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# *PARTS* *MANUAL* **PREDATOR POLISHER/GRINDER**

P-3200



**ORIGINAL  
LANGUAGE**

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**ORIGINAL LANGUAGE PARTS MANUAL FOR  
 PREDATOR POLISHER/GRINDER**

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Revision	Date	Description	Approved by.
0	02/2011	Initial release	RL
01	07/2012	Drum assembly part number update.	AL

# PARTS BOOK

## P-3200

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# PARTS LIST 1

## P-3200

### GRINDER FINAL ASSEMBLY

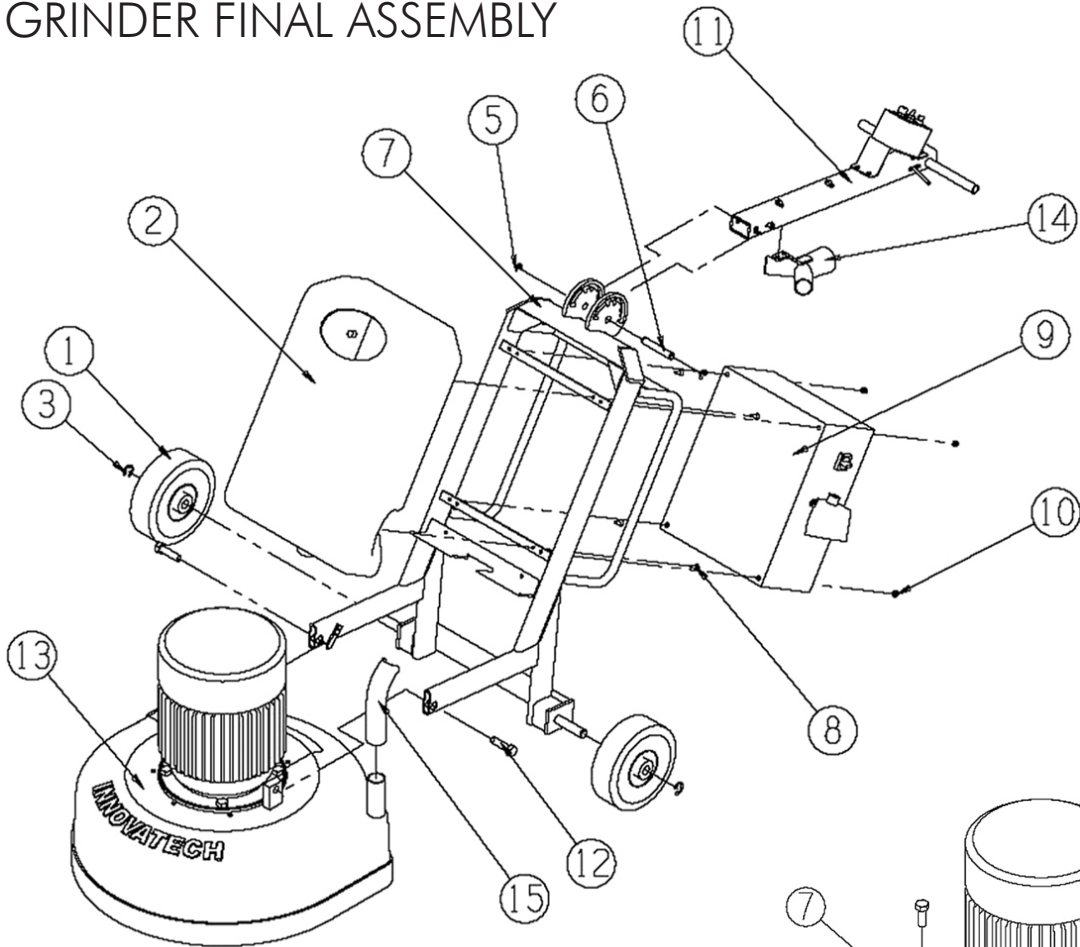


Fig. 1 - Grinder Assembly Complete

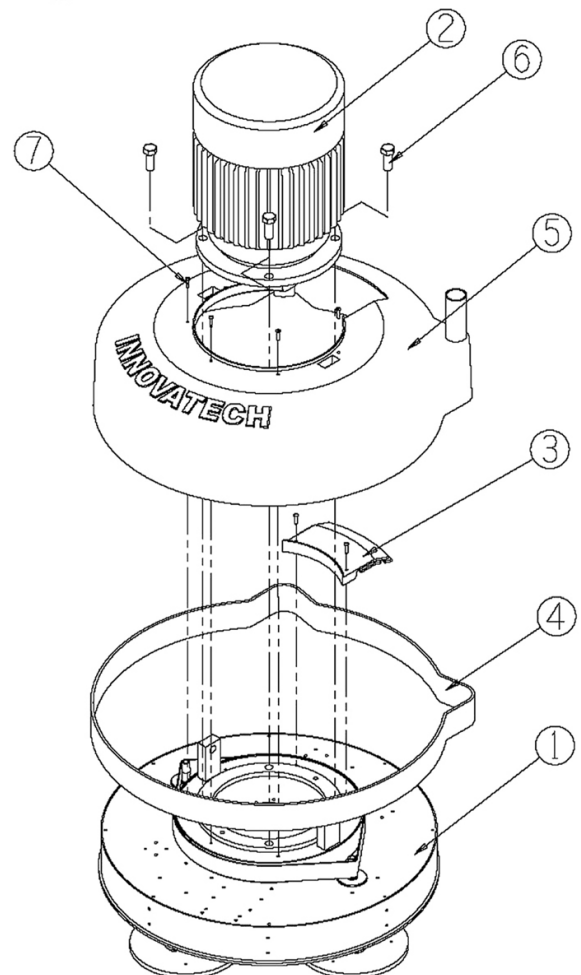


Fig. 2 - Grinder Head Assembly

# PARTS LIST 1

## P-3200

### GRINDER FINAL ASSEMBLY

Fig. 1 - Grinder Assembly Complete

ITEM NO.	PART NO.	DESCRIPTION	QTY.	REMARK
1	85069	WHEEL	2	
2	85212	WATER TANK	1	
3	10091	LYNCH PIN,3/16"	2	
5	10092	RETAINING CLIP,E-STYLE,7/8"	2	
6	85070	HANDLE HINGE PIN	1	
7	85301	FRAME	1	
8	10382	FHMS,5/16"-8X3/4"	4	
9	85213	INVERTER BOX	1	
10	10383	NUT,NYLOCK,3/8-16 THREADS	4	
11	85214	HANDLE ASSEMBLY	1	
12	10384	HANDLE ASSY	2	
13	85302	GRINDER HEAD	1	
14	85060	VACUUM TEE	1	
15	85059	VACUUM HOSE, 2"DIA	2	

### GRINDER HEAD

Fig. 2 - Grinder Head Assembly

ITEM NO.	PART NO.	DESCRIPTION	QTY.	REMARK
1	85303	DRUM DRIVE ASSEMBLY	1	
2	85215	MOTOR, 15HP, 1800RPM, 230/460V	1	
3	85216	GRINDER COVER	1	
4	85272	SPLASH GUARD	1	
5	85217	GRINDER COVER ASSEMBLY	1	
6	10399	HHCS, 3/4"-10X2"	4	
7	10098	HHCS, 1/4"-20X1-1/4"	7	

