



**OWNER'S
MANUAL**

**PARTS
BOOK**

Predator Series Grinder

P650E



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Curr Rev. – B

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**ORIGINAL LANGUAGE OPERATING MANUAL FOR
BARTELL GRINDERS**

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A	1/5/2023	Initial Release	JHL
C	6/9/2026	All parts pages revamped and propane was removed	JHL

SAFETY PRECAUTIONS



DANGER

EXPLOSION HAZARD

Never operate the machine in an explosive atmosphere, near combustible materials, or where ventilation does not clear exhaust fumes.



WARNING

BURN HAZARD

Never come into contact with the engine or muffler when engine is operating or shortly after it is turned off. Serious burns may occur.



WARNING

ROTATING HAZARD

Never place hands or feet inside safety guard rings. Serious injury will result from contact with rotating blades.



CAUTION

MOVING PARTS

Before starting the machine, ensure that all guards and safety devices are in place and functioning properly.



ATTENTION

READ OWNER'S MANUAL

Read and understand owner's manual before using this machine. Failure to follow operating instructions could result in serious injury or death.

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INTRODUCTION

The Predator Series Planetary Diamond Grinders are designed for wet and dry grinding of Concrete, marble, terrazzo, and granite. Their applications range from rough grinding and coating removal through a polished finish.

This Manual contains the information and procedures to assist you to operate and maintain the P650E floor grinder safely and correctly.

- P650E – 650mm Wide, Electrically Powered Planetary Grinder

It is extremely important for all users to be familiar with the contents of the manual before commencing operation of either machine. Failure to do so may result in damage to the machine or expose the operator to unnecessary dangers that may cause injury/death.

Only staff that has received the necessary training, both practically and theoretically concerning their usage should operate the machines

WARRANTY INFORMATION

All grinders sold by Bartell Morrison Inc. are warranted against defects in materials and/or workmanship; excluding normal wear on wearing components and components covered by a separate original manufacturer's warranty, for a period of 12 months from the date of sale to the original end user purchaser provided that certain conditions have been met.

Conditions:

1. The equipment serial number has been registered with Bartell Morrison Inc. or its approved dealers, distributors, representatives, or agents.
2. The equipment has been operated in an appropriate manner by qualified individuals.
3. The equipment has been properly maintained as per the instructions included in the Owner's Manual.
4. All claims for warranty must be filed on proper forms and include the serial number of the equipment along with proof of purchase.

Any evidence of failure to meet these conditions may result in a denial of the warranty claim. Consideration of warranty claims will be at the sole discretion of Bartell Morrison Inc., or its authorized dealers, distributors, representatives, or agents. Bartell Morrison Inc. may, at its discretion, request that the equipment to be considered for warranty be returned at the owner's expense to an authorized repair facility for inspection. Under this warranty we may, at our discretion, repair or replace a part or the whole of the defective component or equipment. Our Warranty coverage is limited to the cost to repair or replace the defective portion of the equipment and a reasonable (as determined by Bartell Morrison Inc.) amount of labor to conduct the repair or replacement. Under no circumstances shall Bartell Morrison Inc. be liable for any additional or exceptional costs beyond the cost to repair or replace the defective portion of the equipment. Bartell Morrison Inc. shall not be held accountable for; costs associated with travel to inspect or repair defective equipment, costs for transporting defective equipment to or from an authorized repair facility, costs incurred to repair or replace the defective equipment at any facility other than one authorized by Bartell Morrison Inc., or ancillary damage caused by or because of the defective equipment. Under no circumstances shall equipment be returned to Bartell Morrison Inc. or its authorized dealers, distributors, representatives, or agents without the approval of Bartell Morrison Inc. as evidenced by a Returned Goods Number. To obtain a Returned Goods Number contact the factory or your authorized dealer, distributor, representative or agent. This warranty is for the sole benefit of the original end user purchaser and is not transferable to any other company or person.

SPECIFICATIONS

	P500E	P500Pro	P650E	P650Pro	P800E	P800Pro
Source	Electric	Propane	Electric	Propane	Electric	Propane
Power	230V, 60 Hz, 1 Phase	479cc Briggs & Stratton	230V, 60 Hz, 1 Phase 230V, 60 Hz, 3 Phase 460V, 60 Hz, 3 Phase	993 cc Briggs and Stratton Commercial	230V, 60 Hz, 3 Phase 460V, 60 Hz, 3 Phase	993 cc Briggs and Stratton Vanguard
Output - HP (kW)	7.5 HP (3.7 kW) – 230V	16 HP (11.9 kW)	10 HP (7.5 kW) – 460V 7.5 HP (5.6 kW) – 230V	27 HP (14.1 kW)	20 HP (15 kW)	35 HP (26 kW)
Variable Head Speed - RPM	850-2000 rpm	850-2000 rpm	1012	1012	890	890
Grinding Heads	3	3	3	3	3	3
Head Diameter	7" (178mm)	7" (178mm)	9" (228.6mm)	9" (228.6mm)	11" (279.4 mm)	11" (279.4 mm)
Grinding Width	20" (508mm)	20" (508mm)	25" (625mm)	25" (625mm)	30" (762 mm)	30" (762 mm)
Water Tank Capacity	4 gal (15 L)	4 gal (15 L)	7.5 gal (28 L)	7.5 gal (28 L)	12.5 gal (47 L)	12.5 gal (47 L)
Vacuum Port	2" (51mm)	2" (51mm)	3" (75.6mm)	3" (75.6mm)	3" (75.6mm)	3" (75.6mm)
Machine Weight (lbs)	445 lbs (202 kg)	490 lbs (222 kg)	873 lbs (395 kg)	775 lbs (351 kg)	1254 lbs (568 kg)	1309 lbs (593 kg)
Grinding Force (lbs)	260 lbs (118 kg)	300 lbs (136 kg)	639 lbs (289 kg)	565 lbs (256 kg)	877 lbs (397 kg)	916 lbs (415 kg)
Max Height	68.5" (1741 mm)	68.5" (1741 mm)	76" (1930 mm)	76" (1930 mm)	82.3" (2092 mm)	82.3" (2092 mm)
	(Handle Up)					
Min Height	42" (1067 mm)	42" (1067 mm)	44" (1118 mm)	44" (1118 mm)	51.5" (1310 mm)	51.5" (1310 mm)
	(Handle Down)					
Min Length - in (mm)	44" (1118 mm)	44" (1118 mm)	52" (1321 mm)	52" (1321 mm)	68.5" (1740 mm)	68.5" (1740 mm)
	(Handle and Weights forward)					
Max Length - in (mm)	67.5" (1714 mm)	67.5" (1714 mm)	83" (2108 mm)	83" (2108 mm)	92.3" (2345 mm)	92.3" (2345 mm)
	(Handle and weights Back)					
Width - in (mm)	23.5" (597 mm)	23.5" (597 mm)	26" (660 mm)	26" (660 mm)	31.6" (800 mm)	31.6" (800 mm)

SAFETY PRECAUTIONS

It is important that the following be read carefully in order that the operational performance of the Bartell Grinder be fully understood.

SAFETY PRECAUTIONS

- Always keep unauthorized, inexperienced, untrained people away from this machine.
- Rotating and moving parts will cause injury if contacted. Make sure guards are in place. Keep hands and feet away from moving parts.
- The engine must always be electrically disconnected from the source before attempting any repair or adjustments. Ignition key should be off.

Danger: Never operate the machine in an explosive atmosphere, near combustible materials or where ventilation does not clear exhaust fumes. Refer to your engine owner's manual for more safety instructions.

- Always maintain control of the machine while it is in operation. Never let go of the machine while drum is rotating.
- Be sure that the RPM's do not exceed 2000 when starting and stopping the drum rotation.
- Be careful with the grinder around stub pipes or other obstructions on the floor. Should the machine catch, or hit such an obstruction, serious damage may result to the machine, or operator to be injured.
- At no time should lifting of machinery be attempted without mechanical means such as a hoist or a forklift.
- When lifting the grinder, only use specified connection points.
- When securing the grinder for transport, only use specified connection points.
- The machine should not be started without the rubber dust skirt attached. It is essential a good seal between floor and machine be established for safety, especially when operating in dry grinding applications.
- Extreme caution must be used when moving machinery by hand on an inclined plane. Even the slightest slope can cause forces/ momentum making the machinery impossible to brake manually.
- Never use the machine if you are tired, if you have consumed any alcohol, or if you are taking medication that could affect your vision, your judgment or your coordination.
- Never use a machine that has been modified in any way from its original specification.

Transportation

The Predator Series Grinders are equipped with 3rd Transport wheel.

To use 3rd Transport Wheel.

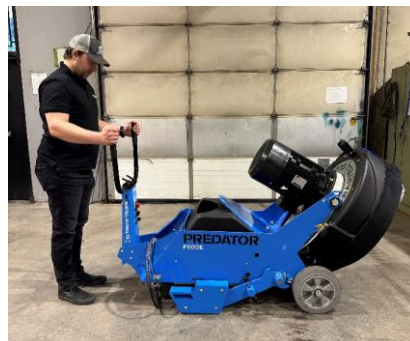
1. Rotate swing weights to rear position by pulling ball handle to release pin.



2. Rotate handle in most vertical position.
3. Place one foot on swing weight and pull machine back until 3rd wheel is contacting ground.



4. Rotate handle to new vertical position



5. Pull swing weights up to the first locking position.



6. Grinder is now ready to roll.

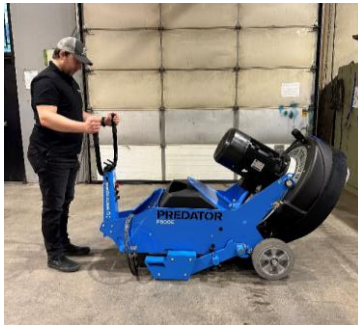


To return the grinder back to grinding position.

1. Release swing weights to the ground.

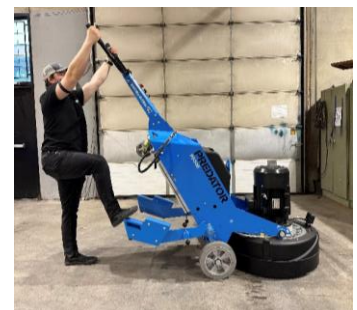


2. Rotate Handle to horizontal position.



3. Confirm no people or objects are under the grinder.

4. Pick up handle while placing one foot on the swing weights at the grinder rotates up.



5. Rotate Handle to comfortable operating position.



6. Rotate swing weights to desired grinding position.



To lift grinder with a hoist.

1. Grinder should be in grinding position.
2. Swing weights should be rotated down nearest to the drum.
3. Rotate Handle in horizontal position.



4. Locate marked single Lifting point behind motor/engine.
 - a. Do not use any other points of lifting.



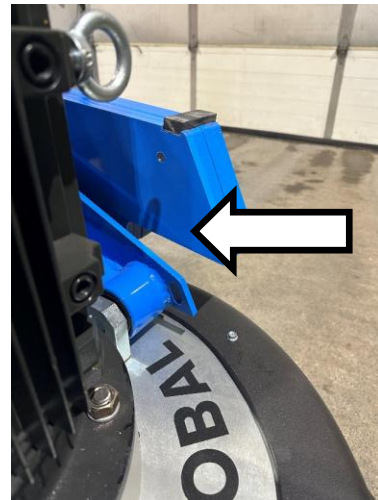
5. Only use OSHA/non-damaged certified lifting equipment

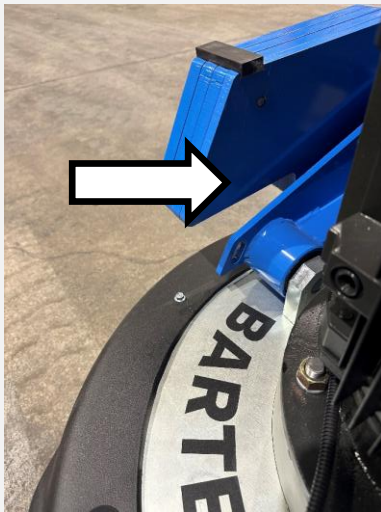
To secure machine for transport

1. Grinder should be in grinding position.
2. Swing weights should be rotated down nearest to the drum.
3. Rotate Handle in a horizontal position.

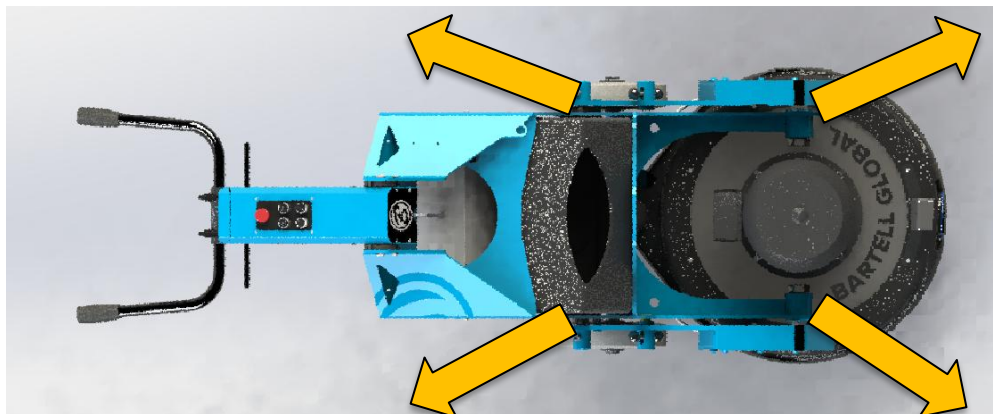


4. Locate 4 marked tie down points
 - a. Do not use any other tie down points.





5. Only use DOT certified ratcheting straps based on the weight of the grinder.
 - a. Do not use chains for securing machine



Tooling Installation

The Predator Series Grinders come equipped with quick change tooling system. This allows operators to quickly change grits or types of diamond tooling.

To install/change tooling plates on machine.

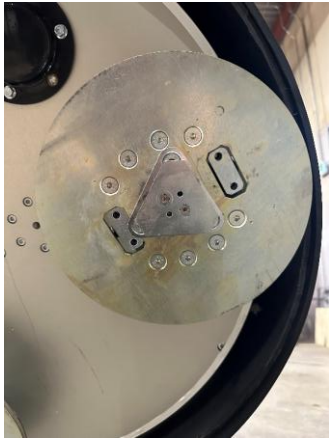
1. Rotate swing weights to rear position by pulling ball handle to release pin.



2. Rotate handle in most vertical position.
3. Place one foot on swing weight and pull machine back until 3rd wheel is contacting ground.



1. Install/change tooling plates by rotating the triangle in the center of each head.
 - a. 3 optional screws can be used to fix the tooling plates to the grinder.
 - b. Caution Tooling and tooling plates can be hot. Always use correct PPE.



- a. Same method for metal or resin plates



- b. 3 optional screws can be used to fix the tooling plates to the grinder.
c. Caution Tooling and tooling plates can be hot. Always use correct PPE.
d. Resin Tooling is in

2. Install/slide Mag by sliding tooling into grooves.
 - a. Use rubber mallet to tap tooling in and out of place.



Note: It is recommended not to transport machines with tooling plates installed, unless using optional transport screws.

