 DIN	301660	1	-	-	-	-
27	Washer	81769	1	-	-	-	-
28	Screw m 6x25 DIN 933		1	-	-	-	-
29	Screw m 6x16 DIN 912	81707	3	-	-	-	-
30	Key A 8x7x32 DIN 6885	81851	1	-	-	-	-
31	Key A 10x8x35 DIN 6885		1	-	-	-	-
32	Screw M 6x16 DIN 912	81707	4	-	-	-	-
33	Oil Seal	80688	1	-	-	-	-
34	Snap Ring		1	-	-	-	-
35	Ball Bearing 6207 DIN	301659	1	-	-	-	-
36	Snap Ring	81585	1	-	-	-	-
37	Washer	81769	1	-	-	-	-
38	Nut	81831	1	-	-	-	-
39	Plug 3/8"		1	-	-	-	-
40	Threaded Sleeve		4	-	-	-	-
41	Screw M 10x50 DIN 931	81822	4	-	-	-	-
42	Nut	81889	4	-	-	-	-
43	Pulley		1	-	-	-	-
44	Washer	77168	1	-	-	-	-
45	Screw M6x25 DIN 912		1	-	-	-	-

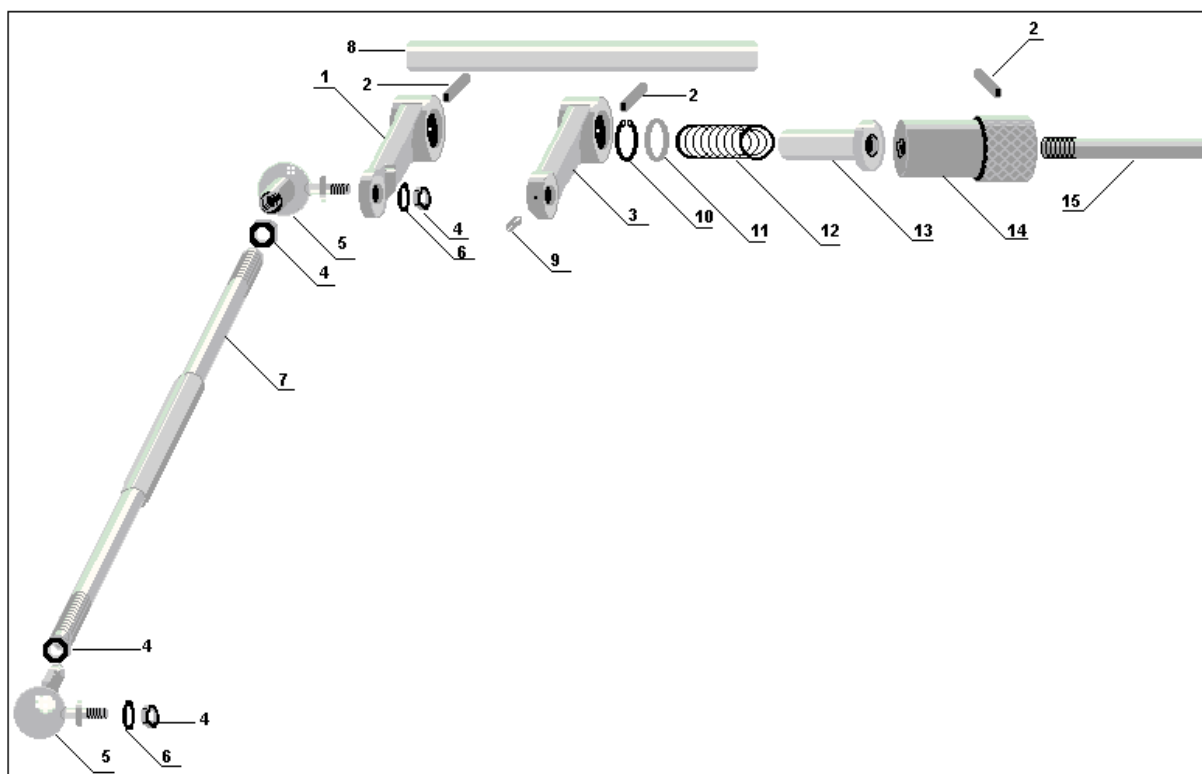
LOWER WHEEL WITH FLANGE - 3.7



Lower Wheel with Flange – Figure 3.7

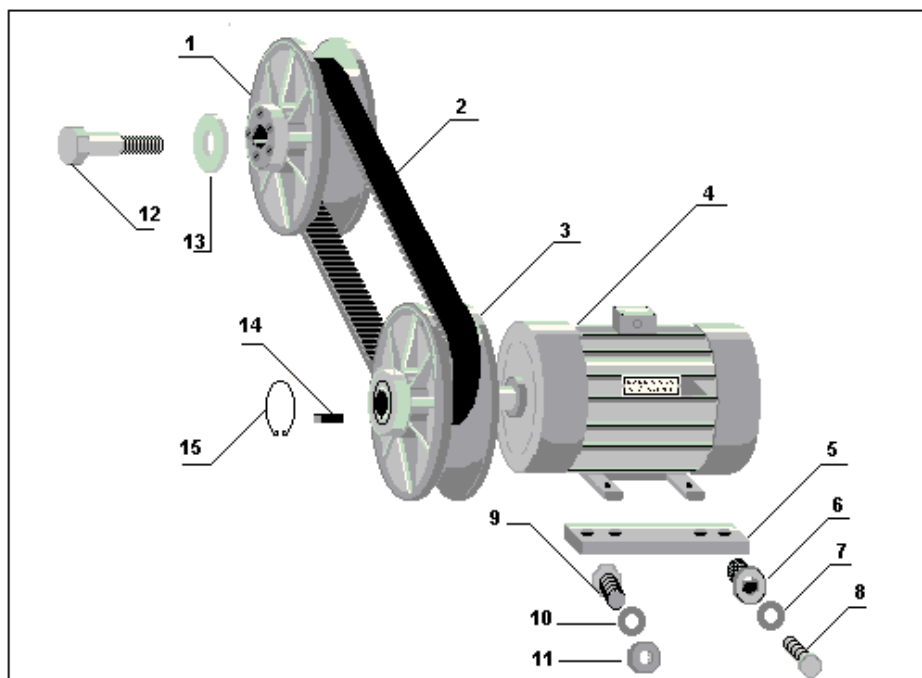
ITEM	PART NAME	PART NO.	V/E-16	V-24	VH-24	V-40	VH-40
1	Band Wheel Cover – Sold as 714834x	80540	1	-	-	1	1
1	Band Wheel Cover – Sold as 714835x	80539	-	1	1	-	-
2	Band Wheel Casting	80618	1	-	-	1	1
2	Band Wheel Casting	80519	-	1	1	-	-
3	Set Screw	81863	1	-	-	1	1
3	Set Screw 10 1.23mm x 35mm	81864	-	1	1	-	-
4	Flange	81865	1	-	-	1	1
4	Flange	80696	-	1	1	-	-
5	Washer 5/16" x 1/16" thick	80522	4	-	-	4	4
5	Washer	81507	-	4	4	-	-
6	Cap Screw 8mm x 25mm	81575	4	-	-	4	4
6	Cap Screw	80505	-	4	4	-	-
	Complete Wheel Assembly	714834X	1	-	-	1	1
	Complete Wheel Assembly	714835X	-	1	1	-	-