# PARTS LIST 2

## P-3200

### GRINDER HANDLE ASSEMBLY

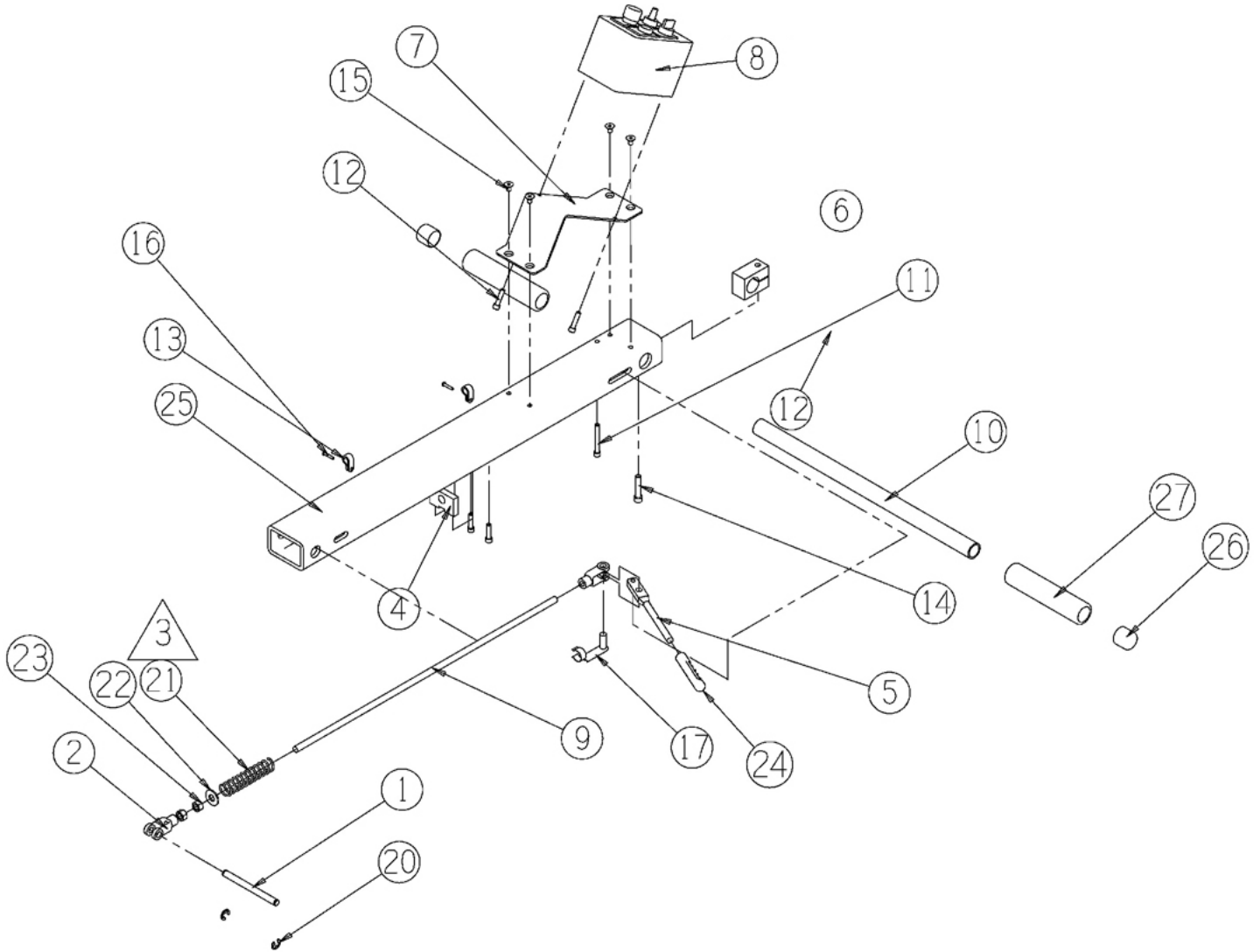


Fig. 3 - Grinder Handle Assembly

# PARTS LIST 2

## P-3200

### GRINDER HANDLE

Fig. 3 - Grinder Handle

ITEM NO.	PART NO.	DESCRIPTION	QTY.	REMARK
1	85218	HANDLE LOCK ROD	1	
2	85219	YOKE END	2	
3	85220	HANDLE	1	
4	85221	SPRING TENSION BLOCK	1	
5	85222	QUICK CHANGE LEVER	1	
6	85304	HANDLE GRIP CLAMP	1	
7	85063	CONTROL BOX MOUNT	1	
8	85157	[POWER] CONTROL BOX	1	
9	85223	THREADED ROD, 3/8"-24UNF x 2 3/4"	1	
10	85224	HANDLE GRIP	1	
11	10385	SHCS, 1/4"-20UNC x 2" LG	1	
12	10386	SHCS, 1/4"-20UNC x 1" LG	4	
13	85064	CABLE STRAP, 1/2"	2	
14	10387	SHCS, 3/8"-16UNC x 1-1/2" LG	1	
15	10388	FHSCS, 1/4"-20UNC x 1/2" LG	2	
16	10389	PHSCS, #8-32UNFX3/4"	1	
17	85274	CLEVIS SPRING PIN	1	
20	10390	RETAINING RING, E-STYLE, 3/8" DIA	1	
21	85225	SPRING, 7/8" OD x 4" LONG	1	
22	10905	WASHER, 3/8"	1	
23	10398	NUT, 3/8"-24UNF	3	
24	85275	GRIP COVER, 3/8" DIA	1	