3. Install resin tooling by attaching with Velcro



PREVENTATIVE MAINTENANCE AND ROUTINE SERVICE PLAN

This Bartell Predator Grinder has been assembled with care and will provide years of service. Preventative maintenance and routine service are essential to the long life of your Bartell Grinder. Your dealer is interested in your new Grinder and has the desire to help you get

the most value from it. After reading through this manual thoroughly you will find that you can do some of the regular maintenance yourself. However, when in need of parts or major service, be sure to see your Bartell dealer. For your convenience we have provided this space to record relevant data about your Grinder. When in need of parts or service be prepared to provide your Grinder serial number. Locate the serial number now and record in the space below.

Date Purchased:		Type of Machine:	
Dealer Name:		Model:	
Dealer Phone:		Serial Number:	

[illegible]

ROUTINE SERVICE SCHEDULE

Routine Service Intervals		Each Use	After 1.5 months or 50 hrs	Each 3 months or 100 hrs	Each 6 months or 200 hrs	Each 9 months or 300 hrs	Each 12 months or 400 hrs
General Inspection							
Operation of lights	Check		○	○	○	○	○

Battery	Check and clean			0	0	0	0
	Recharge			0	0	0	0
	Replace						2 yrs
Guards	Check	0	0	0	0	0	0
Warning Stickers	Check		0	0	0	0	0
Swing Weight Function	Check	0	0	0	0	0	0
Test Run	Check Operation		0	0	0	0	0
Controls							
Safety switch operation	Check	0	0	0	0	0	0

Routine Service Intervals		Each Use	After 1.5 months or 50 hrs	Each 3 months or 100 hrs	Each 6 months or 200 hrs	Each 9 months or 300 hrs	Each 12 months or 400 hrs
Drive Train:							
Bearings	Lubricate		0	0	0	0	0
Universal Couplings	Lubricate			0	0	0	0
Belt Tension/ Condition	Check	0	0	0	0	0	0
Clutch/ Pulley Operation	Check	0	0	0	0	0	0

ROUTINE SERVICE INTERVALS

Due to the nature and environment of use, grinders are exposed to severe operating conditions.

Some general maintenance guidelines will extend the useful life of your grinder:

- The initial service for your grinder should be performed after 50 hours of use, at which time your mechanic (or authorized repair shop) should complete all of the recommended checks in the schedule above. The previous chart is handy for keeping a record of the maintenance performed and the parts used for servicing your grinder.
- Regular service according to the schedule above will prolong the life of the grinder and prevent expensive repairs.
- After each use, your grinder should be cleaned to remove any concrete residue from the drum, flex heads and surrounding components. Use of a power washer will make clean up quick and easy, especially if a release agent was applied prior to use. Use caution to not wet any electrical components. Refer to engine supplier manual on pressure washing guidelines.
- In the Service Schedule above, items that should be checked, replaced or adjusted are indicated by “o” in the appropriate column. Not all grinder models include the same features and options and as such not all service operations may have to be performed. For ease of recording, place a checkmark (✓) through the “o” when the item is complete. If an item is not required or not completed place an “x” through the “o” in the box.
- Failure to have your grinder regularly serviced and properly maintained in accordance with the manufacturer’s instructions will lead to premature failure and void the warranty.

MAINTENANCE INSTRUCTIONS

GENERAL MAINTENANCE

Remember, safety is paramount when performing routine maintenance checks. Always disconnect the grinder from the power source before conducting any inspections or maintenance tasks.

- **Visual Inspection:** Regularly examine the grinder for any signs of damage, loose parts, or frayed wires. Ensure that all components are in good condition and properly connected.
- **Power Cord:** Check the power cord for any cuts or exposed wires. If any damage is found, replace the cord immediately to prevent electrical hazards.
 - **NOTE:** After the first 8 hours of run time, check electrical connections for tightness. Connectors may come loose due to vibration.
- **Fasteners:** Check all screws, nuts, and bolts on the grinder for proper tightness. If any are loose, tighten them securely to prevent accidents during operation.
- **Safety Mechanisms:** Test the grinder's safety mechanisms, such as the E-Stop, to ensure they are functioning effectively. These mechanisms are designed to protect the user from potential accidents or injuries.
- **Electrical Connections:** Inspect the grinder's electrical connections, such as switches and plugs, for any signs of damage or loose connections. Ensure that all connections are secure and properly insulated.
- **Cleanliness:** Regularly clean the grinder's external surfaces and remove any debris or residue from the grinding area. This prevents build-up that can affect the grinder's performance and poses a safety hazard. Hard concrete is very difficult to remove, greatly increases weight, and reduces efficient subsequent operation of unit.

TROUBLESHOOTING 650E

Operation Panel Indication		Name	Refer to Page
Error message	<i>E---</i>	E---	Faults history
	<i>HOLD</i>	HOLD	Operation panel lock
	<i>LOCd</i>	LOCd	Password locked
	<i>Er1</i> <i>Er2</i> <i>Er4</i>	Er1 Er2 Er4	Parameter write error
	<i>Err.</i>	Err.	Inverter reset
Warning	<i>OL</i>	OL	Stall prevention (overcurrent)
	<i>oL</i>	oL	Stall prevention (overvoltage)
	<i>rb</i>	RB	Regenerative brake prealarm
	<i>TH</i>	TH	Electronic thermal relay function prealarm
	<i>PS</i>	PS	PU stop
	<i>nr</i>	MT	Maintenance signal output
	<i>Uu</i>	UV	Undervoltage
	<i>SA</i>	SA	Safety stop
	<i>Ev</i>	EV	24V external power supply operation
Alarm	<i>Fn</i>	FN	Fan alarm
Fault	<i>E.OC1</i>	E.OC1	Overcurrent trip during acceleration
	<i>E.OC2</i>	E.OC2	Overcurrent trip during constant speed
	<i>E.OC3</i>	E.OC3	Overcurrent trip during deceleration or stop
	<i>E.Ov1</i>	E.OV1	Regenerative overvoltage trip during acceleration
	<i>E.Ov2</i>	E.OV2	Regenerative overvoltage trip during constant speed
	<i>E.Ov3</i>	E.OV3	Regenerative overvoltage trip during deceleration or stop
	<i>E.THT</i>	E.THT	Inverter overload trip (electronic thermal relay function)
	<i>E.THM</i>	E.THM	Motor overload trip (electronic thermal relay function)
	<i>E.FIn</i>	E.FIN	Heatsink overheat

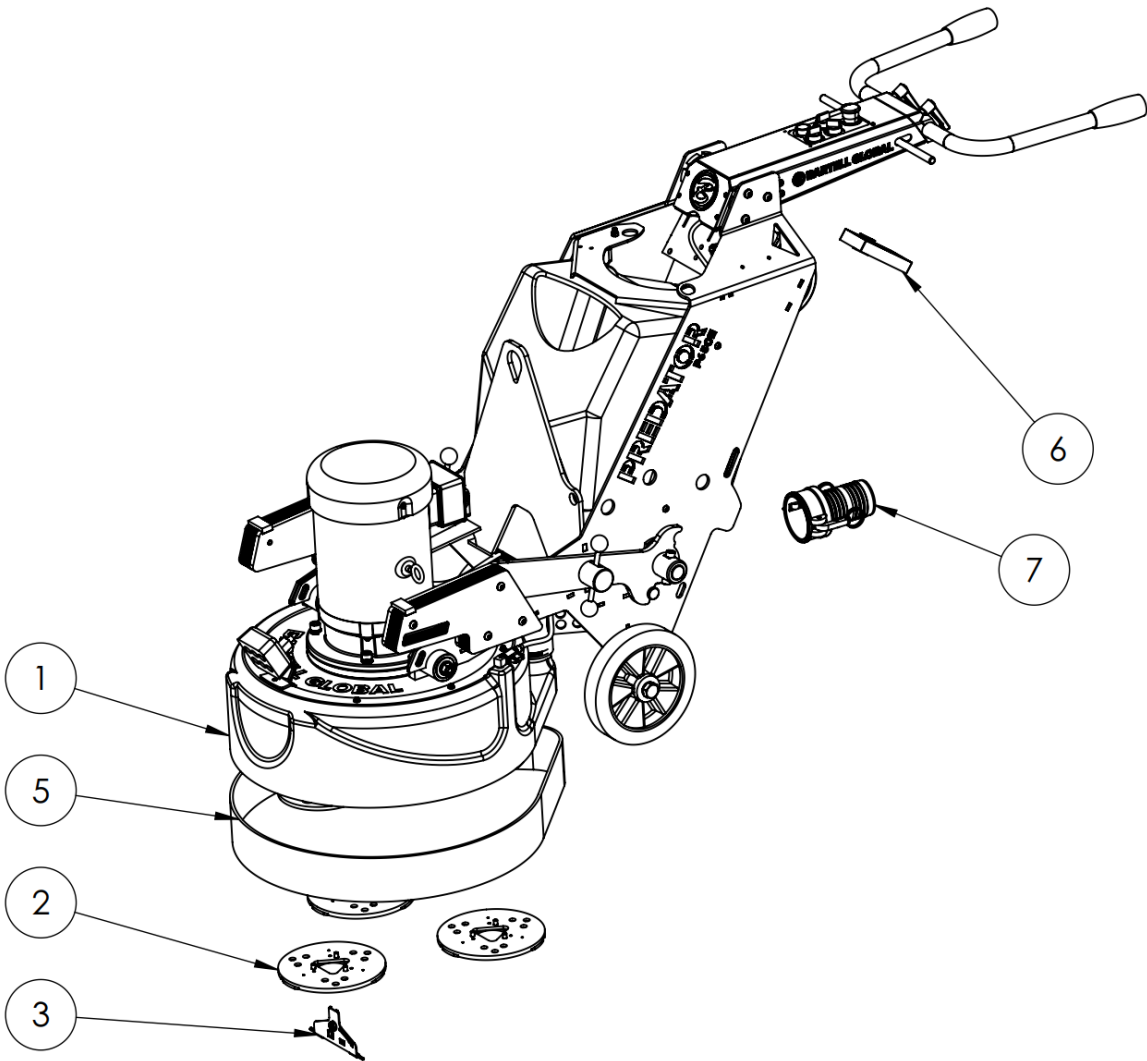
Operation Panel Indication		Name	Refer to Page
<i>E.ILF</i>	E.ILF	Input phase loss	239
<i>E.OLr</i>	E.OLT	Stall prevention stop	240
<i>E. bE</i>	E. BE	Brake transistor alarm detection	240
<i>E. GF</i>	E.GF	Output side earth (ground) fault overcurrent at start	240
<i>E. LF</i>	E.LF	Output phase loss	240
<i>E.OP1</i>	E.OP1	Communication option fault	240
<i>E.OPr</i>	E.OPT	Option fault	241
<i>E. 1</i>	E. 1	Option fault	241
<i>E. PE</i>	E.PE	Parameter storage device fault	241
<i>E.PE2</i>	E.PE2	Internal board fault	241
<i>E. rEr</i>	E.RET	Retry count excess	241
<i>E. 5</i> <i>E. 6</i> <i>E. 7</i> <i>E.CPU</i>	E. 5 E. 6 E. 7 E.CPU	CPU fault	241
<i>E.IOH</i>	E.IOH	Inrush current limit circuit fault	242
<i>E.USB</i>	E.USB	USB communication fault	242
<i>E.MB4 to E.MB7</i>	E.MB4 to E.MB7	Brake sequence fault	242
<i>E.SAF</i>	E.SAF	Safety circuit fault	242
<i>E. 13</i>	E.13	Internal circuit fault	242

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PARTS

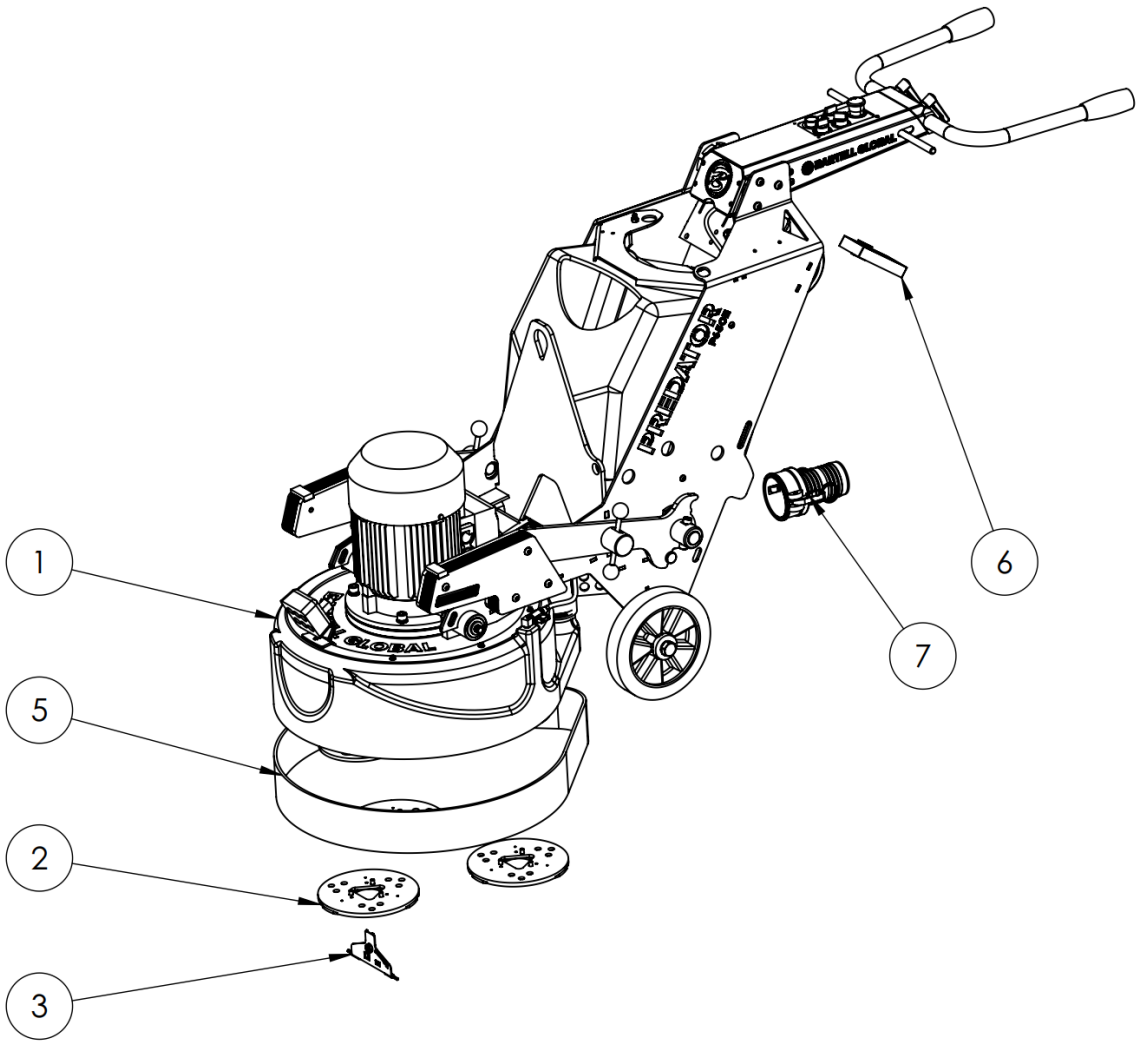
98-0056 - PREDATOR P650E GRINDER – 230V 3PH / 1PH - E