GEAR SHIFT ASSEMBLY - FIGURE 3.8



ITEM		DESCRIPTION		QTY		QTY	
14	Handle	81878	-	1	1	1	1
15	Special Bolt	81879	-	1	1	1	1

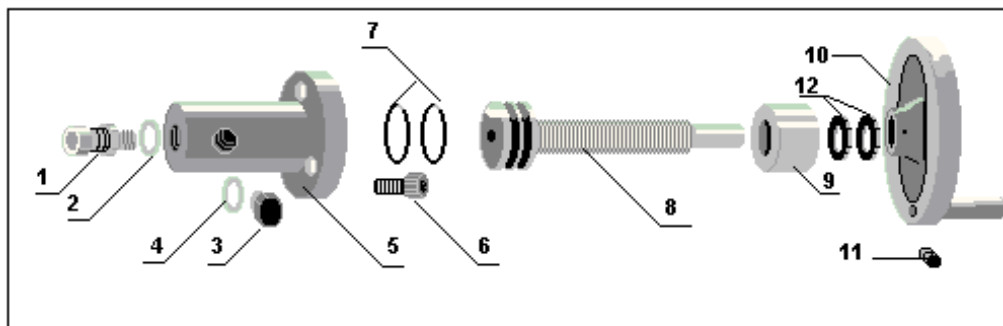
MOTOR AND PULLEY ASSEMBLY - FIGURE 3.9



Motor and Pulley Assembly – Figure 3.9

ITEM	PART NAME	PART NO.	V/E-16	V-24	VH-24	V-40	VH-40
1	Variator (Pulley) Transmission Side	80538	-	1	1	1	1
1	Variator (Pulley) Transmission Side	75676	1	-	-	-	-
2	Drive Belt Cogged 37 x 10 x 1500mm	80535	-	1	1	-	-
2	Drive Belt Cogged 37 x 10 x 1320mm	80532	-	-	-	1	1
2	Drive Belt Cogged for V-16 only	80691	1	-	-	-	-
3	Variator (Pulley) Motor Side	80537	-	1	1	1	1
3	Variator (Pulley) Motor Side 24 mm Bore	75559	1	-	-	-	-
	Older Version 19mm Bore	300440	1	-	-	-	-
4	Drive Motor 220/440 V. 60 Hz.	80531	-	1	1	1	1
4	Drive Motor 220/440 V. 60 Hz.	72759	1	-	-	-	-
5	Motor Base	81880	2	2	2	2	2
6	Threaded Adjusting Sleeve	81558	4	4	4	4	4
7	Washer	81507	4	4	4	4	4
8	Cap Screw	81822	4	4	4	4	4
9	Cap Screw	80631	4	4	4	4	4
10	Washer	81890	8	8	8	8	8
11	Nut	81889	4	4	4	4	4
12	Bolt	80660	1	1	1	1	1
13	Washer	80661	1	1	1	1	1
14	Key	81841	1	1	1	1	1
15	Snap Ring		1	1	1	1	1
	Variator Spring for Transmission	81957	1	-	-	-	-
	Variator Bearing for Motor Side	77028	1	-	-	-	-
	Variator Spring for transmission	80562	-	1	1	1	1
	Variator Bearing for motor side	77027	-	1	1	1	1
16	Bolt	81881	-	1	1	1	1
17	Washer	70270	-	1	1	1	1

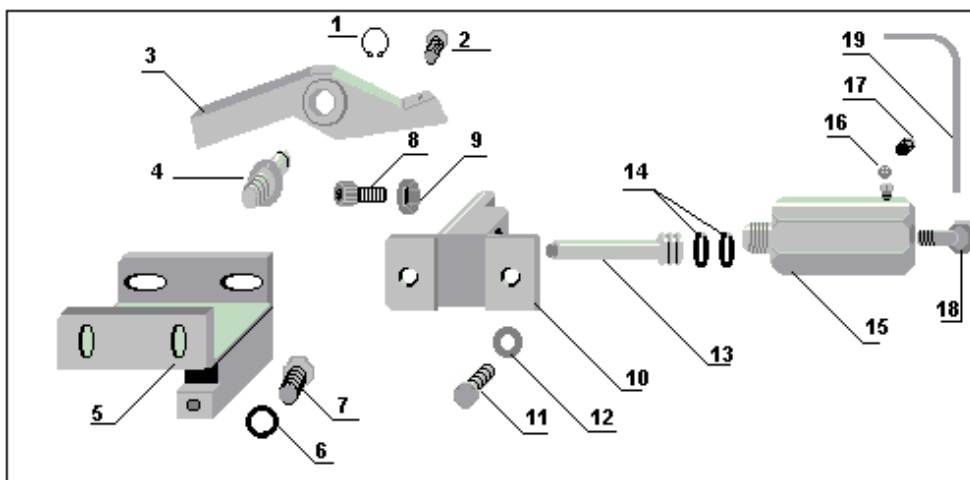
SPEED REGULATOR, UPPER ASSEMBLY - FIGURE 4.1