# PARTS LIST 3

## P-3200

### CONTROLS & INVERTER BOX

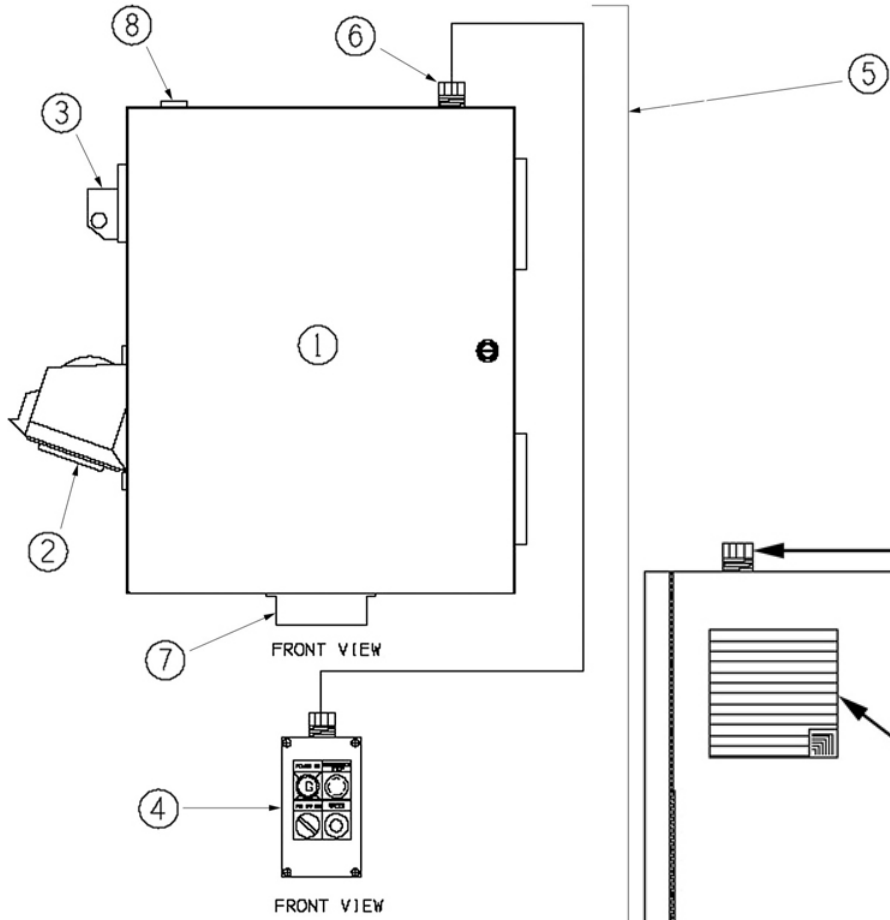


Fig. 4 - Controls & Inverter

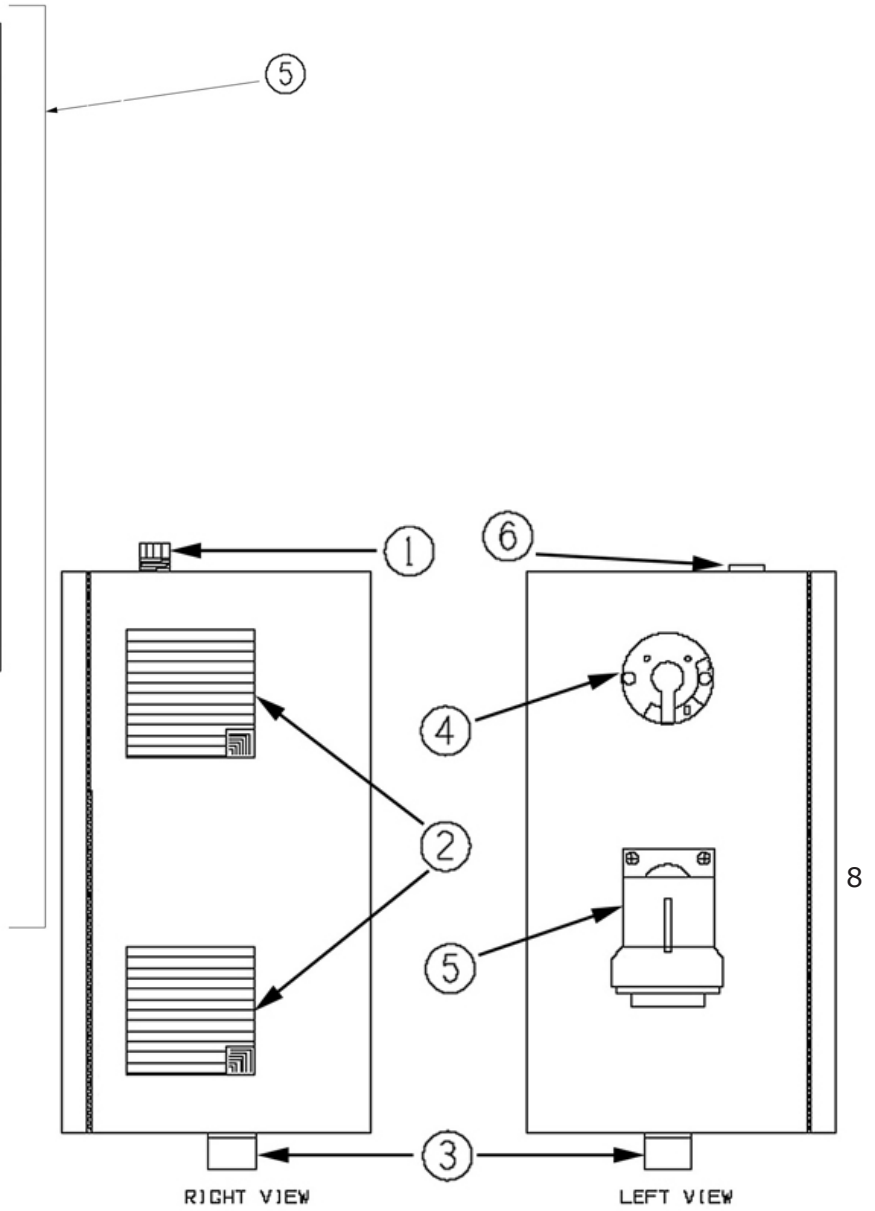


Fig. 5 - Inverter Side Views

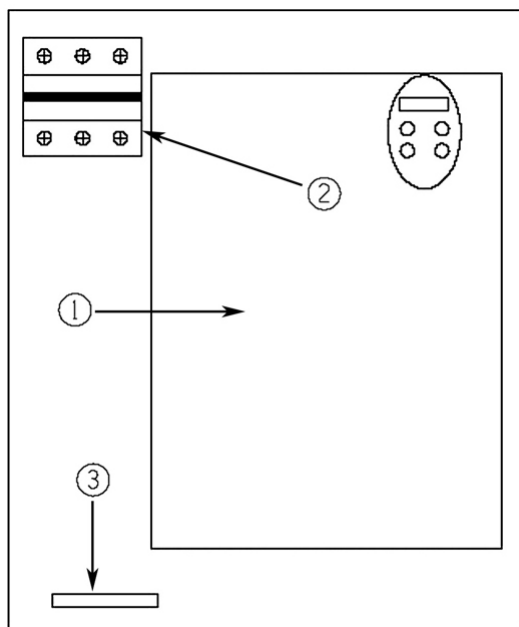


Fig. 6 - Inverter Backpan



# PARTS LIST 3

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### CONTROLS AND INVERTER BOX

Fig. 4 - Controls & Inverter

ITEM NO.	PART NO.	DESCRIPTION	QTY.	REMARK
1	85213	STEEL ENCLOSURE	1	
2	85226	480 VOLT FLANGED INLET	1	
3	85227	ON/OFF SWITCH/CIRCUIT BREAKER	1	
4	85157	CONTROL BOX	1	
5	85228	COMPLETE INVERTER BOX W/ INVERTER AND CONTROL BOX	1	
6	85276	WIRE STRAIN RELIEF	1	
7	85162	QUICK DISCONNECT	1	
8	85159	HOUR METER	1	

### CONTROLS AND INVERTER BOX

Fig. 5 - Inverter Side Views

ITEM NO.	PART NO.	DESCRIPTION	QTY.	REMARK
1	85229	CONTROL BOX WIRE STRAIN RELIEF	1	
2	85230	COVER VENT	2	
3	85162	INVERTER TO MOTOR CONNECTION RING	1	
4	85227	ON/OFF SWITCH	1	
5	85226	480 VOLT FLANGED INLET	1	
6	85159	HOUR METER	1	