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	96-0757	PREDATOR P650E GRINDER ASSEMBLY	1
2	96-0786	METAL TOOLING KIT 650	3
3	96-0456	TOOLING WRENCH	1
4	61-0078	PREDATOR 650E DECAL KIT	1
5	13-0673	DUST COVER - 650	1
6	13-0618	BATTERY STRAP 1"X24" / HOSE STRAP	1
7	VAC.10125	CAM LOCK 3IN FEMALE	1



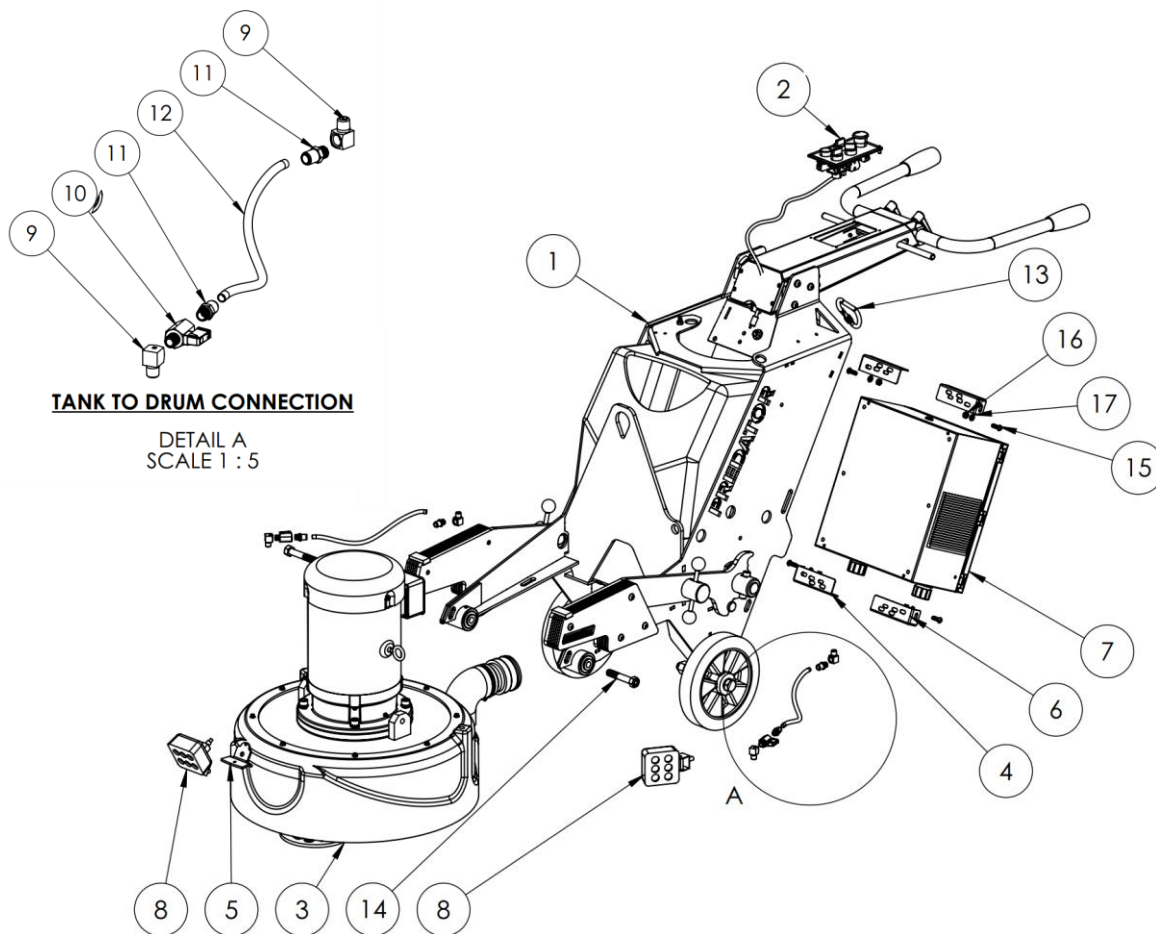
98-0057 - PREDATOR P650E GRINDER ASSEMBLY 480V 3PH - B

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	96-0605	PREDATOR P650E GRINDER ASSEMBLY 480V 3 Phase	1
2	96-0786	METAL TOOLING KIT 650	3
3	96-0456	TOOLING WRENCH	1
4	61-0078	PREDATOR 650E DECAL KIT	1
5	13-0673	DUST COVER - 650	1
6	13-0618	BATTERY STRAP 1"X24" / HOSE STRAP	1
7	VAC.10125	CAM LOCK 3IN FEMALE	1



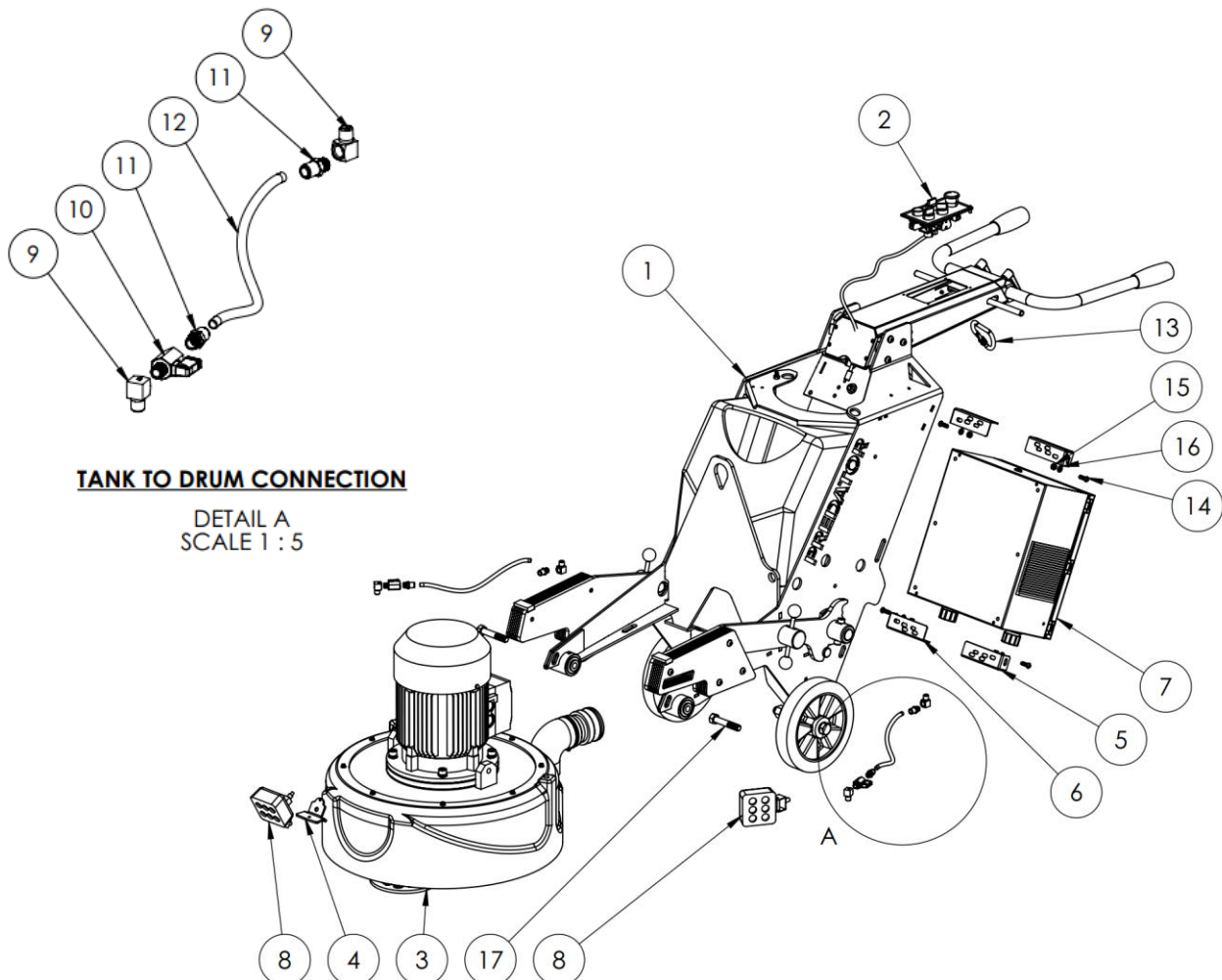
96-0757 - PREDATOR P650E GRINDER ASSEMBLY 230V 3PH / 1PH - G

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	96-0603	FRAME ASSEMBLY - 650	1
2	96-0788	SWITCH PANEL - 800E	1
3	96-0615	DRUM MOTOR SUB ASSEM 650E 1PH	1
4	52-0609	ELECTRICAL PANEL BRACKET LEFT 800E AND 600E	2
5	52-0620	FRONT LIGHT BRACKET - 650	1
6	52-0608	ELECTRICAL PANEL BRACKET RIGHT 800E AND 600E	2
7	22-0108	ELECTRICAL CONTROL ASSEMBLY - 650E 230V	1
8	23-0240	LIGHT 12V FLOOD	2
9	41-0032	FITTING 0.25 NPT MALE TO 0.25 NPT FEMALE 90 DEG BRASS	4
10	41-0051	BALL VALVE MALE 0.25 NPT FEMALE 0.25 NPT	2
11	41-0052	PUSH-TO-CONNECT 0.25 NPT 0.38 TUBE	4
12	41-0053	WATER TUBE CLEAR 0.38 OD	2
13	13-0721	CARABINER	1
14	11-0376	HEX HEAD SCREW 5/8-11 X 3.5" ZINC	2
15	12-0810-25	BUTTON HEAD CAP SCREW - M8X25 - ZINC	4
16	12-0021-08	LOCKNUT - M8 - ZINC	4
17	12-0850	WASHER - M8 - ZINC	4



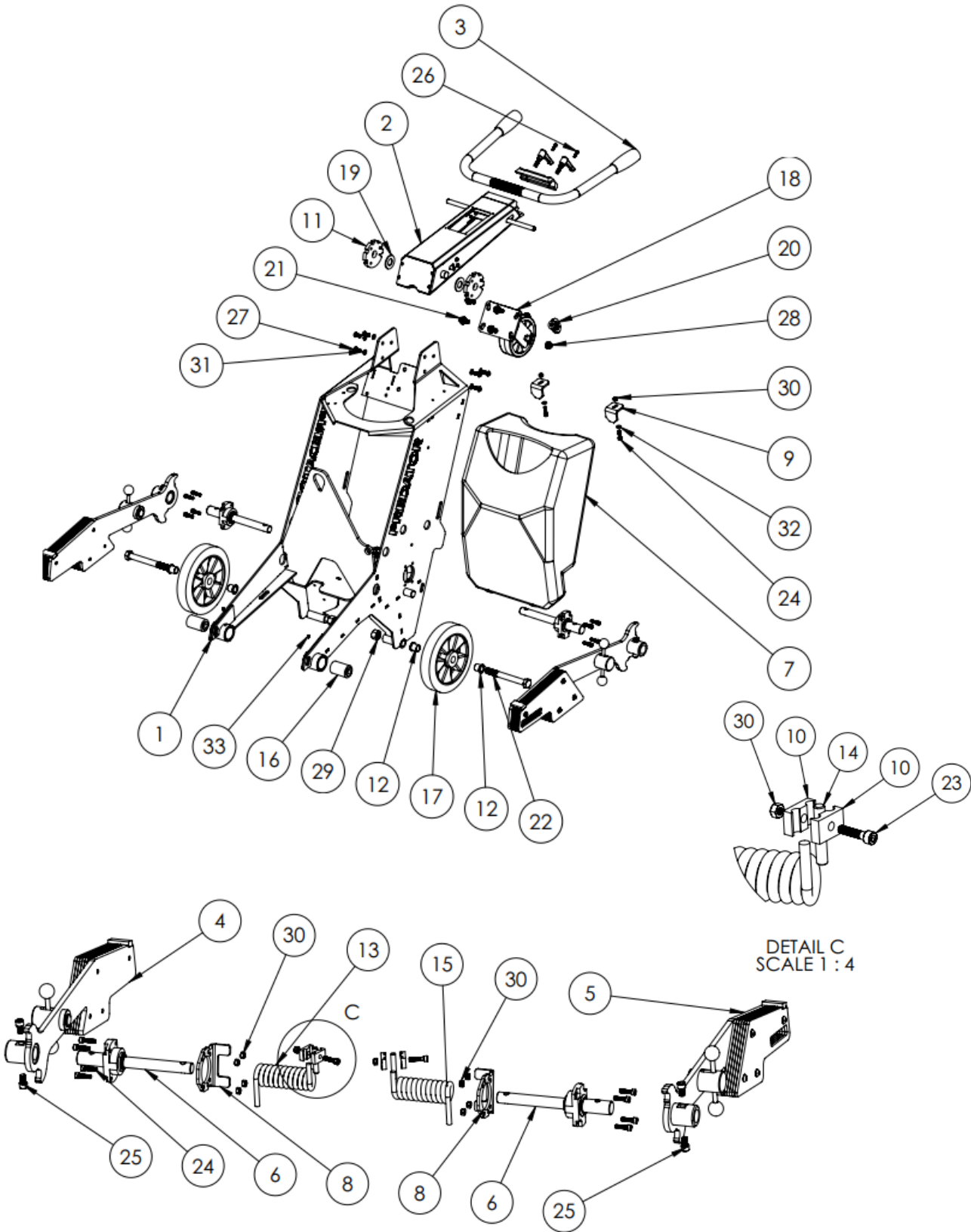
96-0605 - PREDATOR P650E GRINDER ASSEMBLY 480V 3PH - B

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	96-0603	FRAME ASSEMBLY - 650	1
2	96-0788	SWITCH PANEL - 800E	1
3	96-0607	DRUM MOTOR SUB ASSEM 650E 3PH	1
4	52-0620	FRONT LIGHT BRACKET - 650	1
5	52-0608	ELECTRICAL PANEL BRACKET RIGHT 800E AND 600E	2
6	52-0609	ELECTRICAL PANEL BRACKET LEFT 800E AND 600E	2
7	22-0111	ELECTRICAL CONTROL ASSEMBLY - 650E 480V	1
8	23-0240	LIGHT 12V FLOOD	2
9	41-0032	FITTING 0.25 NPT MALE TO 0.25 NPT FEMALE 90 DEG BRASS	4
10	41-0051	BALL VALVE MALE 0.25 NPT FEMALE 0.25 NPT	2
11	41-0052	PUSH-TO-CONNECT 0.25 NPT 0.38 TUBE	4
12	41-0053	WATER TUBE CLEAR 0.38 OD	2
13	13-0721	CARABINER	1
14	12-0810-25	BUTTON HEAD CAP SCREW - M8X25 - ZINC	4
15	12-0021-08	LOCKNUT - M8 - ZINC	4
16	12-0850	WASHER - M8 - ZINC	4
17	11-0376	HEX HEAD SCREW 5/8-11 X 3.5" ZINC	2