Speed Regulator, Upper Assembly – Figure 4.1

ITEM	PART NAME	PART NO.	V/E-16	V-24	VH-24	V-40	VH-40
1	Connection Fitting	81891	1	1	1	1	1
2	Seal Washer	80576	1	1	1	1	1
3	Plug	81893	1	1	1	1	1
4	Seal Washer	80576	1	1	1	1	1
5	Cylinder Body	81894	1	1	1	1	1
6	Cap Screw	80625	3	3	3	3	3
7	O-ring 19.3x2.4mm	80563	2	2	2	2	2
8	Piston	81895	1	1	1	1	1
9	Piston Nut	81896	1	1	1	1	1
10	Hand Wheel and Handle	80500/80501	1	1	1	1	1
11	Set Screw 6mm x 10mm 8 pitch	80529	1	1	1	1	1
12	Jam Nuts		2	2	2	2	2
	Complete Assembly	714813	1	1	1	1	1

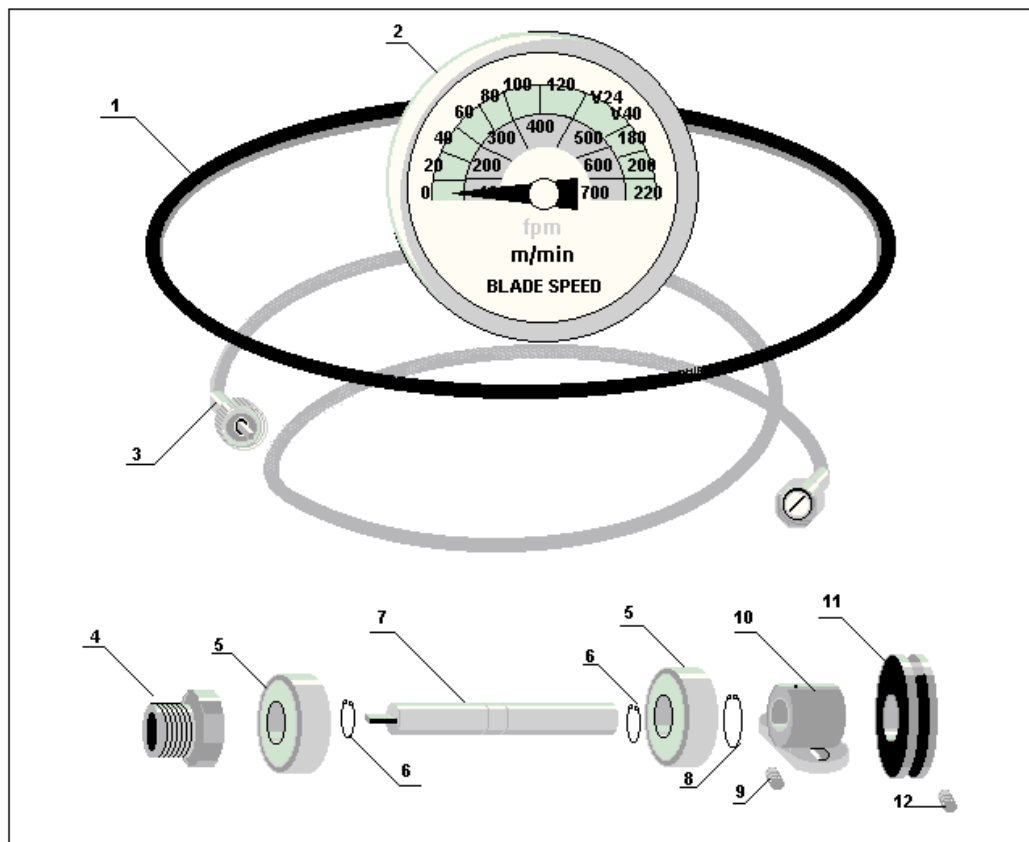
SPEED REGULATOR, LOWER ASSEMBLY - FIGURE 4.2



Speed Regulator, Lower Assembly – Figure 4.2

ITEM	PART NAME	PART NO.	V/E-16	V-24	VH-24	V-40	VH-40
1	Snap Ring	81829	1	1	1	1	1
2	Bolt	81897	1	1	1	1	1
3	Lever Casting	80666	1	1	1	1	1
4	Special Pivot Bolt	80667	1	1	1	1	1
5	Bracket	80665	1	1	1	1	1
6	Washer	81507	2	2	2	2	2
7	Cap Screw	81898	2	2	2	2	2
8	Cap Screw	81899	1	1	1	1	1
9	Nut	81900	1	1	1	1	1
10	Bracket	81901	1	1	1	1	1
11	Cap Screw	81902	2	2	2	2	2
12	Washer	81507	2	2	2	2	2
13	Piston	81903	1	1	1	1	1
14	O-Ring 3x2x4mm	80564	2	2	2	2	2
15	Cylinder	81904	1	1	1	1	1
16	Ball	81905	1	1	1	1	1
17	Screw	80592	1	1	1	1	1
18	Connection Fitting	81891	1	1	1	1	1
19	Copper Tubing		1	1	1	1	1
	Complete Assembly	714836	-	1	1	1	1
	Complete Assembly	714829	1	-	-	-	-