### INSIDE INVERTER BOX

Fig. 6 - Inverter Backpan

ITEM NO.	PART NO.	DESCRIPTION	QTY.	REMARK
1	85231	INVERTER	1	
2	85227	ON/OFF SWITCH/CIRCUIT BREAKER	1	
3	85305	BUS BAR	1	

# PARTS LIST 4

## P-3200

### DRUM DRIVE UNIT ASSEMBLY

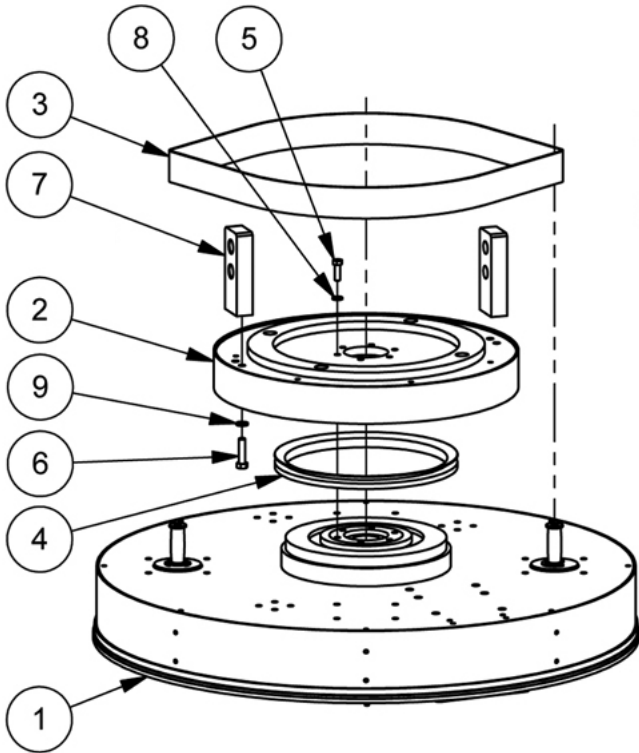
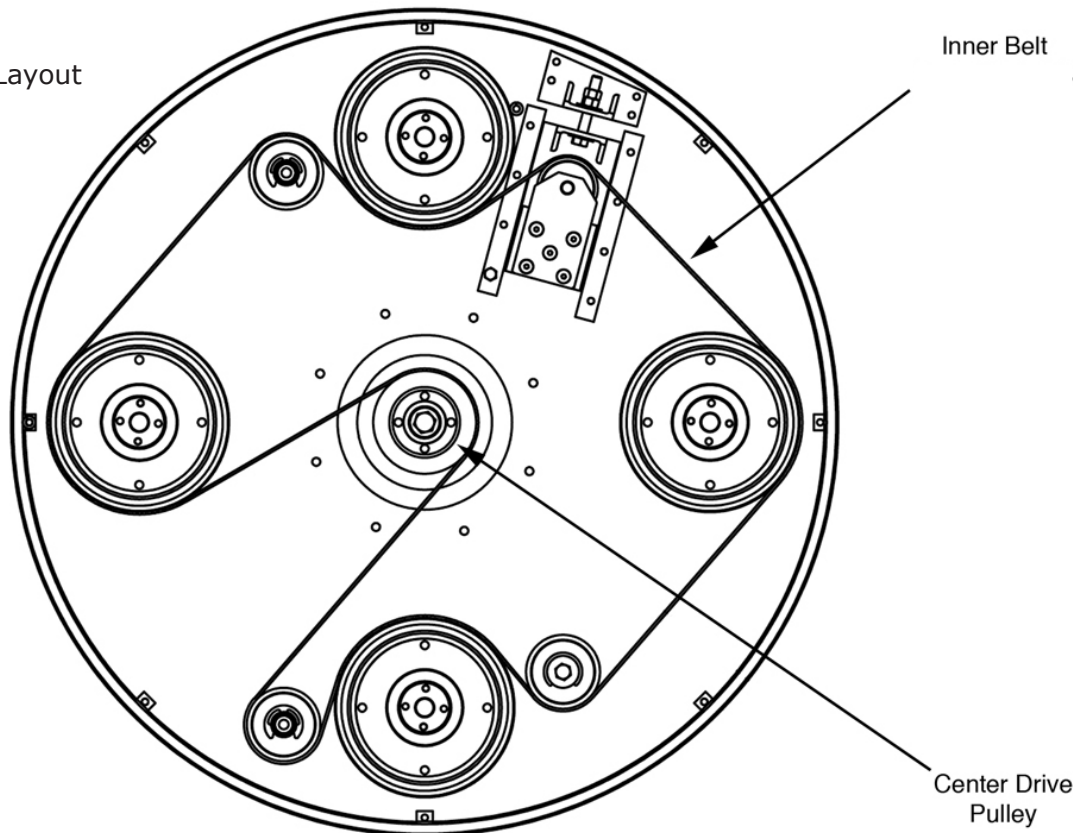


Fig. 7 - Drum Drive Unit Assembly

Fig. 8 - Drive Belt Routing Layout



ATTENTION: BELT'S GREY COLORED SIDE TO FACE TOWARD CENTER DRIVE PULLEY.

# PARTS LIST 4

## P-3200

### DRUM DRIVE UNIT

Fig. 7 - DRUM DRIVE UNIT ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	QTY.	REMARK
1	85312	DRUM ASSEMBLY	1	
2	85232	MOTOR BASE ASSEMBLY	1	
3	85233	BELT, 1-7/8" W X 59-3/4" L	1	
4	10391	V-RING SEAL, 225ID X 25MM W	1	
5	10199	HHCS, 5/16"-18UNC x 1" LG	6	
6	10099	HHCS, 3/8"-16UNC x 1 1/2" LG	4	
7	85234	POST, 1 X 2 X 5" LONG	2	
8	10402	WASHER, FLAT, 5/16"	6	
9	10902	LOCKWASHER, 3/8"	4	



# PARTS LIST 5

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### DRUM ASSEMBLY

Fig. 9 - DRUM ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	QTY.	REMARK
1	85090	IDLER ASSEMBLY	3	
2	85235	TENSIONER SLIDING TRACK	2	
3	85236	BEARING ASSEMBLY	1	
4	10355	NUT, 3/8"-16UNC	2	
5	981120	WASHER (SAE), 3/8"	1	
6	85237	TENSIONER STATIONARY ANCHOR	1	
7	85238	TENSIONER SLIDING UNIT ASSEMBLY	1	
8	85239	PULLEY (CENTER DRIVE) ASEMBLY	1	
9	10521	LOCKWASHER, 1/4"	10	
10	50316	HHCS, 1/4"-20UNC x 1" LG	4	
11	10356	HHCS, 5/16"-18UNC x 3/4" LG	52	
12	30181	HHCS, 3/8"-16UNC x 3/4" LG	3	
13	10905	WASHER, 3/8"	6	
14	12418	NUT, 1/4"-20UNC	4	
15	85240	BELT	1	
16	85241	DRUM TOP/BOTTOM PLATE	1	
17	10963	HHCS, 1/4"-20UNC x 3/4" LG	6	
18	85242	CUTTER HEAD PULLEY ASSEMBLY (FLANGED)	1	
19	85243	CUTTER HEAD PULLEY ASSEMBLY (INSERTED)	1	
20	85244	CUTTER HEAD PULLEY ASSEMBLY - CAST UNIT	2	
21	10402	WASHER, FLAT, 3/8"	56	