96-0603 - FRAME ASSEMBLY – 650 - D

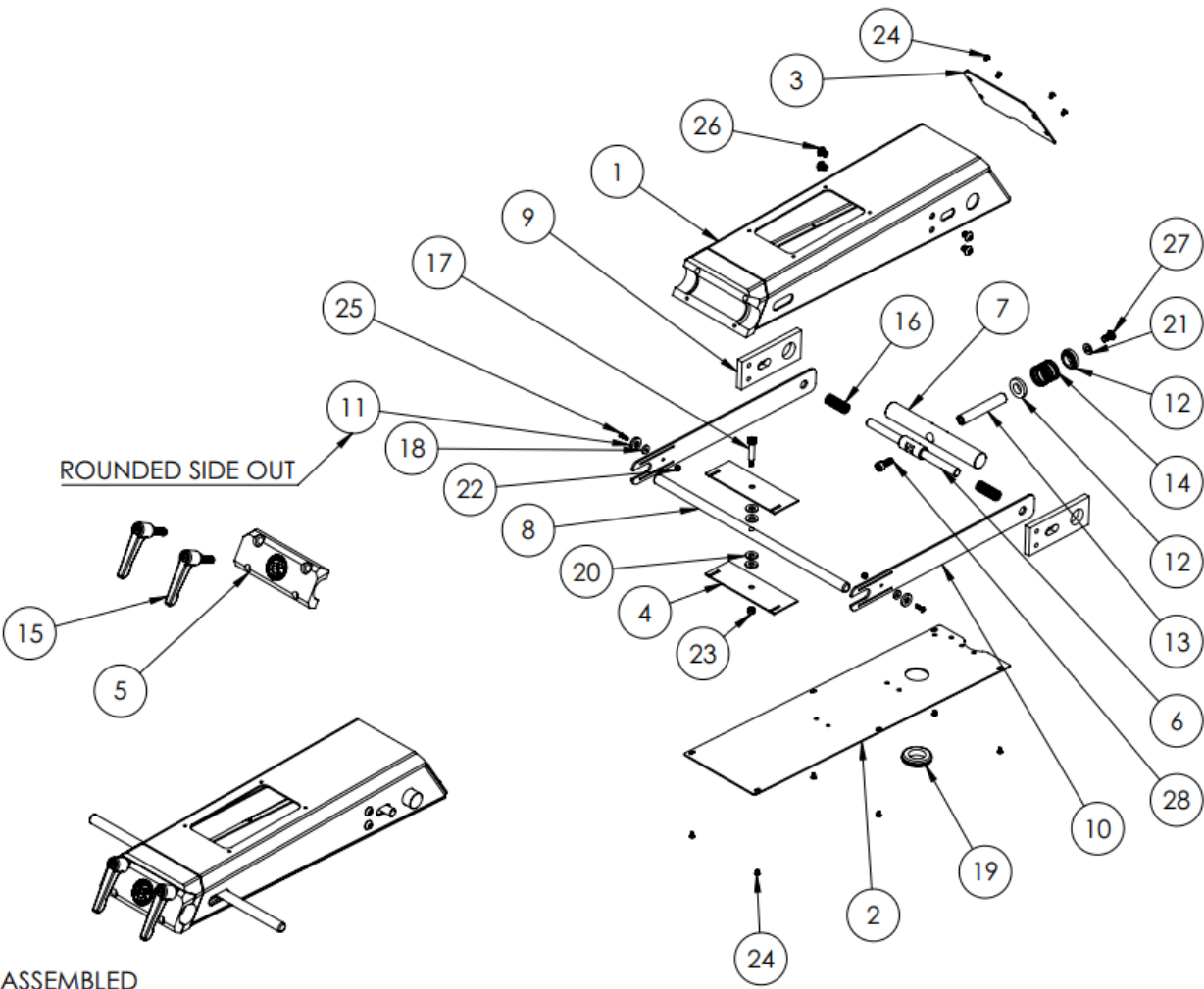
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	53-0792	FRAME WELDMENT - 650	1
2	96-0725	HANDLE ASSEMBLY	1
3	96-0720	BG HANDLE	1
4	96-0475	SWING WEIGHT ASSEMBLY LEFT - 650	1
5	96-0470	SWING WEIGHT ASSEMBLY RIGHT - 650	1
6	96-0469	SWING WEIGHT BUSHING ASSEM	2
7	54-0050	WATER TANK - 650	1
8	52-0614	INNER SPRING FLANGE - 650	2
9	52-0633	TANK MOUNTING BRACKET	2
10	51-3309	CLAMP	4
11	51-3372	HANDLE CLOCK - 650	2
12	51-3378	AXLE BUSHING - 650	4
13	13-0602	TORSION SPRING LEFT	1
14	13-0609	TORSION SPRING PIN	2
15	13-0608	TORSION SPRING RIGHT	1
16	13-0669	DRUM BUSHING ASSEM - 650	2
17	13-0670	WHEEL 10IN - 650	2
18	13-0611	CASTER WHEEL	1
19	13-0556	THRUST BEARING 1"	2
20	13-3329	EYE NUT - M12 - GALV	1
21	12-1260-35	HEX HEAD SERRATED - M12X35 - ZINC	4
22	12-2020-180	HEX HEAD SCREW - M20X180 - ZINC	2
23	12-0800-35	SOCKET HEAD CAP SCREW - M8X35 - ZINC	2
24	12-0800-30	SOCKET HEAD CAP SCREW - M8X30 - ZINC	10
25	12-1200-20	SOCKET HEAD CAP SCREW - M12X20 - ZINC	4
26	12-0600-20	SOCKET HEAD CAP SCREW - M6X20 - ZINC	2
27	12-1010-22	BUTTON HEAD CAP SCREW - M10X22 - ZINC	6
28	12-1260	HEX NUT SURRATED - M12 - ZINC	3
29	12-2040	LOCKNUT - M20 - ZINC	2
30	12-0840	LOCKNUT - M8 - ZINC	12
31	12-1070	LOCK WASHER - M10 - ZINC	6
32	12-0850	WASHER - M8 - ZINC	2
33	13-0804	SET SCREW CONE - MX10 - ZINC	2



SWING WEIGTHS FROM REAR OF MACHINE

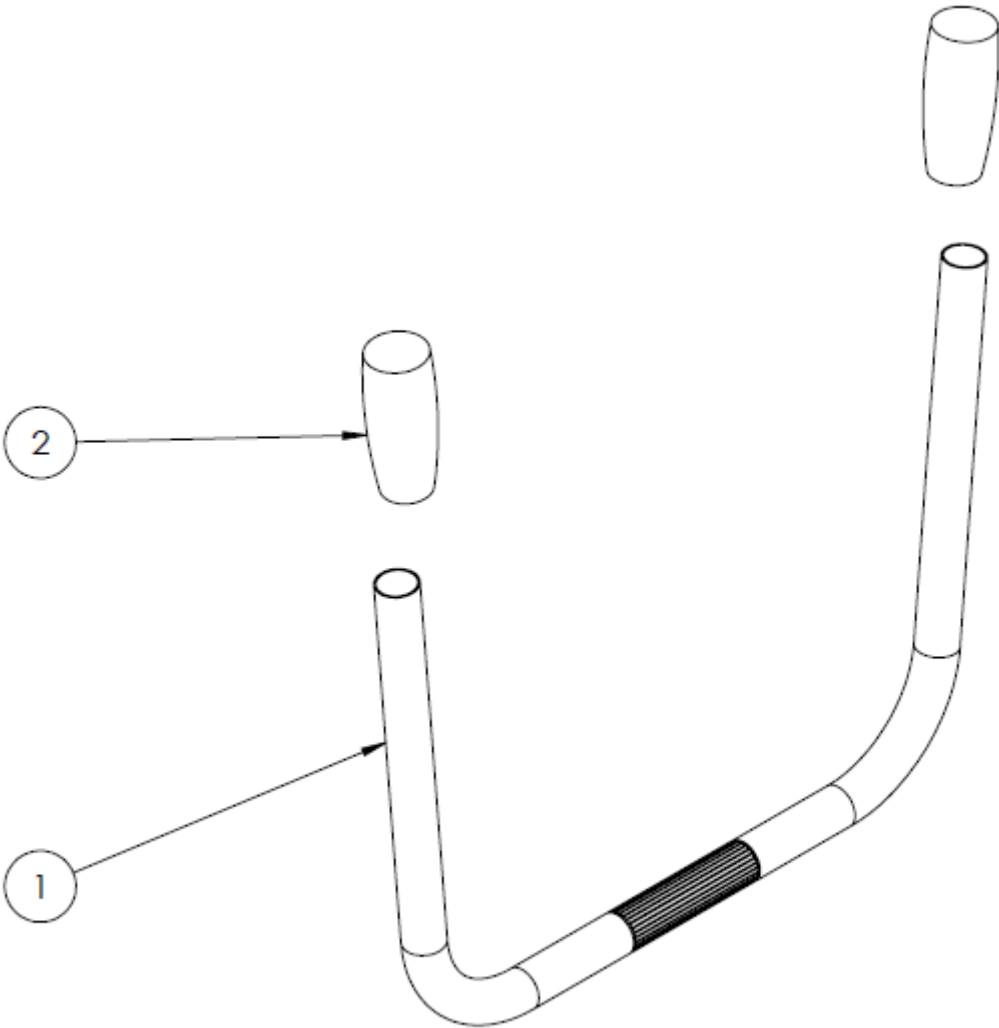
96-0725 - HANDLE ASSEMBLY – 650 AND 800 - G

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	53-0750	HANDLE STEM WELDMENT	1
2	52-0350	BOTTOM COVER PANEL	1
3	52-0351	FRONT COVER PANEL	1
4	52-0354	PREP PLATES	2
5	51-3200	HANDLE CAP PLATE	1
6	51-3201	LATCH PIN	1
7	51-3203	PIVOT PIN	1
8	51-3303	PULL HANDLE	1
9	51-3304	REINFORCEMENT PLATE	2
10	51-3305	PULL PLATE	2
11	13-0551	TEFLON SLIDER 3/4"	2
12	13-0552	SPRING LOCATOR	2
13	13-0553	TAPPED SHAFT M8	1
14	13-0575	COMPRESSION SPRING	1
15	13-0554	LOW-PROFILE ADJUSTABLE HANDLE	2
16	13-3330	SPRING 2IN X 0.6IN - 4.8 SR	2
17	13-0557	SHOULDER BOLT 8X30 M6	1
18	13-0558	SPACER 1/2" X 1/8"	2
19	25-0182	GROMET 1IN	1
20	12-2852	WASHER - M8 - PTFE	4
21	12-0850	WASHER - M8 - ZINC	1
22	12-0440	NYLOC NUT - M4 - ZINC	2
23	12-0640	NYLOC NUT - M6 - ZINC	1
24	12-0410-06	BUTTON HEAD CAP SCREW - M4X6 - ZINC	10
25	12-0410-16	BUTTON HEAD CAP SCREW - M4X16 - ZINC	2
26	12-0810-10	BUTTON HEAD CAP SCREW - M8X10 - ZINC	4
27	12-0810-16	BUTTON HEAD CAP SCREW - M8X16 - ZINC	1
28	12-0800-20	SOCKET HEAD CAP SCREW - M8X20 - ZINC	1



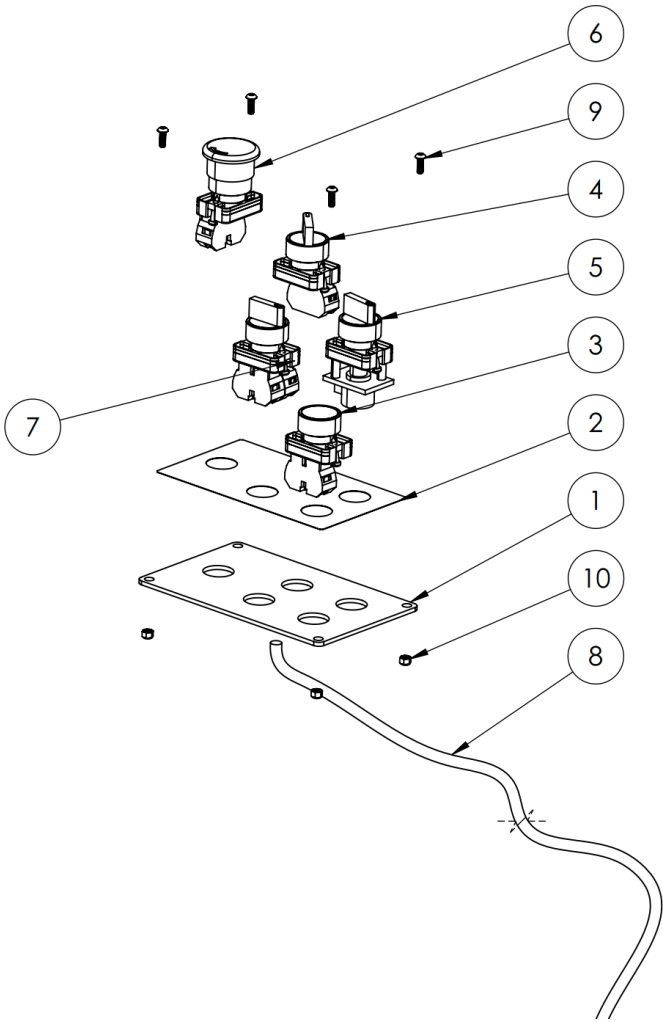
96-0720 - BG HANDLE – 650 AND 800 - C

ITEM NO.	Part Number	DESCRIPTION	QTY.
1	53-0797	BG HANDLEBAR WELDMENT	1
2	13-0560	BG HANDLE END GRIP	2



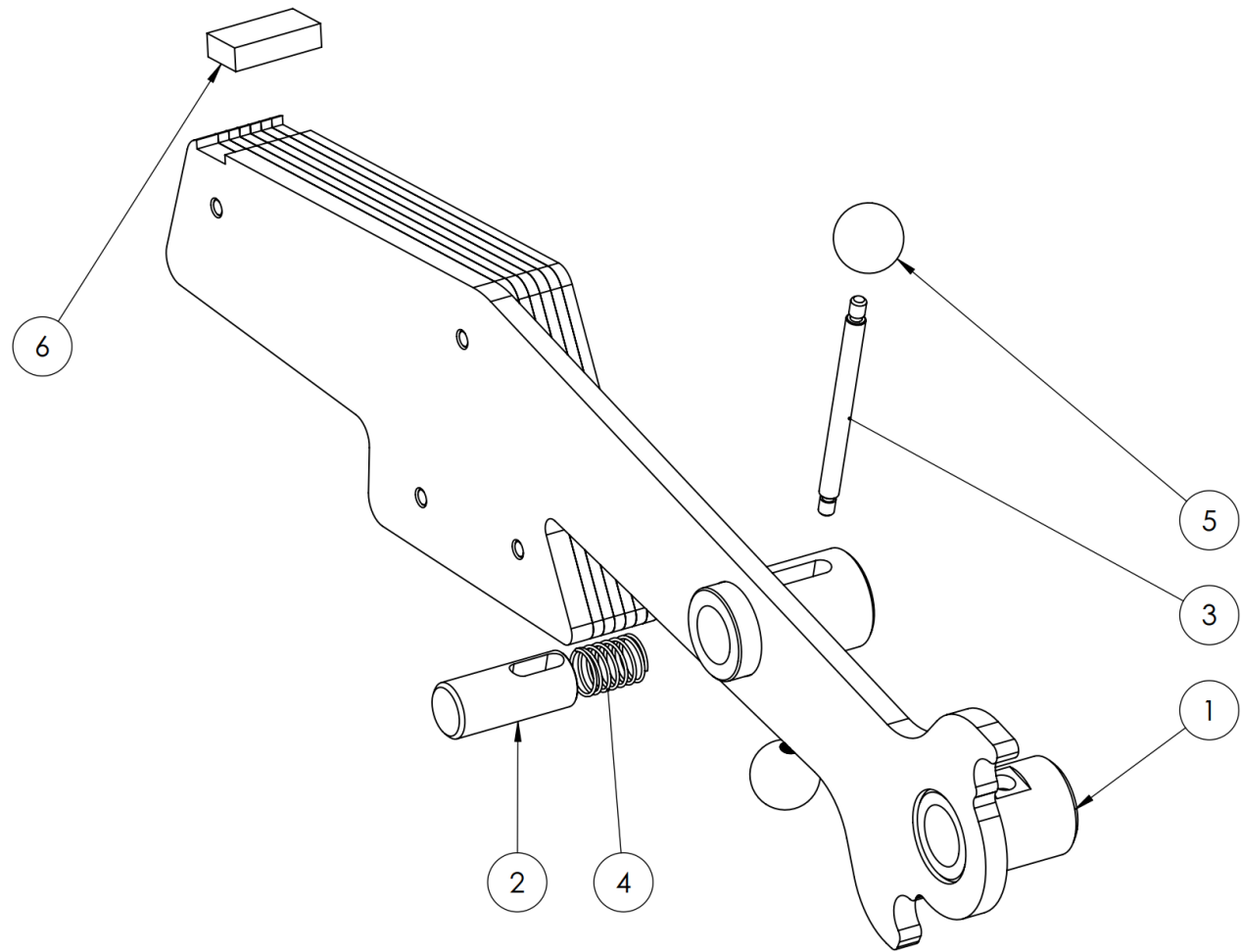
96-0788 - SWITCH PANEL – 650E AND 800E - G