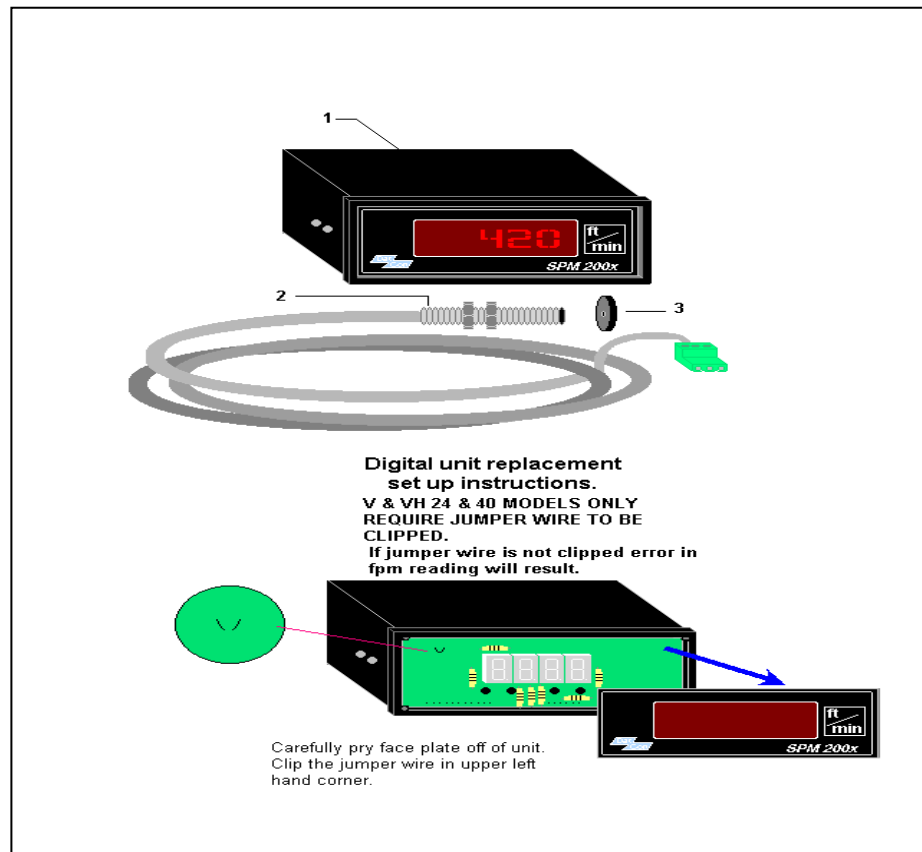
TACHOMETER ASSEMBLY - FIGURE 4.3 / 4.4



Tachometer Assembly – Figure 4.3 / 4.4

ITEM	PART NAME	PART NO.	V/E-16	V-24	VH-24	V-40	VH-40
1	Belt 8 x 6 OD x G.E. 2-05.0	80536	1	-	-	1	1
1	Belt 8 x 670 x GE. 2.05.0	80534	-	1	1	-	-
2	Tachometer Gauge	80507	1	1	1	1	1
3	Tachometer Drive Cable (V-16 & 24 obsolete)	714812	-	-	-	1	1
4	Threaded Sleeve	81906	1	1	1	1	1
5	Bearing	81907	2	2	2	2	2
6	Snap Ring	81829	2	2	2	2	2
7	Shaft	81908	1	1	1	1	1
8	Snap Ring	81909	1	1	1	1	1
9	Set Screw	81911	1	1	1	1	1
10	Carrier Block	81910	1	1	1	1	1
11	Pulley	81912	-	1	1	-	-
11	Pulley	81913	1	-	-	1	1
12	Set Screw	81741	1	1	1	1	1

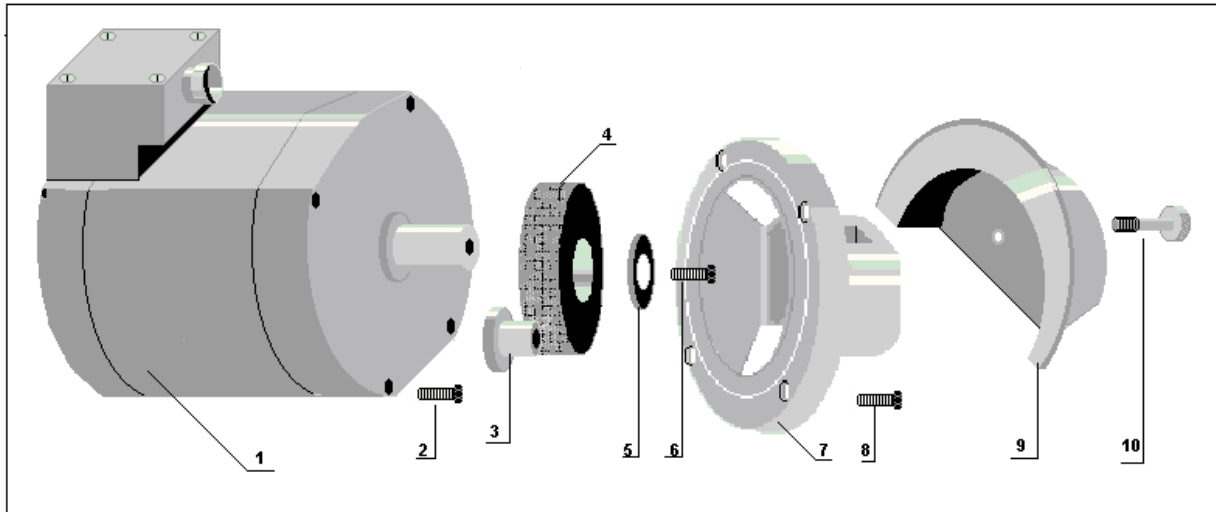
Digital Tachometer Assembly – Figure 4.3 / 4.4



Digital Tachometer Assembly – Figure 4.3 / 4.4

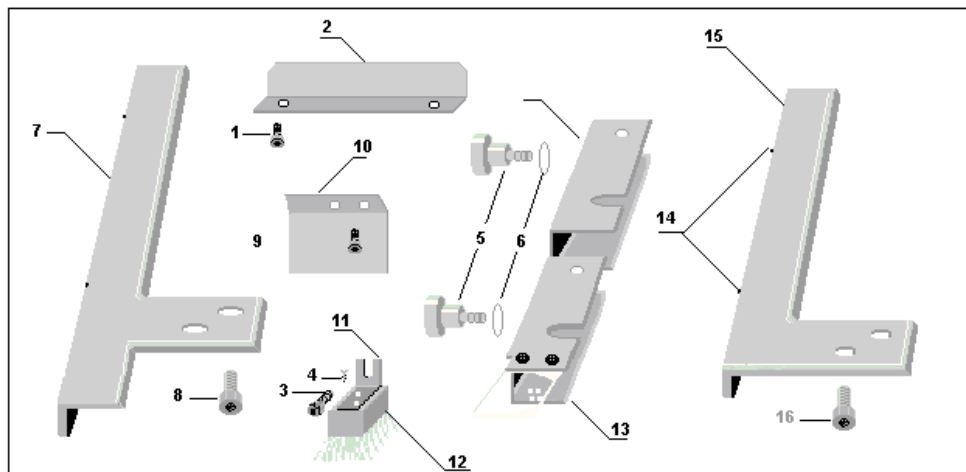
ITEM		
1	Digital Display	
2		
3		
N/A	Adaptor for prox. sensor	302510