# PARTS LIST 6

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### DRUM HOUSING ASSEMBLY

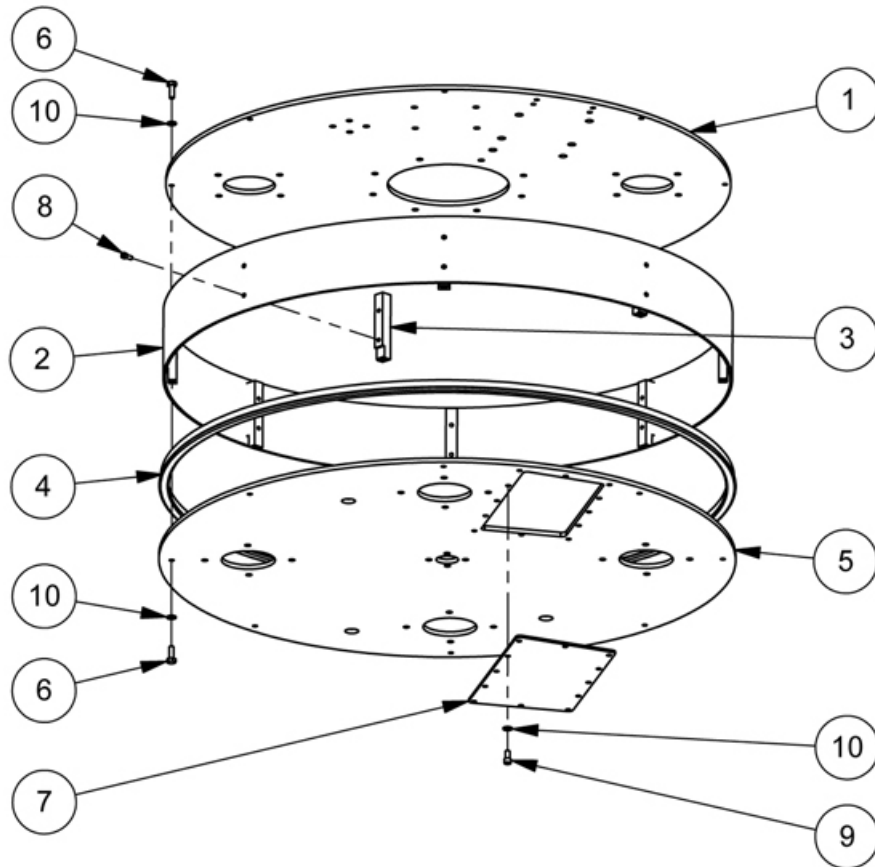


Fig. 10 - Drum Housing Assembly

### BELT TENSIONER ASSEMBLY

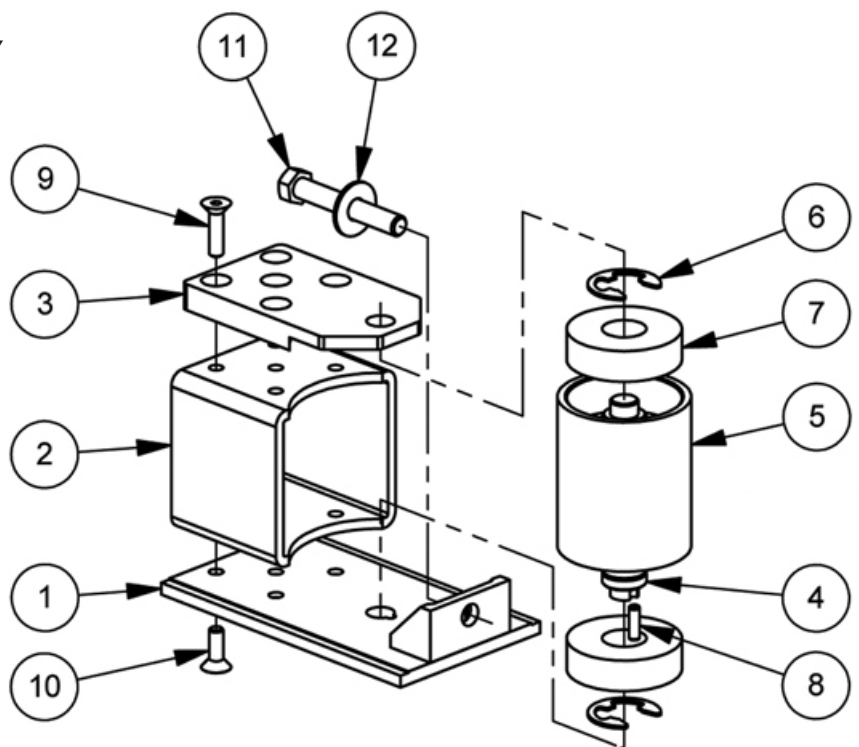


Fig. 11 - Belt Tensioner Assembly

# PARTS LIST 6

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### DRUM ENVELOPE

Fig. 10 - DRUM ENVELOPE ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	QTY.	REMARK
1	85245	DRUM TOP PLATE	1	
2	85246	DRUM SIDE WALL	1	
3	85099	SPACER BAR	8	
4	85128	SEAL (EDGE TRIM)	1	
5	85249	DRUM BOTTOM PLATE	1	
6	10963	HHCS, 1/4"-20UNC x 3/4" LG	16	
7	85250	COVER PLATE (TENSIONER ACCESS HOLE)	1	
8	10358	SHCS, #10-24UNC x 1/2" LG	16	
9	10359	SHCS, 1/4"-20UNC x 1/2" LG	12	
10	10521	LOCKWASHER, 1/4"	28	

### TENSION SLIDING UNIT

Fig. 11 - TENSION SLIDING UNIT ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	QTY.	REMARK
1	85251	TENSIONER SLIDING BASE	1	
2	85252	TENSIONER HEIGHT SUPPORT BLOCK	1	
3	85253	TENSIONER TOP PLATE	1	
4	85133	SHAFT, 0.787 DIA	1	
5	85134	IDLER, 2-3/8"DIA X 7/8" DIA. SHAFT	1	
6	10092	RETAINING RING, E-STYLE, 7/8"DIA	2	
7	10362	BEARING, 20ID X 52OD X 15 H	2	
8	10363	DOWEL PIN, 3/6"DIA X 5/8 LONG	1	
9	10373	FHHCS, 1/4"-20UNC x 1" LG	5	
10	10361	FHCS, 1/4"-20UNC x 3/4" LG	5	
11	10260	HHCS, 3/8"-16UNC x 2 1/2" LG	1	
12	981120	WASHER, FLAT, SAE, 3/8"	1	