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	52-0613	SWITCH PLATE - 800E	1
2	61-0080	SWITCH PLATE DECAL 650 AND 800E	1
3	22-0100	PUSH BUTTON	1
4	22-0104	SWITCH TWO POSITION	1
5	22-0105	SWITCH POTENTIOMETER	1
6	22-0106	ESTOP SWITCH	1
7	22-0109	SWITCH 3 POSITION	1
8	24-0290	SWITCH PANEL CABLE 650E AND 800E	1
9	12-0410-12	BUTTON HEAD CAP SCREW - M4X12 - ZINC	4
10	12-0440	NYLOC NUT – M4 - ZINC	4



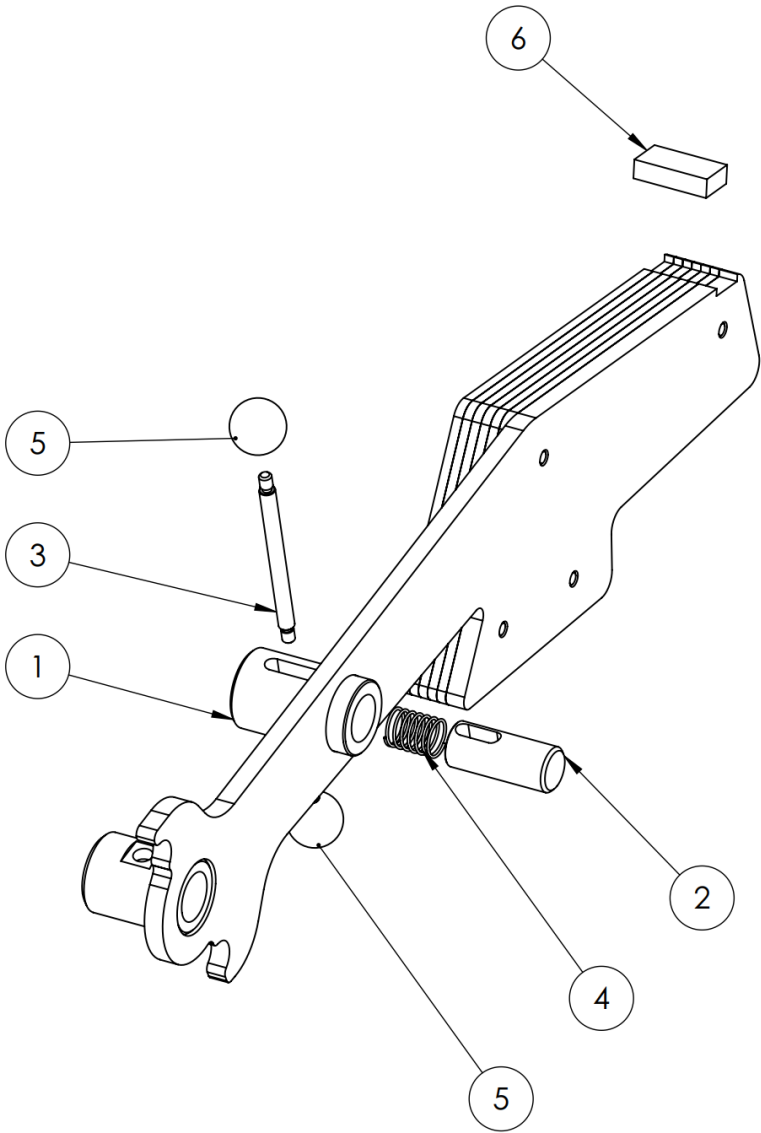
96-0470 - SWING WEIGHT ASSEMBLY RIGHT – 650 - F

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	53-0793	WEIGHT ARM WELDMENT RIGHT - 650	1
2	51-3310	WEIGHT PIN	1
3	13-0600	LEVERAGE PIN	1
4	13-0603	PIN LOCK SPRING	1
5	13-0604	KNOB	2
6	51-3370	SWING WEIGHT PAD - 650	1



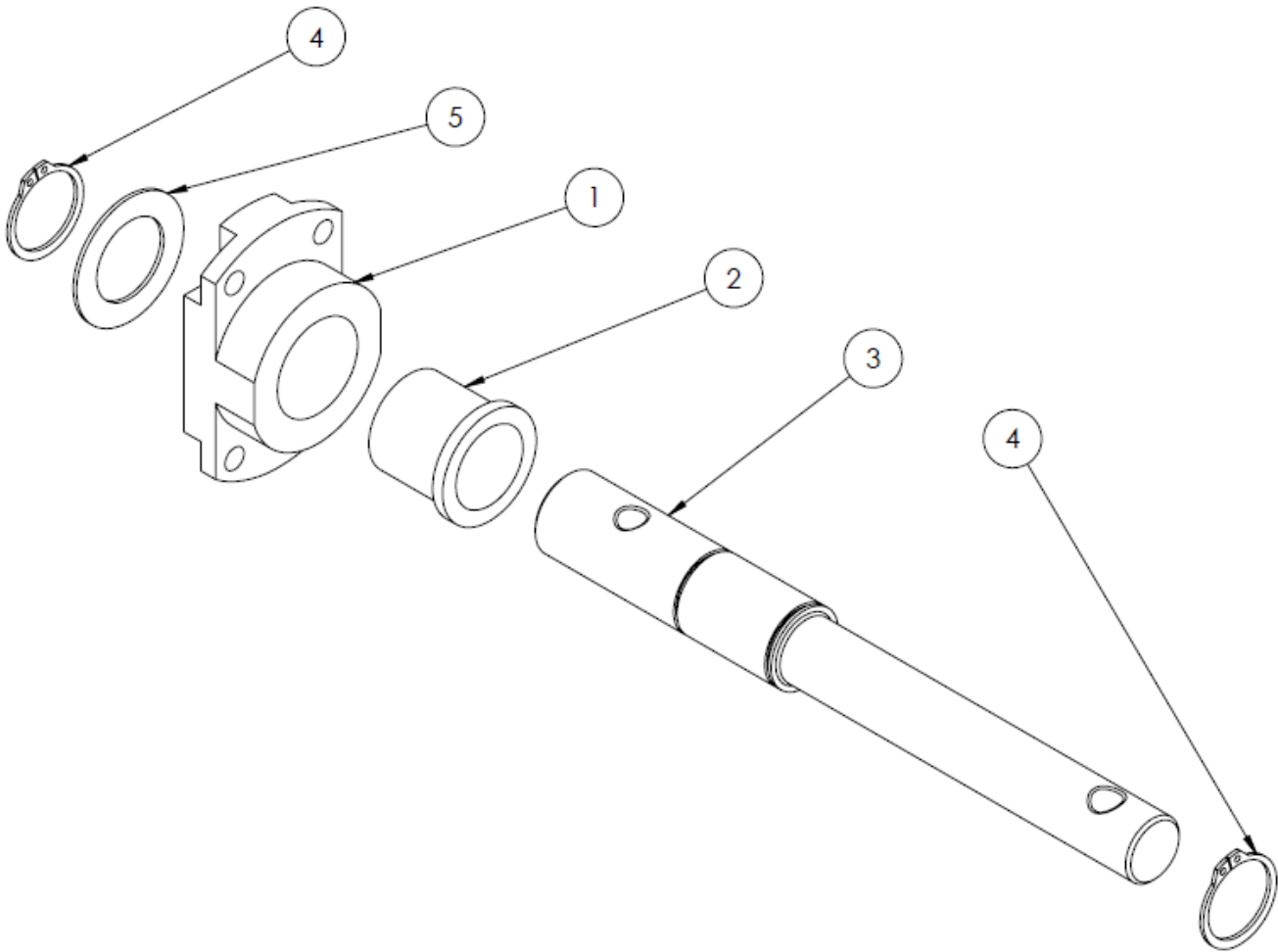
96-0475 - SWING WEIGHT ASSEMBLY LEFT – 650 - F

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	53-0794	WEIGHT ARM WELD LEFT - 650	1
2	51-3310	WEIGHT PIN	1
3	13-0600	LEVERAGE PIN	1
4	13-0603	PIN LOCK SPRING	1
5	13-0604	KNOB	2
6	51-3370	SWING WEIGHT PAD - 650	1



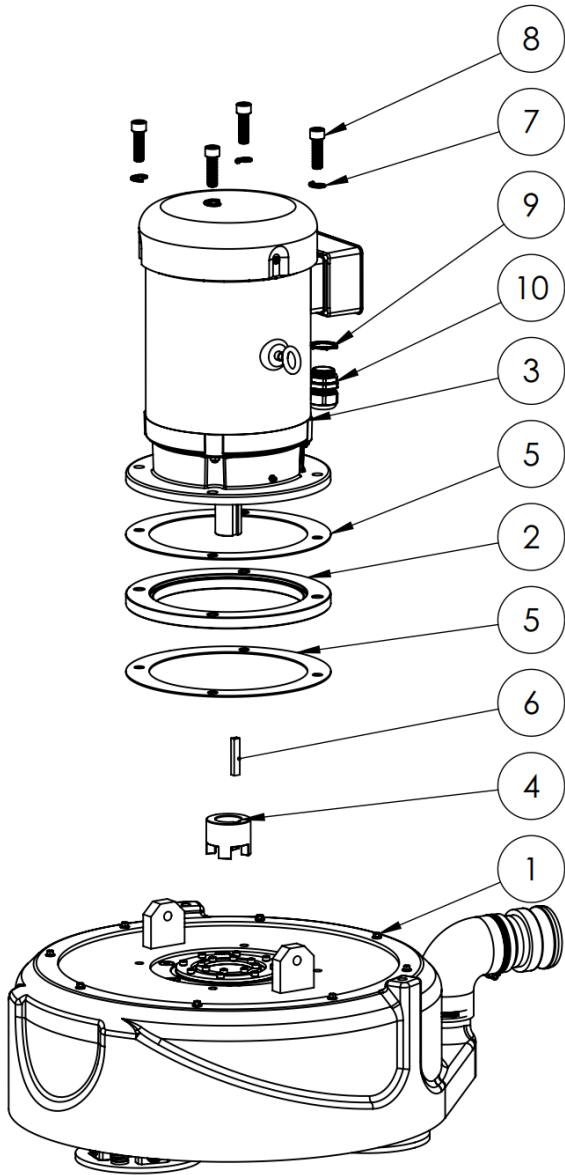
96-0469 - SWING WEIGHT BUSHING ASSEMBLY - B

ITEM NO.	Part Number	DESCRIPTION	QTY.
1	51-3306	BUSHING HOUSING	1
2	13-0601	WEIGHT BUSHING	1
3	51-3308	SPINDLE	1
4	13-0606	RETAINING RING 30MM	2
5	13-0607	THRUST WASHER 30MM	1



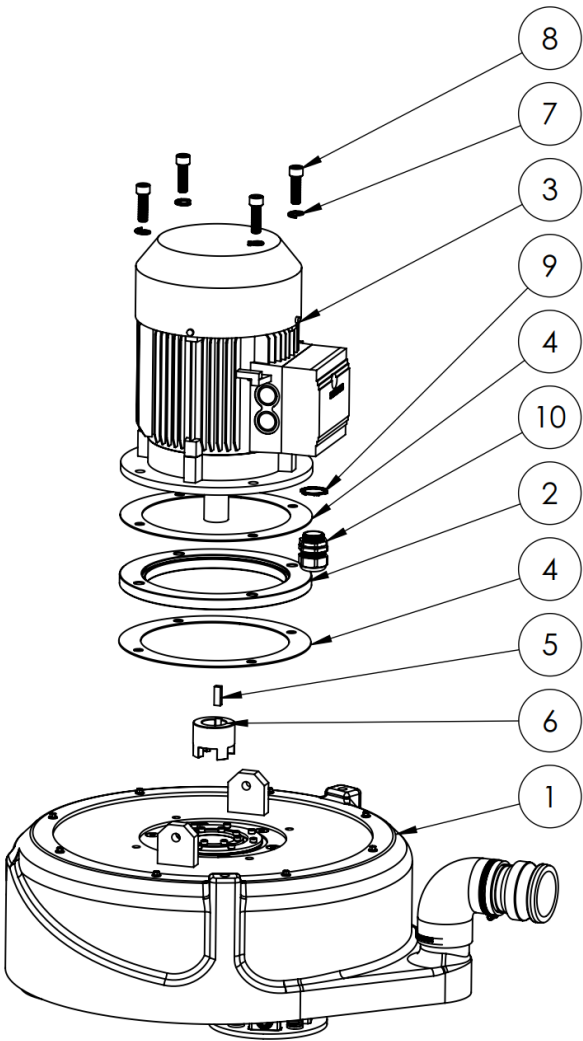
96-0615 DRUM MOTOR SUB ASSEM 650E 1PH – C

ITEM NO.	Part Number	DESCRIPTION	QTY.
1	96-0460	DRUM ASSEMBLY - 650	1
2	51-3377	DRUM TO DRIVE SPACER - 650E	1
3	23-0246	SINGLE PHASE MOTOR - 650E	1
4	13-0706	COUPLER, CJ28/38 LOVEJOY 650PRO	1
5	13-0675	DRUM TO DRIVE GASKET - 650	2
6	13-0719	KEY M10X8X55 SQUARE 650E	1
7	12-1470	LOCK WASHER - M14 - ZINC	4
8	12-1400-45	SOCKET HEAD CAP SCREW - M14X45 - ZINC	4
9	23-0247	CONDUIT NUT 1IN	1
10	23-0248	CORD GRIP 1IN	1