MOTOR AND GRINDING WHEEL ASSEMBLY - FIGURE 4.5



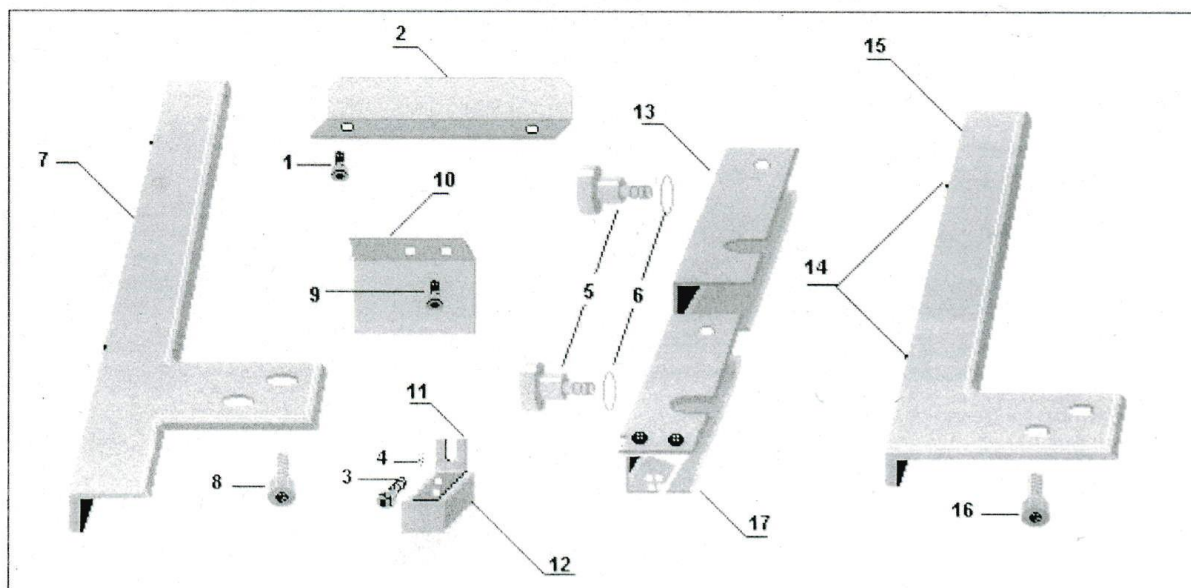
BLADE GUARD AND BRUSH - FIGURE 4.6

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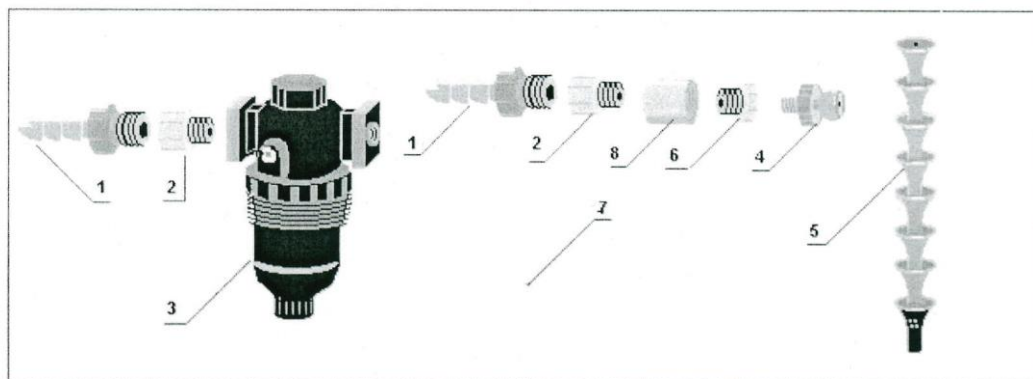
BLADE GUARD AND BRUSH - FIGURE 4.6



Blade Guard & Brush – Figure 4.6

ITEM	PART NAME	PART NO.	V/E-16	V-24	VH-24	V-40	VH-40
1	Screw	81924	2	2	2	2	2
2	Grinder Cover Guard	81925	1	1	1	1	1
3	Brush Mounting Bolt	81926	1	1	1	1	1
4	Wood Screw	81924	2	2	2	2	2
5	Knurled Thumb Screws	81526	-	2	2	-	-
6	Washer	80527	-	2	2	-	-
7	Blade Guard	81934	1	-	-	1	1
8	Cap Screw	80265	2	2	2	2	2
9	Mounting Screw	81926	2	2	2	2	2
10	Chip Wheel Guard	81929	1	1	1	1	1
11	Brush Holder	81930	1	1	1	1	1
12	Wire Chip Brush	81931	1	1	1	1	1
13	Upper Blade Cover	81932	-	1	1	-	-
14	Alignment Screws	81933	2	2	2	2	2
15	Blade Guard	80527	-	-	-	1	1
16	Cap Screw	80625	2	2	2	2	2
17	Lower Blade Cover w/ Plexiglas	78205	-	1	1	1	1
17	Lower Blade Cover w/ Plexiglas	78206	1	-	-	-	-
	Blade Guard V-24	80653	-	1	1	-	-
	Cover	84839	1	-	-	1	1