# PARTS LIST 7

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### BEARING ASSEMBLY

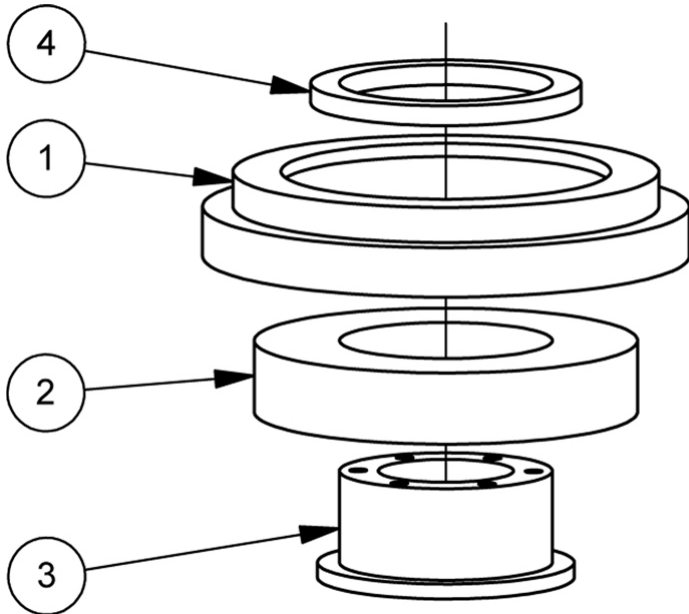


Fig. 12 - Bearing Assembly

### CUTTER HEAD ASSEMBLIES

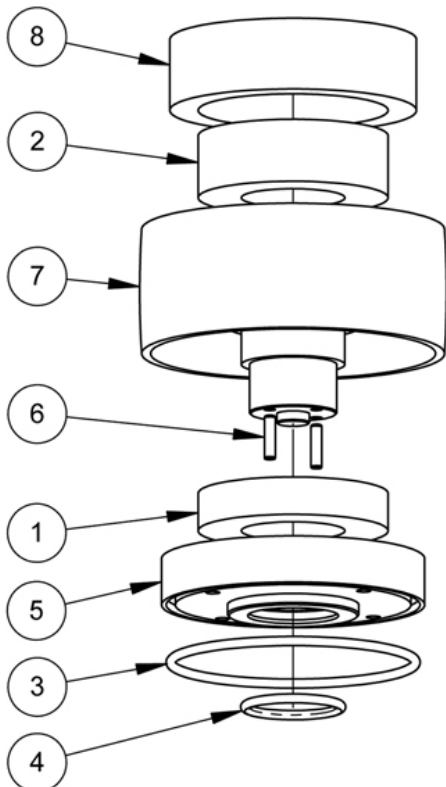


Fig. 13 - Cutter Head Pulley Assembly



# PARTS LIST 7

## P-3200

### BEARING ASSEMBLY

Fig. 12 - BEARING ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	QTY.	REMARK
1	85254	BEARING HOUSING (ROTATING DRUM CONNECTION, OUTER HOUSING)	1	
2	10394	BEARING, 110ID X 200OD X 38H MM	1	
3	85255	BEARING HOUSING (ROTATING DRUM CONNECTION, INNER HOUSING)	1	
4	10395	SPACER RING, 4.332ID X 5.4OD X 3/8"	1	

### CUTTER HEAD PULLEY ASSEMBLY

Fig. 13 - CUTTER HEAD PULLEY ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	QTY.	REMARK
1	10365	BEARING, 60ID X 110OD X 22H MM	1	
2	10366	BEARING, 60ID X 110OD X 36.5H MM	1	
3	10377	O-RING, 5-3/8"X5-3/4"ODX3/16"W	1	
4	10378	O-RING, 2"IDX2-3/8"ODX3/16"W	1	
5	85138	BEARING HOUSING (CUTTER HEAD, BOTTOM)	1	
6	10379	DOWEL, PIN, 1/4"DIA X 1"LONG	2	
7	85139	CUTTER HEAD PULLEY - CAST UNIT	1	
8	85256	BEARING HOUSING (CUTTER HEAD, TOP)	1	



# PARTS LIST 8

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### CUTTER HEAD PULLEY ASSEMBLY

Fig. 14 - FLANGED TOP PULLEY

ITEM NO.	PART NO.	DESCRIPTION	QTY.	REMARK
1	85141	CUTTER HEAD PULLEY (W/FLANGED TOP PULLEY) - CAST UNIT	1	
2	10366	BEARING, 60ID X 110OD X 36.5H MM	1	
3	10365	BEARING, 60ID X 110OD X 22H MM	1	
4	10380	WOODRUFF KEY, 3/8" DIA X 1/16"THK	1	
5	10367	O-RING, 1-1/4"ID X 1-5/8"OD X 3/16"W	1	
6	10368	V-RING SEAL, 45ID X 9H MM	1	
7	10369	RETAINING RING, E-STYLE, 1"	1	
8	10377	O-RING, 5-3/8"ID X 5-3/4"OD X 3/16"W	2	
9	10378	O-RING, 2ID X 2-3/8OD X 3/16"W	1	
10	85138	BEARING HOUSING (CUTTER HEAD, BOTTOM)	1	
11	85257	BEARING HOUSING (CUTTER HEAD, W/ TOP PULLEY PROVISION)	1	
12	85143	COVER DISC (DUST SEAL), 2.75" DIA	1	
13	10379	DOWEL PIN, 1/4"DIA X 1"LONG	2	

# PARTS LIST 9

## P-3200

### CUTTER HEAD (INSERTED) ASSEMBLY

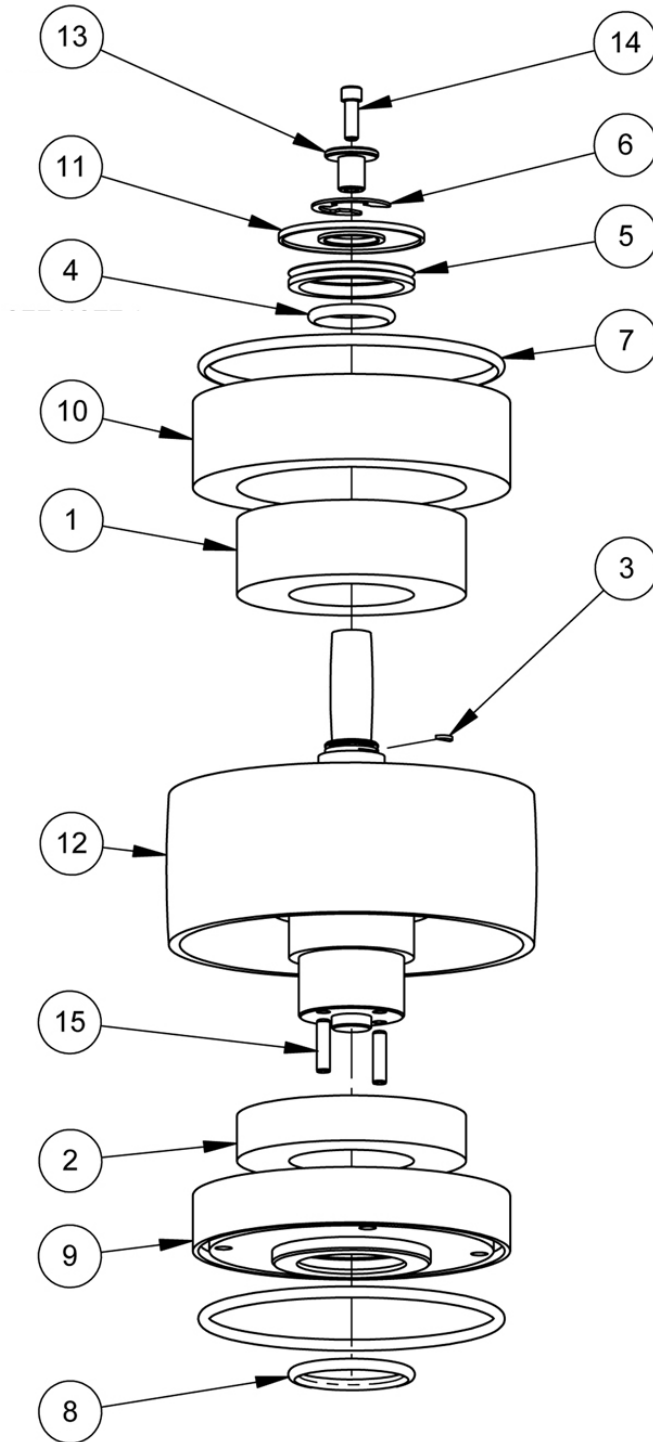


Fig. 15 - Cutter Head (Inserted) Assembly

# PARTS LIST 9

## P-3200

### CUTTER HEAD PULLEY ASSEMBLY

Fig. 15 - INSERT-FLANGED TOP PULLEY

ITEM NO.	PART NO.	DESCRIPTION	QTY.	REMARK
1	10366	BEARING, 60ID X 110OD X 36.5H MM	1	
2	10365	BEARING, 60ID X 110OD X 22H MM	1	
3	10380	WOODRUFF KEY, 3/8"DIA X 1/16"THK	1	
4	10367	O-RING, 1-1/4"ID X 1-5/8"OD X 3/16"W	1	
5	10368	V-RING SEAL, 45ID X 9H MM	1	
6	10369	RETAINING RING, E-STYLE, 1"	1	
7	10377	O-RING, 5-3/8"X5-3/4"ODX3/16"W	2	
8	10378	O-RING, 2IDX2-3/8"ODX3/16"W	1	
9	85138	BEARING HOUSING (CUTTER HEAD, BOTTOM)	1	
10	85257	BEARING HOUSING (CUTTER HEAD, W/ TOP PULLEY PROVISION)	1	
11	85143	COVER DISC (DUST SEAL, 2.75"DIA	1	
12	85144	CUTTER HEAD PULLEY (W/ NON-FLANGED TOP PULLEY) - CAST UNIT	1	
13	85145	FLANGE INSERT (FOR TOP DRIVE PULLEY)	1	
14	10213	SHCS, 1/4"-20X3/4"	1	
15	10379	DOWEL PIN, 1/4"DIA X1"LONG	2	