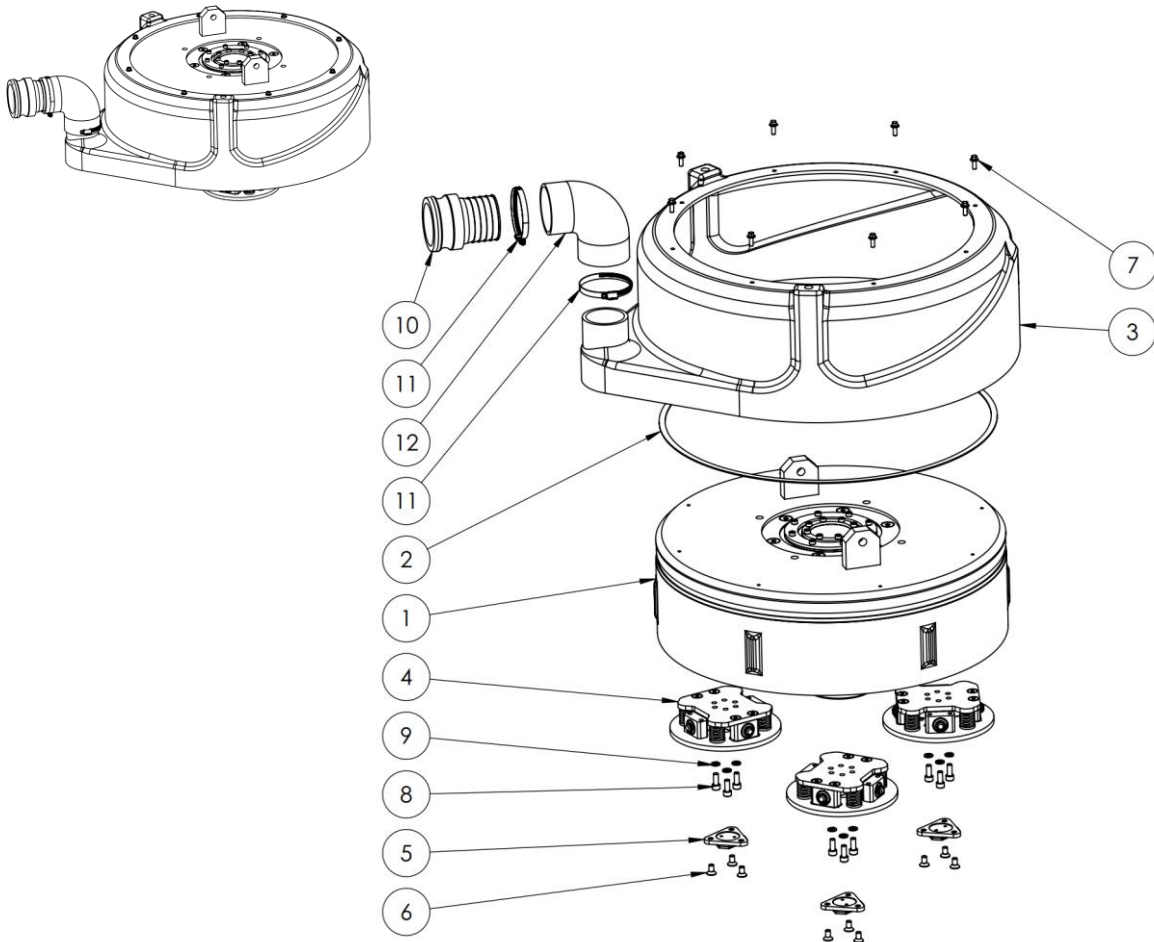
96-0607 DRUM MOTOR SUB ASSEM 650 3PH - B

ITEM NO.	Part Number	DESCRIPTION	QTY.
1	96-0460	DRUM ASSEMBLY - 650	1
2	51-3377	DRUM TO DRIVE SPACER - 650E	1
3	23-0253	3PHASE 10KW MOTOR 650E	1
4	13-0675	DRUM TO DRIVE GASKET - 650	2
5	13-0705	KEY M10X8X30 650E	1
6	13-0706	COUPLER, CJ28/38 LOVEJOY 650PRO	1
7	12-1470	LOCK WASHER - M14 - ZINC	4
8	12-1400-45	SOCKET HEAD CAP SCREW - M14X45 - ZINC	4
9	23-0247	CONDUIT NUT 1IN	1
10	23-0248	CORD GRIP 1IN	1



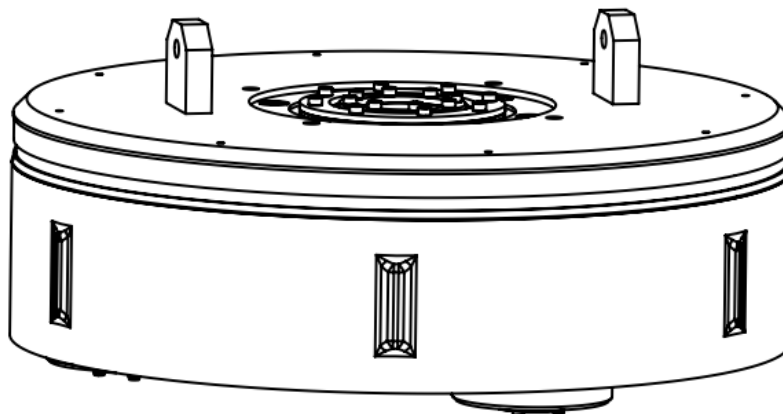
96-0460 - DRUM ASSEMBLY – 650 - C

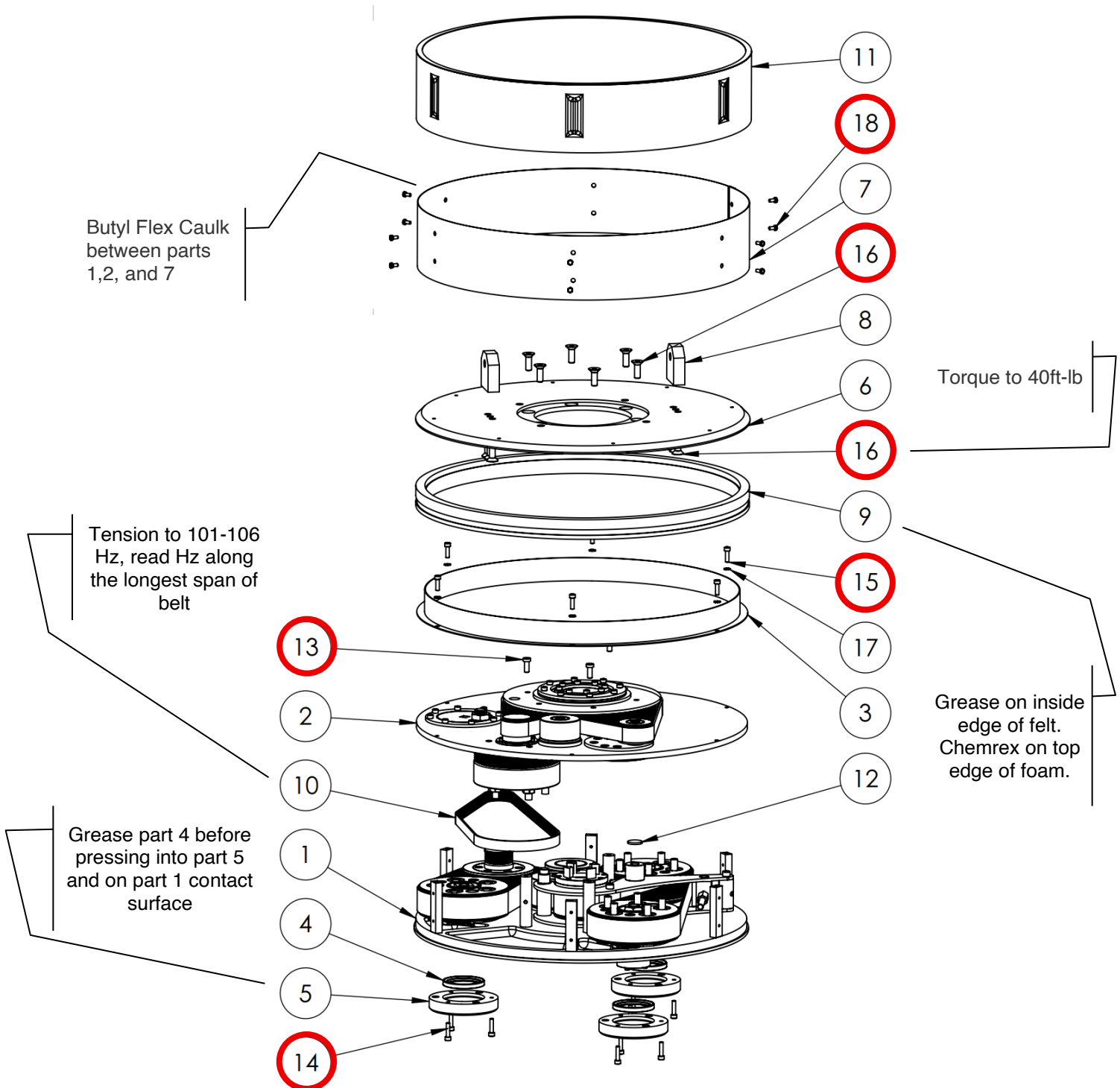
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	BG.60210.00	DRUM, COMPLETE /BG6K	1
2	BG.20249.00	RUBBER, EPDM GASKET /BG8K 6K 5K	1
3	BG.60038.00	SHROUD, MOLDED VACUUM /BG6K	1
4	BG.6A010.85	FLEX HEAD, NO SHAM WITH BLUE SPRINGS /BG6K	3
5	96-0785	TOOLING TRIANGLE ASSEMBLY 650	3
6	12-0880-16	FLAT HEAD SOCKET SCREW - M8X16 - ZINC	9
7	NB.11.108	HEX FLANGE SCREW, M6 X 1.0 X 16	8
8	NB.10.218	SCREW, SOCKET HEAD CAP M8-1.25 X 20	9
9	NB.30.212	WASHER LOCK - ZINC - M8	9
10	13-0613	MALE 3IN CAMLOCK BARBED	1
11	13-0672	HOSE CLAMP 3IN SMOOTH	2
12	13-0616	SHROUD TO VAC ELBOW 3IN	1



BG.60210.00 – DRUM, COMPLETE /BG6K

Item No.	Part Number	Description	Qty.
1	BG.6A035.15	6K BOTTOM DRUM SUBASSEMBLY	1
2	BG.6A035.20	6K TOP DRUM SUBASSEMBLY	1
3	BG.60037.00	TOP BELT DUST SHROUD	1
4	BG.20286.02	SEAL, AXLE NITRILE AL. SLURRY COVER /BG8K BG6K BG5K (WA)	3
5	BG.20285.02	SEAL HOLDER FOR SEAL 22817 6K & 8K	3
6	BG.60034.00	STATIONARY PLATE, 6K DRUM	1
7	BG.60036.00	BOTTOM BELT DUST SHROUD. 6K DRUM	1
8	BG.60046.00	DRUM MOUNTING EARS / BG 6K	2
9	BG.60047.00	6K FOAM FELT SEAL	1
10	BG.60057.00	PTO BELT 6K	1
11	BG.20287.00	TAPE, PRESERVATION HEAT SHRINK 3" WHITE	40FT
12	BG.20249.00	RUBBER, EPDM GASKET /BG8K 6K 5K	0.25FT
13	NB.10.219	SCREW, SLHC M8-1.25 X 20 ZINC CLASS 8.8	3
14	NB.12.117	SCREW, SOCKET HEAD CAP M6-1.0 X 25	9
15	NB.12.116	SCREW, SOCKET HEAD CAP M6-1.0 X 20 12.9 ZINC	6
16	NB.13.252	SCREW, SOCKET FLAT HEAD CAP M10-1.5 X 30	12
17	NB.30.215	LOCK WASHER TOOTH M6	6
18	NB.16.113	SCREW, HEX HEAD CAP M5-0.8 X 10 ZINC 8.8	12