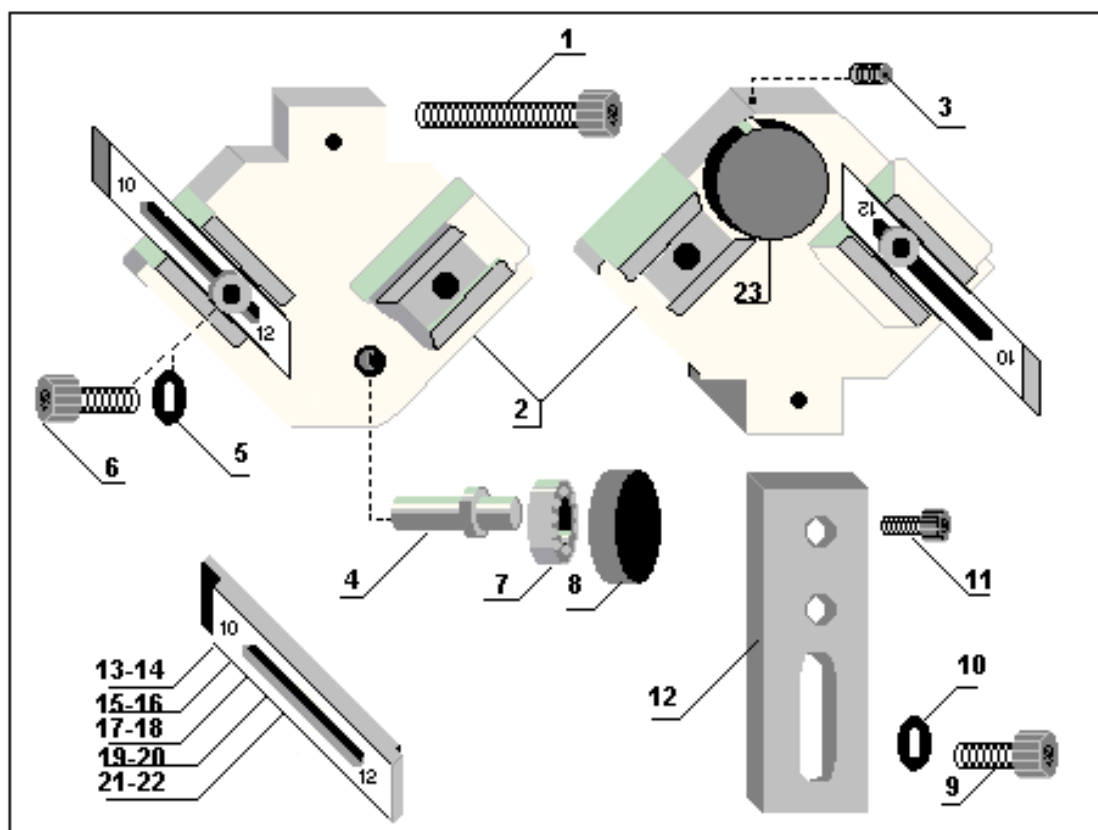
CHIP BLOWER REGULATOR - FIGURE 4.7



Chip Blower & Regulator – Figure 4.7

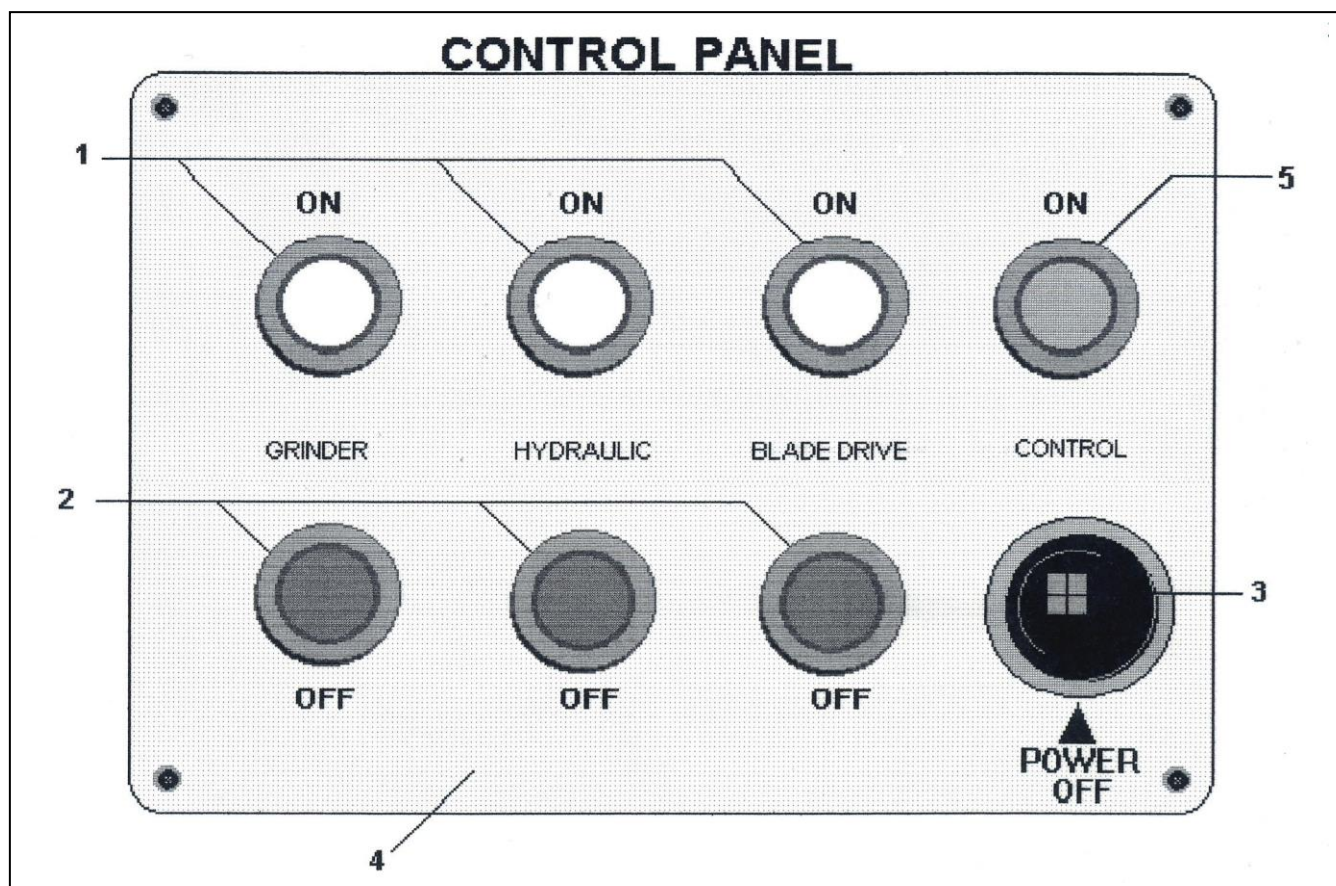
ITEM	PART NAME	PART NO.	V/E-16	V-24	VH-24	V-40	VH-40
	Chip Blower Kit	300668	1	1	1	1	
1	Hose Barb	35087	2	2	2	2	2
2	Reducer Fitting		2	2	2	2	2
3	Pre-Set Air Regulator	77269	1	1	1	1	1
4	Lock Line Pivot Fitting	77328	1	1	1	1	1
5	Flex Line Nozzle Assembly	77327/77326	1	1	1	1	1
6	Reducer Fitting		1	1	1	1	1
7	Plastic Air Hose		1	1	1	1	1
8	Coupling Fitting		1	1	1	1	1