# PARTS LIST 10

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### DRIVE PULLEY ASSEMBLY

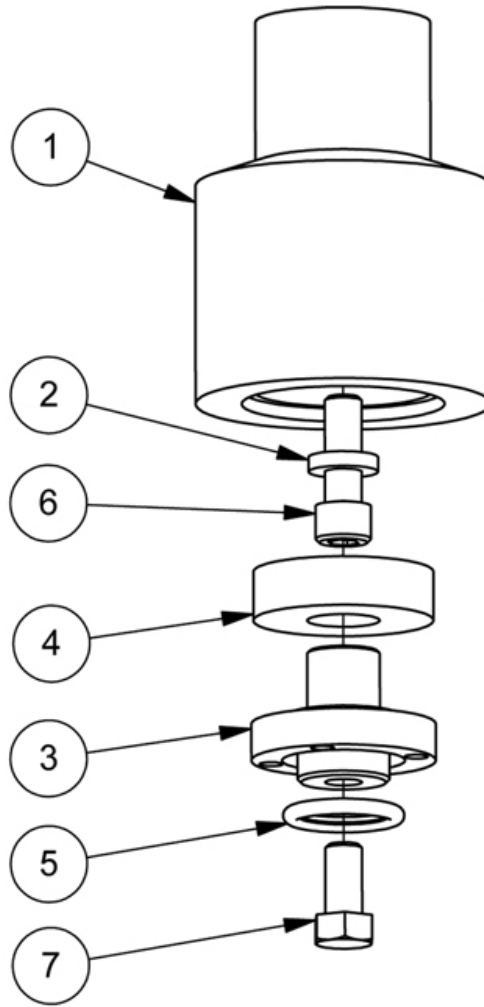


Fig. 16 - Drive Pulley Assembly

### IDLER PULLEY ASSEMBLY

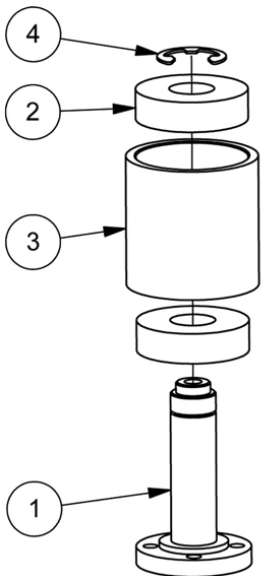


Fig. 17 - Idler Pulley Assembly

# PARTS LIST 10

## P-3200

### PULLEY ASSEMBLY

Fig. 16 - CENTER DRIVE

ITEM NO.	PART NO.	DESCRIPTION	QTY.	REMARK
1	85277	PULLEY (CENTER DRIVE), 4"DIA	1	
2	85206	WASHER, (CUSTOM MADE), 5ID X 0.94OD X 0.2" THK	1	
3	85146	SHAFT (CENTER DRIVE PULLEY SUPPORT)	1	
4	10370	BEARING, 25ID X 62OD X 17H MM	1	
5	10367	O-RING, 1-1/4ID X 1-5/8OD X 3/16"W	1	
6	10097	SHCS, 1/2-13UNC x 1 1/2" LG	1	
7	10371	HHCS, 1/2-13UNC x 1" LG	1	

### IDLER ASSEMBLY

Fig. 17 - IDLER ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	QTY.	REMARK
1	85148	SHAFT (FOR MAIN DRIVE IDLER), 0.984"DIA	1	
2	10370	BEARING, 25ID X 62OD X 17H MM	2	
3	85149	IDLER (SLEEVE ROLLER), 2-7/8"DIA X 2-7/8"H	1	
4	10369	RETAINING RING, E-STYLE, 1"	1	