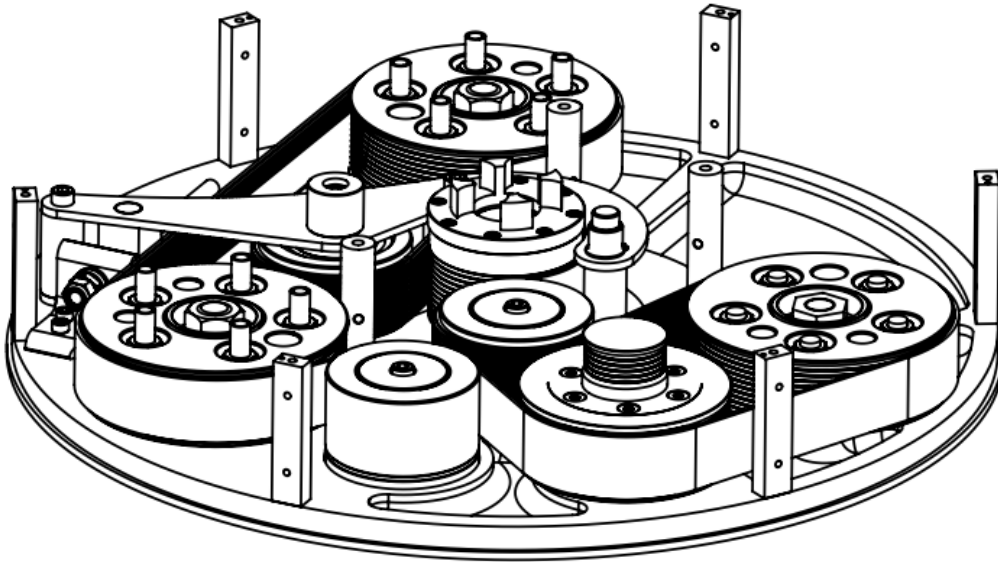


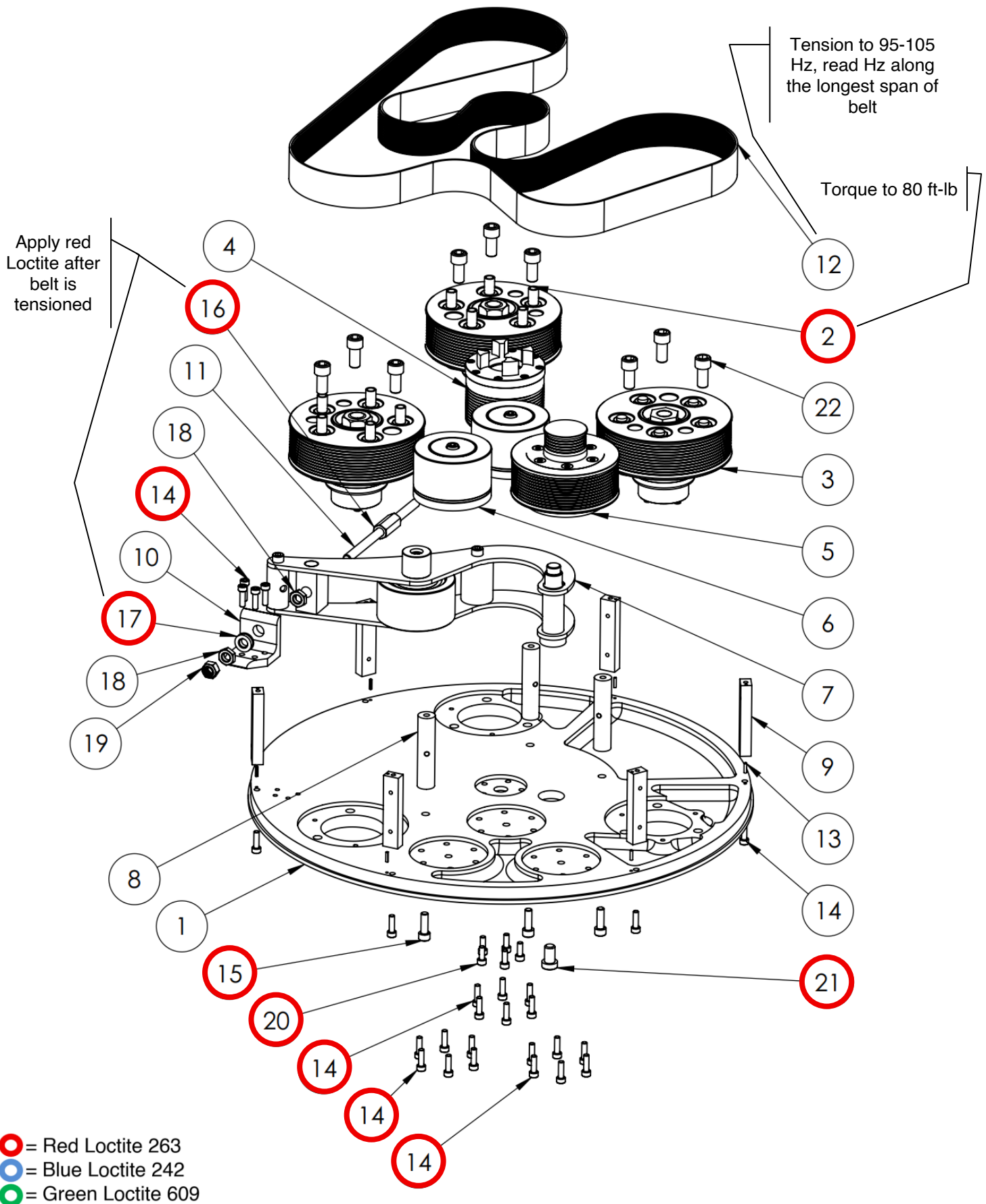


-  = Red Loctite 263
-  = Blue Loctite 242
-  = Green Loctite 609

BG.6A035.15 – 6K BOTTOM DRUM SUB ASSEMBLY

Item No.	Part Number	Description	Qty.
1	BG.60023.10	BOTTOM PLATE, DRUM BOTTOM SUBASSEMBLY 6K	1
2	BG.6A008.00	PLANETARY SUBASSEMBLY, 6K	2
3	BG.6A008.10	PLANETARY SUBASSEMBLY SHORT, 6K	1
4	BG.6A007.00	MAIN DRIVE SPINDLE, 6K	1
5	BG.6A009.00	PTO ASSEMBLY, 6K	1
6	BG.6A006.00	MAIN BELT IDLER, 6K	2
7	BG.6A005.00	MAIN BELT TENSIONER SUBASSEMBLY, 6K	1
8	BG.60011.00	INNER STANCHION, BOTTOM DRUM SUBASSEMBLY, 6K	3
9	BG.60010.00	PERIMETER STANCHION, BOTTOM DRUM SUBASSEMBLY, 6K	6
10	BG.45017.25	REACTION POST - STYLE II	1
11	BG.45018.25	TIGHTENER ROD, BG 5K	1
12	BG.60056.00	MAIN BELT 6K	1
13	NB.50.147	PIN, SPIRAL M3 X 16	6
14	NB.12.116	SCREW, SOCKET HEAD CAP M6-1.0 X 20 12.9 ZINC	28
15	NB.12.219	SCREW, SOCKET HEAD CAP M8-1.25 X 25	3
16	NB.20.119	NUT, COUPLER M10-1.5	1
17	NB.32.101	WASHER, SPHERICAL M10	1
18	NB.20.109	NUT, JAM M12-1.75	2
19	NB.20.131	NUT, NYLOC M10 ZINC	1
20	NB.12.111	SCREW, SOCKET HEAD CAP M6 -1.0 X 16 12.9 ZINC	5
21	NB.12.232	SCREW, SOCKET HEAD M12-1.75 X 20 LOW HEAD	1
22	NB.12.249	SCREW, SOCKET HEAD CAP M12-1.75 X 25 12.9 ZINC	9

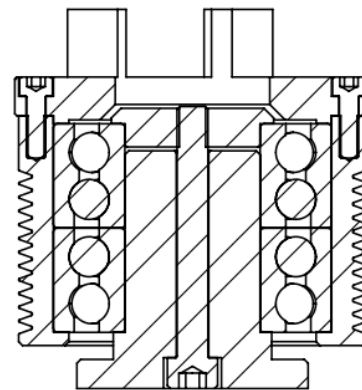
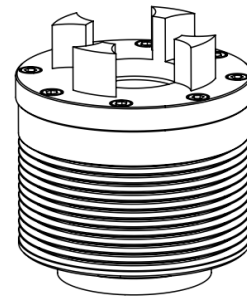
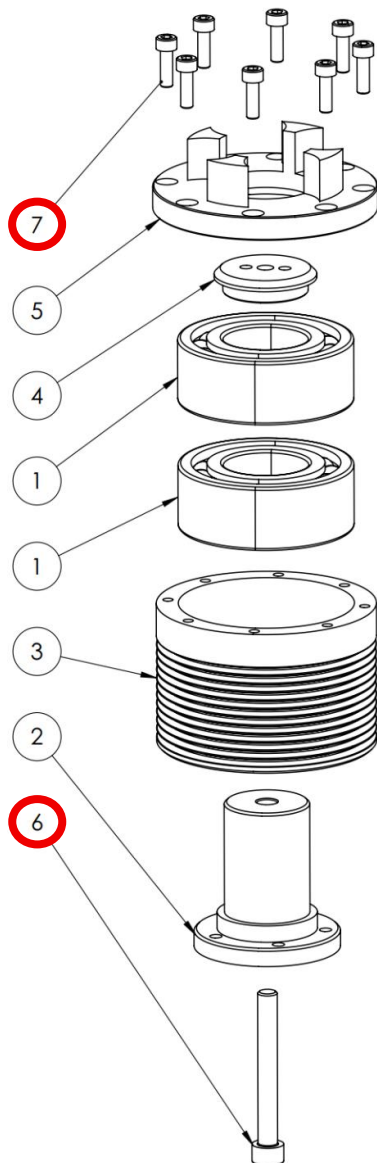




BG.6A007.00 –MAIN DRIVE SPINDLE, 6K

Item No.	Part Number	Description	Qty.
1	BG.20216.00	BEARING, 3207 A-2RSI/C3	2
2	BG.60005.10	SPINDLE, MAIN DRIVE SHEAVE, 6K	1
3	BG.60004.60	MAIN DRIVE SHEAVE, 6K	1
4	BG.60005.11	BEARING RETAINER CAP, 6K	1
5	BG.60039.60	ADAPTOR, COUPLING, 6K	1
6	NB.12.222	SCREW, SOCKET HEAD CAP M8-1.25 X 65 ZINC	1
7	NB.12.090	SCREW, SOCKET HEAD CAP M5-0.8 X 16	8

NOTE: Special wrench DG.1499 is required

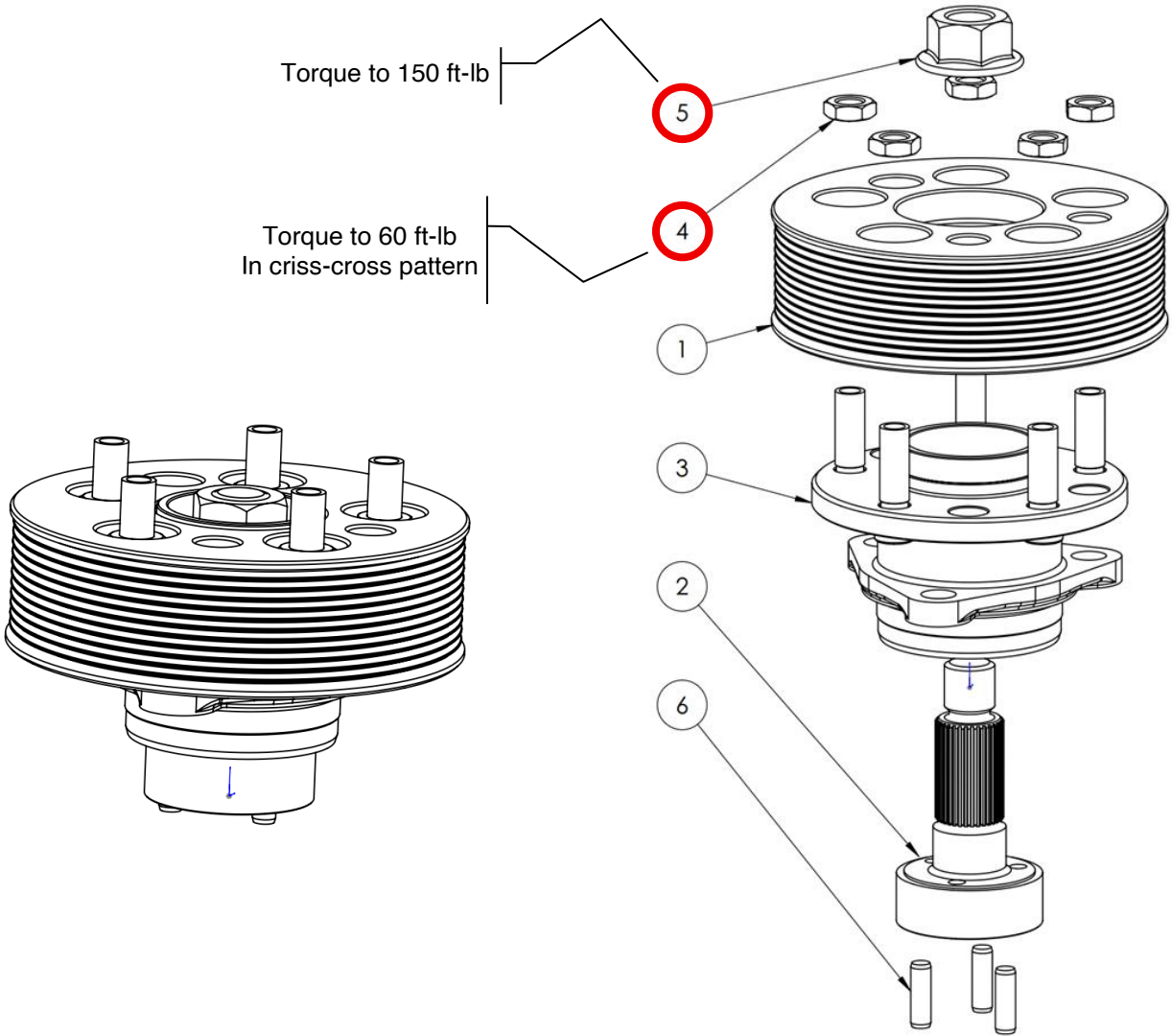


SECTION C-C
SCALE 1 : 2

-  = Red Loctite 263
-  = Blue Loctite 242
-  = Green Loctite 609

BG.6A008.00 – PLANETARY SUBASSEMBLY, 6K

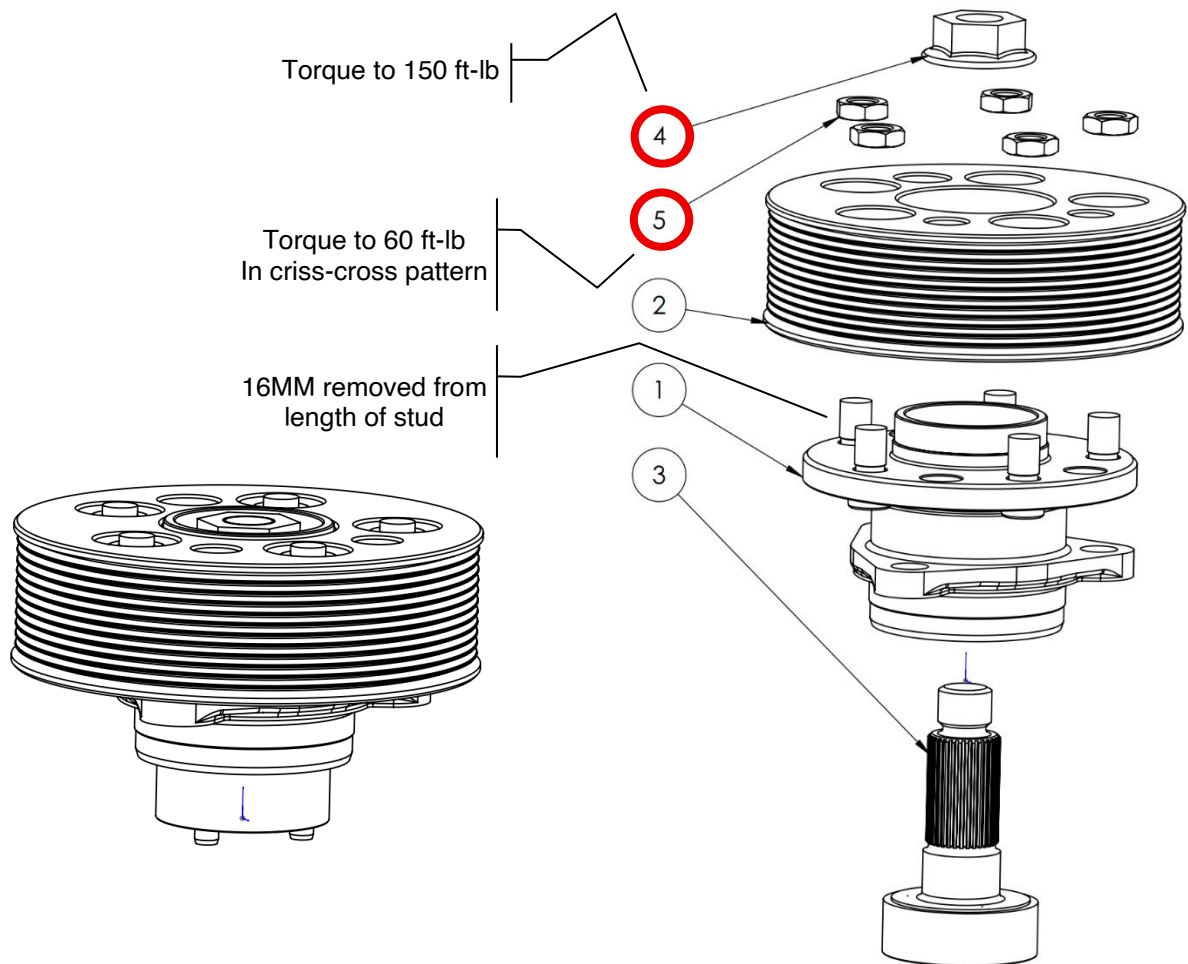
Item No.	Part Number	Description	Qty.
1	BG.60001.00	6K PLANETARY SHEAVE	1
2	BG.20200.00	AXLE, PLANETARY, 40MM	1
3	BG.20201.00	HUB TIMKIN BEARING	1
4	NB.20.109	NUT, JAM M12-1.75	5
5	NB.20.108	NUT, HEX FLANGE M20-2.5	1
6	NB.50.143	PIN, HARDENED M8 X 26	3