BLADE GUIDE ASSEMBLY - FIGURE 4.8



Blade Guide Assembly – Figure 4.8

ITEM	PART NAME	PART NO.	V/E-16	V-24	VH-24	V-40	VH-40
1	Cap Screw	81781	2	-	-	2	2
1	Cap Screw	81778	-	2	2	-	-
2	Blade Guide Holder	81935	2	2	2	2	2
3	Set Screw	81936	2	2	2	2	2
4/7/8	Rear Bearing Guide Assembly	80586	2	2	2	2	2
5	Washer	81938	4	4	4	4	4
6	Cap Screw	64179	4	4	4	4	4
9	Cap Screw	80521	1	1	1	1	1
10	Washer	43632	1	1	1	1	1
11	Cap Screw	81707	2	2	2	2	2
12	Lower Guide Mounting Plate	81941	1	1	1	1	1
13/14	Guide Inserts (Optional) 3mm/4mm	714816	2	2	2	2	2
15/16	Guide Inserts (Optional) 6mm/8mm	714817	2	2	2	2	2
16/17	Guide Inserts (Standard) 10mm/12mm	714818	2	2	2	2	2
17/18	Guide Inserts (Optional) 16mm/20mm	714819	2	2	2	2	2
19/20	Guide Inserts (Optional) 25mm/32mm	714820	2	2	2	2	2
	High Speed Roller Guides	81969	1 set	1 set	1 set	1 set	1 set
	Upper & Lower Guide Assembly (Items 1-8)	714838A	1	1	1	1	1

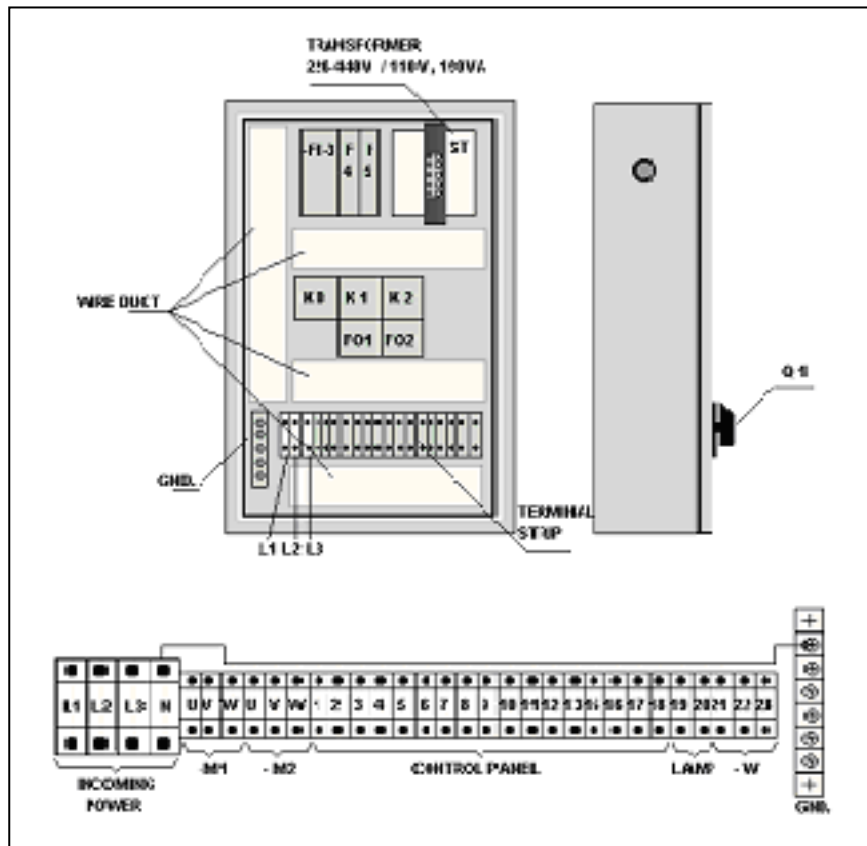


Control Panel

ITEM	PART NAME	PART NO.	V-16	V-24	VH-24	V-40	VH-40
1	Start Push Button	716688	2	2	3	2	3
1	Indicator Lamp	80638	2	2	3	2	3
2	Stop Push Button	716539	2	2	3	2	3
3	Emergency Stop Button	716538	1	1	1	1	1
3	Mushroom Push Button	N/A	1	1	1	1	1
4	Face Plate	80679	1	1	1	1	1
5	Lighted Push Button Power Up (yellow)	716689	1	1	1	1	1

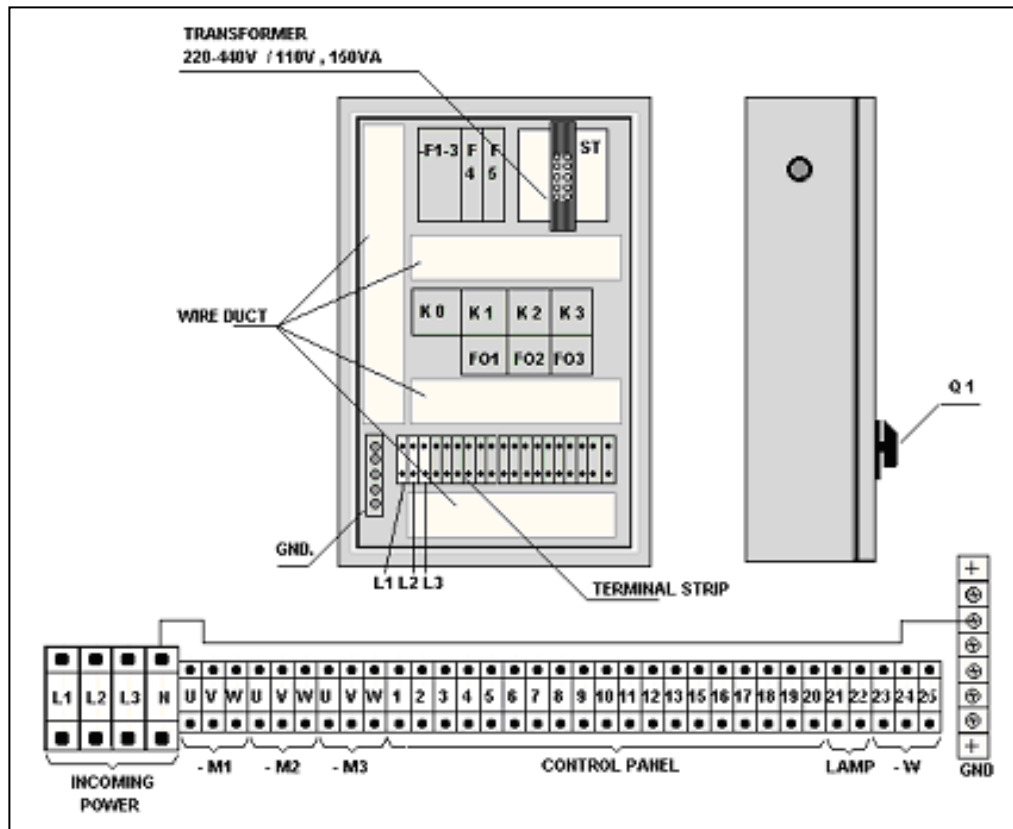
ITEM	PART NAME (NOT SHOWN)	PART NO.	V/E-16	V-24	VH-24	V-40	VH-40
	Door Microswitch	80553	4	4	4	5	5
	Door Latch	80637					
	Door Key – (Old style square bottom)	81968					
	Door Key – (New style metal)	80511	1	1	1	1	1
	Main Cam Switch 1-7/8" square – Smaller	80554	1	1	1	1	1
	Main Cam Switch 2-5/8" square – Larger	80554L	1	1	1	1	1