**PARTS LIST 11**  
**P-3200**

**FLOATING HEAD ASSEMBLY**

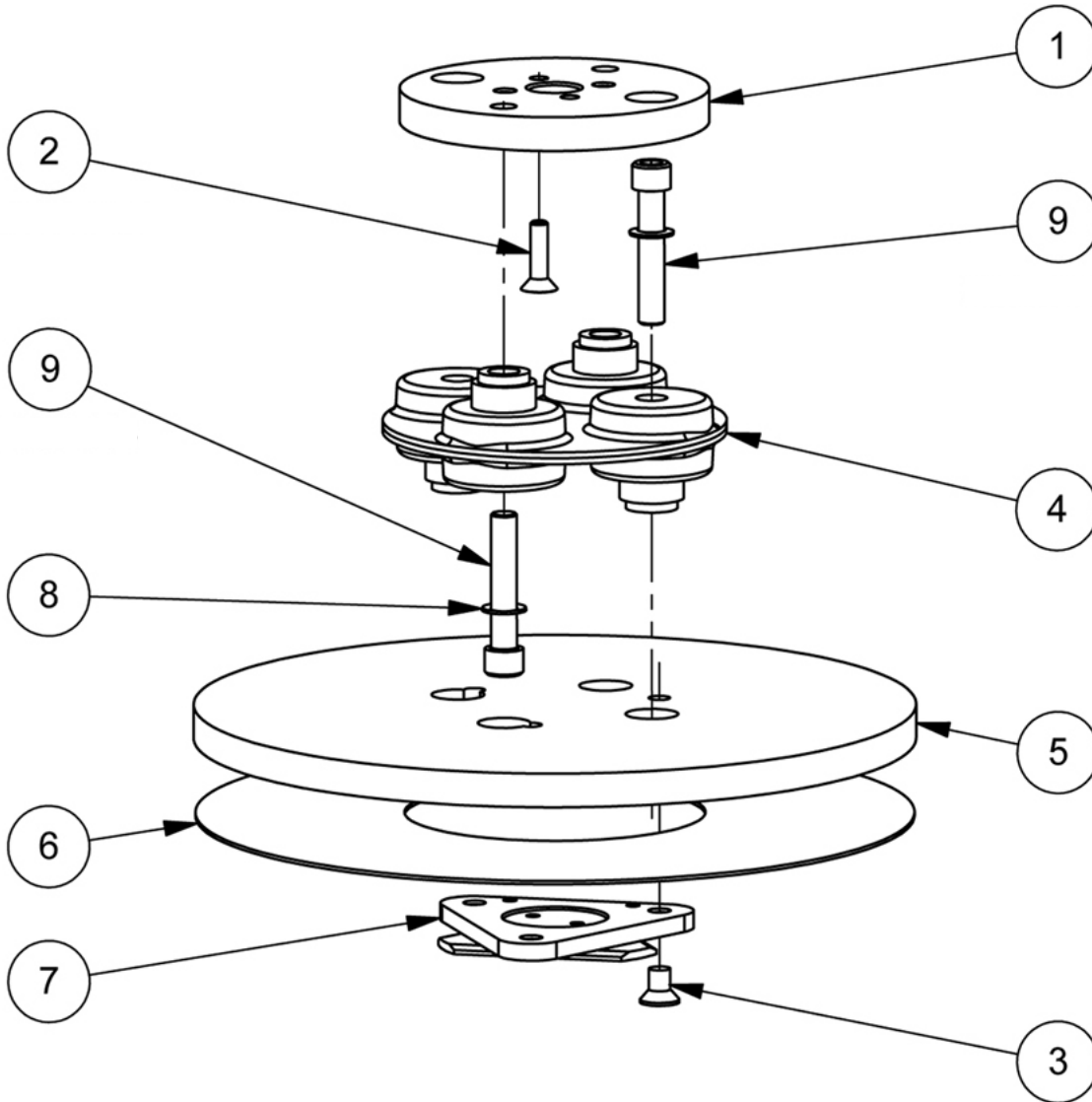


Fig. 18 - Floating Head Assembly



# PARTS LIST 11

## P-3200

### CUTTER HEAD FLOATING UNIT

Fig. 18 - CUTTER HEAD FLOATING UNIT ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	QTY.	REMARK
1	85306	CUTTER HEAD FLOATING HEAD TOP PLATE	1	
2	10373	FHSCS, 1/4"-20X1"	2	
3	10374	FHSCS, 5/16-18X1/2"	3	
4	85307	FLEXIBLE COUPLING	1	
5	85308	CUTTER HEAD FLOATING HEAD BOTTOM PLATE	1	
6	85309	VELCRO MAT, 10-1/2"OD X 4-3/8"ID X 0.05"THK	1	
7	85262	CUTTER HEAD TRIANGLE HOLDER ASSEMBLY	1	
8	11442	WASHER, BELLEVILLE, 0.413ID X 0.630OD	4	
9	10371	SHCS, 3/8"-24X2"	4	

# PARTS LIST 12

## P-3200

### RIGID HEAD ASSEMBLY

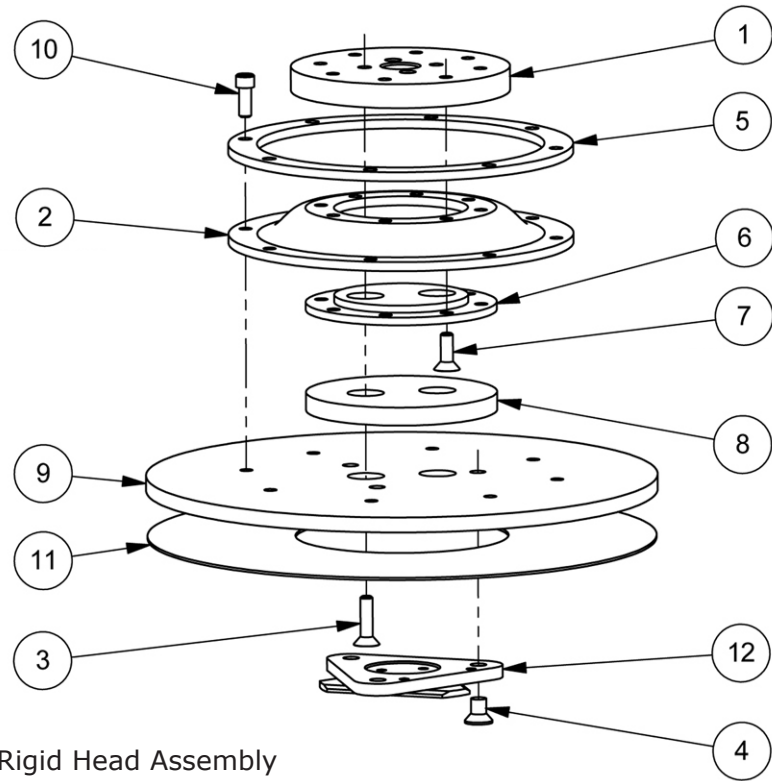


Fig. 19 - Rigid Head Assembly

### HOLDER ASSEMBLY

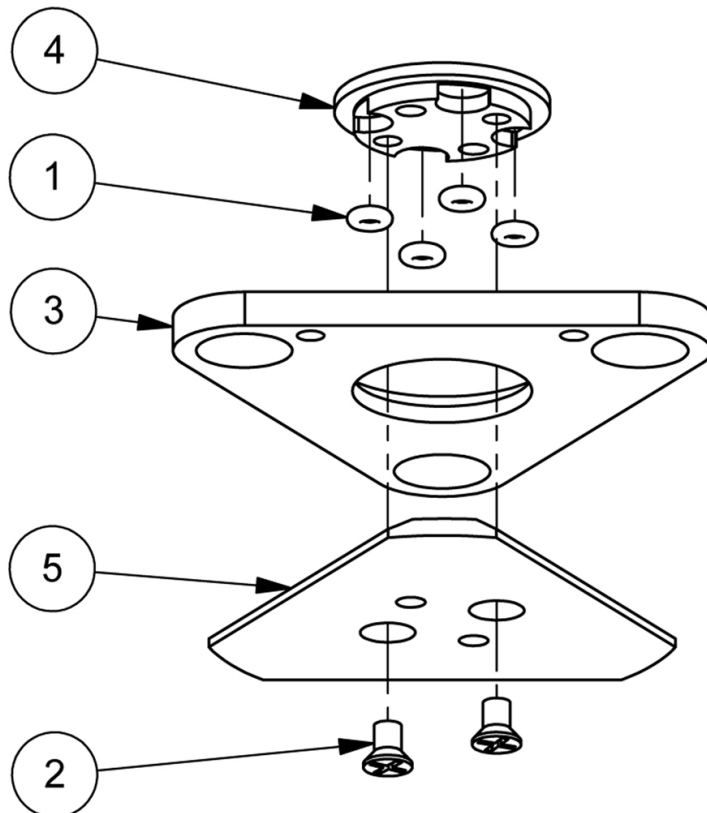


Fig. 20 - Holder Assembly

# PARTS LIST 12

## P-3200

### CUTTER HEAD RIGID HEAD UNIT

Fig. 19 - CUTTER HEAD RIGID HEAD UNIT ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	QTY.	REMARK
1	85258	CUTTER RIGID HEAD TOP PLATE	1	
2	85310	CUTTER HEAD POLYCORD DISCS	1	
3	10373	FHSCS, 1/4"-20X1"	2	
4	10374	FHSCS, 5/16"-18X1/2"	3	
5	85259	CUTTER HEAD RIGID HEAD POLYCORD RING	1	
6	85260	CUTTER HEAD RIGID HEAD POLYCORD HUB	1	
7	10361	FHSCS, 1/4"-20X3/4"	8	
8	10396	CUTTER HEAD RIGID HEAD RUBBER SPRING DISC	1	
9	85261	CUTTER HEAD RIGID HEAD BOTTOM PLATE	1	
10	10397	SHCS, 1/4"-20X5/8"	8	
11	85309	VELCRO MAT, 10-1/2"OD X 4-3/8"ID X 0.05"THK	1	
12	85262	CUTTER HEAD TRIANGLE HOLDER ASSEMBLY	1	

### CUTTER HEAD TRIANGLE HOLDER ASSEMBLY

Fig. 20 - CUTTER HEAD TRIANGLE HOLDER ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	QTY.	REMARK
1	10376	O-RING, 1/8"ID X 5/16"ODX3/32"W	4	
2	10381	FHSCS, #10-24X5/16"	2	
3	85263	TRIANGLE HOLDER BASE	1	
4	85155	TRIANGLE HOLDER CENTER ROTATOR	1	
5	85264	TRIANGLE HOLDER HOLD-DOWN	1	





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