ELECTRICAL PANEL LAYOUT V-16, V-24 & V-40 Models

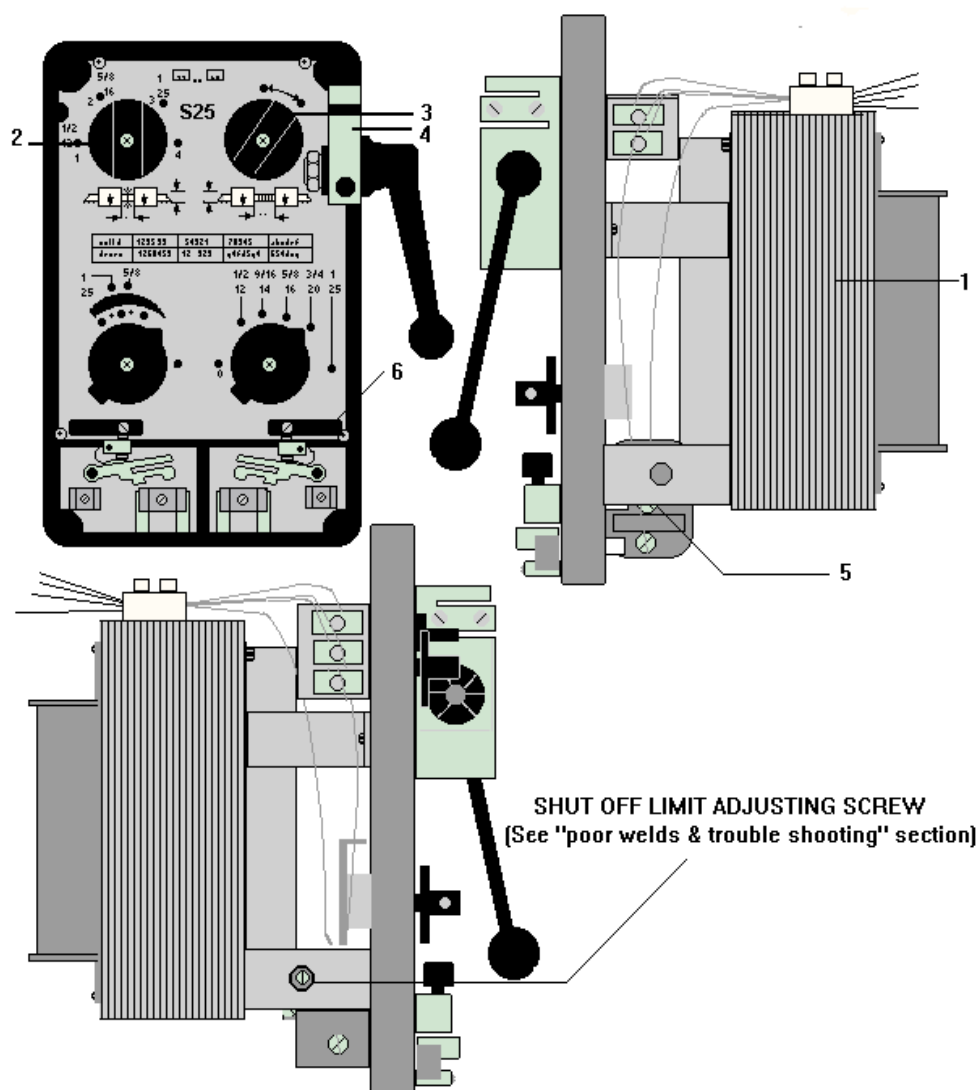


ITEM	PART NAME (NOT SHOWN)	PART NO.	V/E-16	V-24	VH-24	V-40	VH-40
ST	Transformer	81951	1	1		1	
K1	Contactor	300123	1	-		-	
	Relay Overload for K1, 3.2-5.0 Amps	300241	1	-	SEE NEXT PAGE	-	SEE NEXT PAGE
	Relay Overload for K1,	300119	-	1		1	
K2	Contactor	300123	1	-		-	
	Relay Overload for K2,	300121	1	1		1	
K3	Contactor	300123	1	-		-	

ELECTRICAL PANEL LAYOUT VH-24 & VH-40 Models



ITEM	PART NAME (NOT SHOWN)	PART NO.	V/E-16	V-24	VH-24	V-40	VH-40
ST	Transformer				1		1
K1	Contactor	300120			1		1
	Relay Overload for K1	300119	SEE PRIOR PAGE	SEE PRIOR PAGE	1	SEE PRIOR PAGE	1
K2	Contactor	300121			1		1
	Relay Overload for K2	300121			1		1
K3	Contactor	300118			1		1



WELDER

ITEM	PART NAME	PART NO.	V-16	V-24	VH-24	V-40	VH-40
	Welding Device S25 220/400 V.	72615	-	1	1	1	1
	Welding Device S16 220/440 V.	72614	1	-	-	-	-
1	Transformer S-25	77400	-	1	1	1	1
1	Transformer S-16	77399	1	-	-	-	-
2	Weld Current Switch	80621	1	1	1	1	1
3	Anneal Switch	81965	1	1	1	1	1
4	Shear Blade Set	80508	1	1	1	1	1
5	Microswitch ISK TYPM6	80552	2	2	2	2	2
6	Lever Jaw Clamp	76056	2	2	2	2	2

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