-  = Red Loctite 263
-  = Blue Loctite 242
-  = Green Loctite 609

BG.6A008.10 – PLANETARY SUBASSEMBLY SHORT, 6K

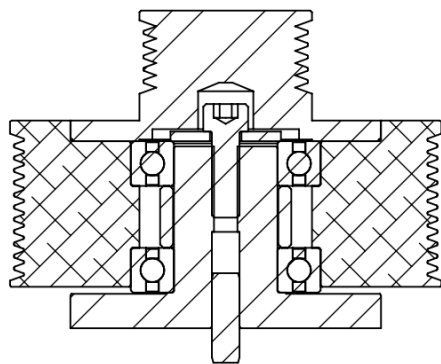
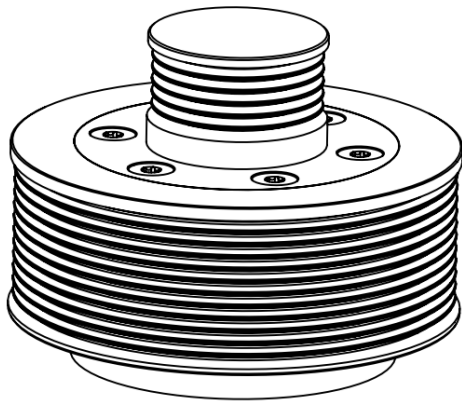
Item No.	Part Number	Description	Qty.
1	BG.60024.00	TOP PLATE, TOP DRUM ASSEMBLY, 6K	1
2	BG.2A001.10	PTO TENSIONER SUBASSEMBLY, 6K/8K	1
3	BG.6A001.00	DRUM SHEAVE SUBASSEMBLY, 6K	1
4	BG.6A002.00	INTERMEDIATE SHEAVE SUBASSEMBLY, 6K	1
5	BG.6A003.00	TOP BELT IDLER SUBASSEMBLY	1
6	BG.6A004.00	TOP BELT TENSIONER SUBASSEMBLY 6K	1
7	BG.60058.00	TOP BELT 6K	1
8	NB.12.249	SCREW, SOCKET HEAD CAP M12-1.75 X 25 12.9 ZINC	3



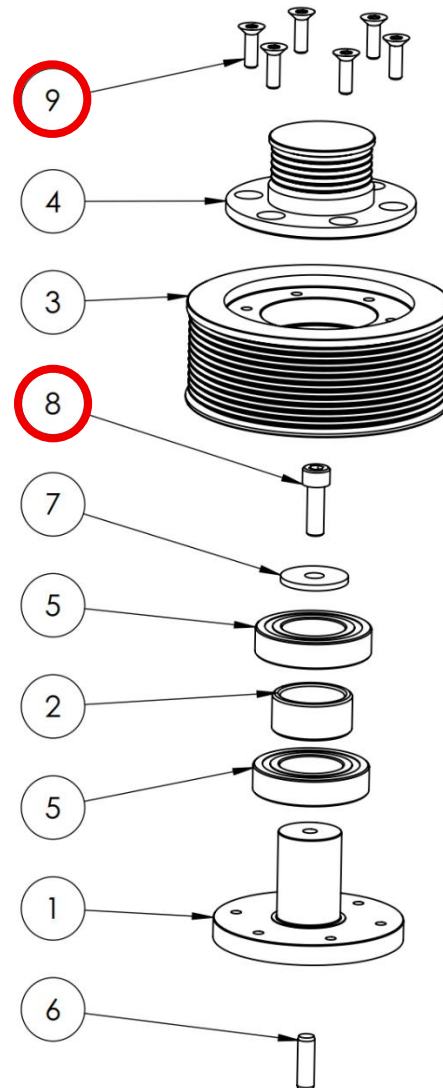
-  = Red Loctite 263
-  = Blue Loctite 242
-  = Green Loctite 609

BG.6A009.00 – PTO SUBASSEM, 6K

Item No.	Part Number	Description	Qty.
1	BG.60008.00	SPINDLE, MAIN BELT IDLER 6K	1
2	BG.60053.00	BEARING SPACER	1
3	BG.60002.00	SHEAVE, PTO HUB, 6K	1
4	BG.60003.00	SHEAVE, PTO DRIVE, 6K	1
5	BG.20221.00	BEARING, 6006-2RS	2
6	NB.50.143	PIN, HARDENED M8 X 26	1
7	NB.30.112	FENDER WASHER M8.4X35X2.5 ZINC	1
8	NB.12.219	SCREW, SOCKET HEAD CAP M8-1.25 X 25	1
9	NB.13.116	SCREW, FLAT HEAD SOCKET, TORX CAP M6 -1.0 X 20	6



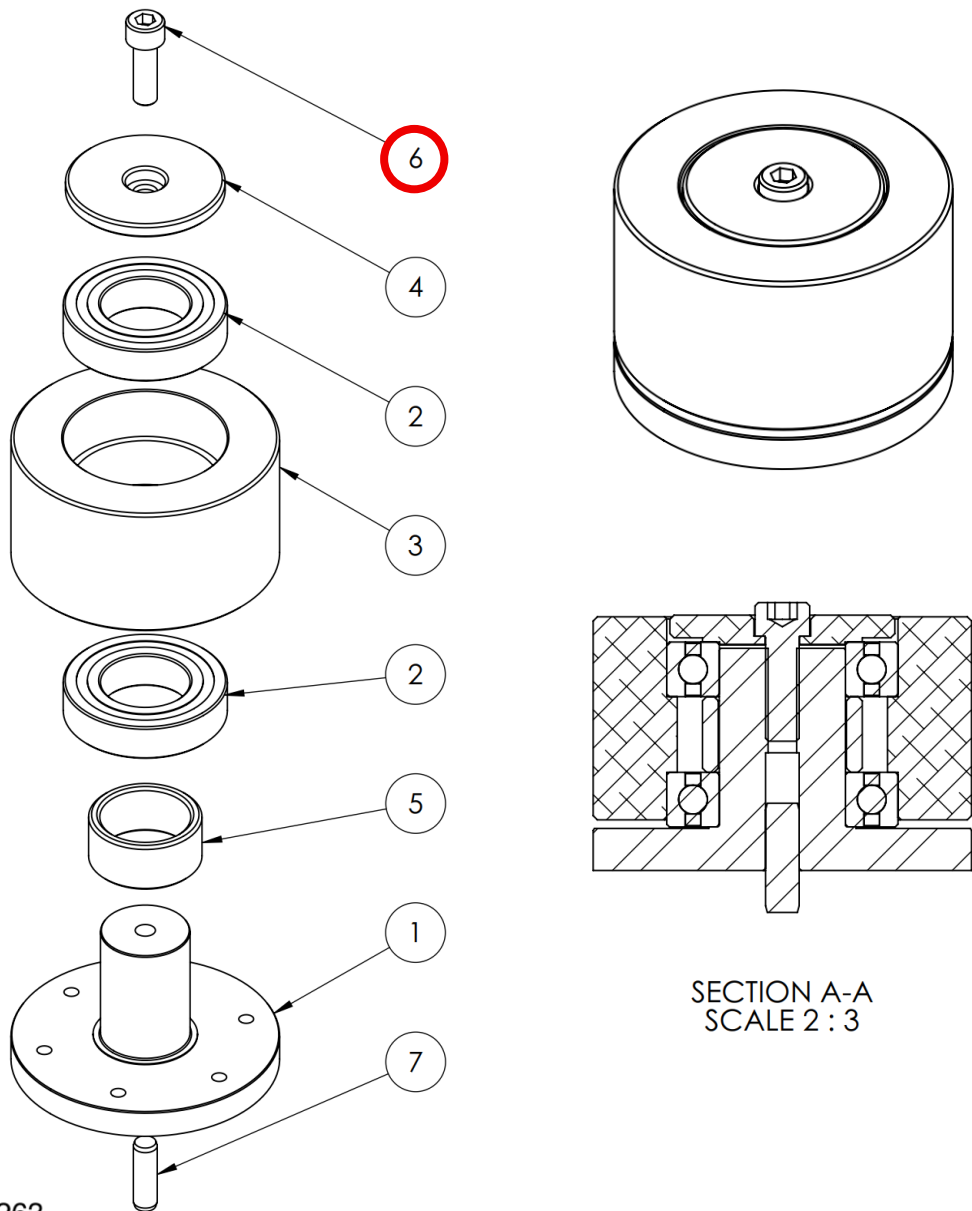
SECTION C-C
SCALE 1 : 2



-  = Red Loctite 263
-  = Blue Loctite 242
-  = Green Loctite 609

BG.6A006.00 – MAIN BELT IDLER, 6K

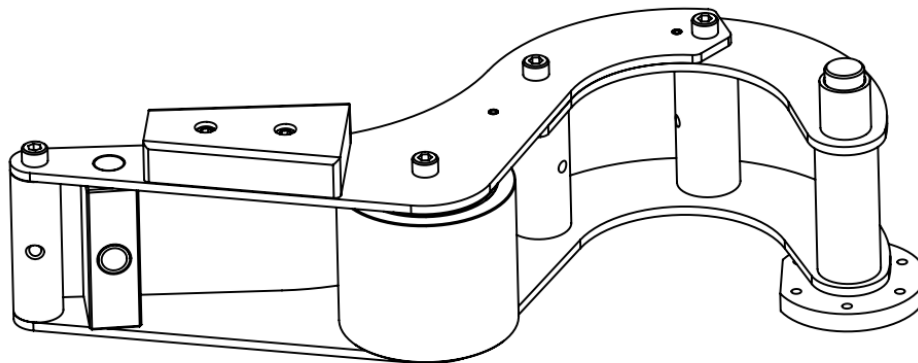
Item No.	Part Number	Description	Qty.
1	BG.60008.00	SPINDLE, MAIN BELT IDLER 6K	1
2	BG.20221.00	BEARING, 6006-2RS	2
3	BG.60007.00	IDLER, MAIN BELT 6K	1
4	BG.60009.00	RETAINER, IDLER BEARING 6K	1
5	BG.60053.00	BEARING SPACER	1
6	NB.12.219	SCREW, SOCKET HEAD CAP M8-1.25 X 25	1
7	NB.50.143	PIN, HARDENED M8 X 26	1



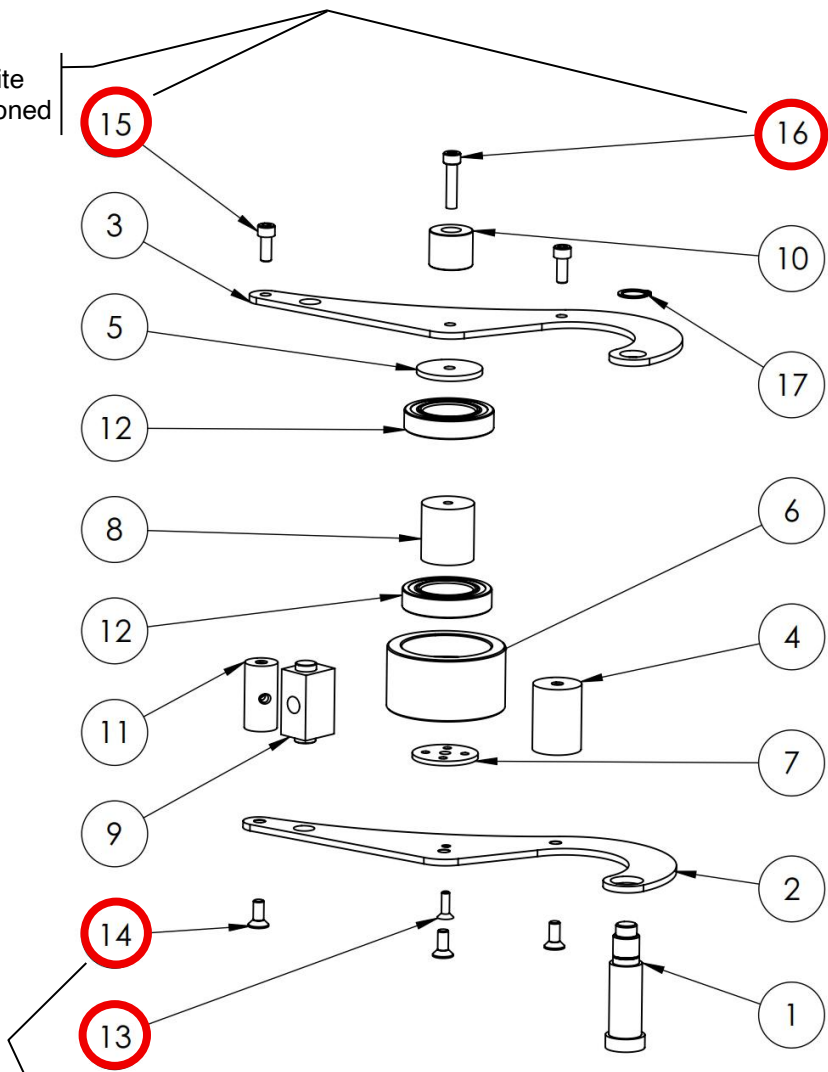
-  = Red Loctite 263
-  = Blue Loctite 242
-  = Green Loctite 609

BG.6A005.00 – MAIN BELT TENSIONER SUBASSEMBLY, 6K

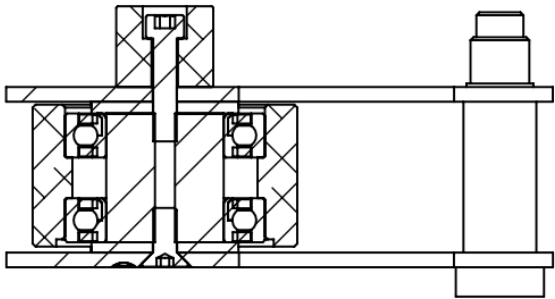
Item No.	Part Number	Description	Qty.
1	BG.60012.10	SPINDLE, MAIN TENSIONER 6K	1
2	BG.60013.10	LOWER ARM, MAIN BELT TENSIONER 6K	1
3	BG.60014.00	UPPER ARM, MAIN BELT TENSIONER, 6K	1
4	BG.60015.20	STANCHION, HEAVY MAIN BELT TENSIONER, 6K	1
5	BG.60016.00	IDLER SPINDLE UPPER SPACER, MAIN BELT TENSIONER, 6K	1
6	BG.60017.00	IDLER, MAIN BELT TENSIONER 6K	1
7	BG.60020.00	SPACER, IDLER SPINDLE MAIN BELT TENSIONER 6K	1
8	BG.60018.10	IDLER SPINDEL, MAIN BELT TENSIONER 6K	1
9	BG.60022.00	GRUDGEON, MAIN BELT TENSIONER, 6K	1
10	BG.60016.01	TOP SPACER	1
11	BG.60019.00	LIGHT STANCHION, MAIN BELT TENSIONER	1
12	BG.20217.00	BEARING, 6008-2RS	2
13	NB.13.116	SCREW, FLAT HEAD SOCKET, TORX CAP M6 -1.0 X 20	1
14	NB.13.218	SCREW, FLAT HEAD SOCKET CAP M8-1.25 X 20	3
15	NB.10.218	SCREW, SOCKET HEAD CAP M8-1.25 X 20	2
16	NB.10.231	SCREW, SOCKET HEAD CAP M8-1.25 X 35	1
17	NB.40.104	RING, EXTERNAL RETAINING M20	1



Apply red Loctite
after belt is tensioned



Apply red Loctite
after belt is tensioned

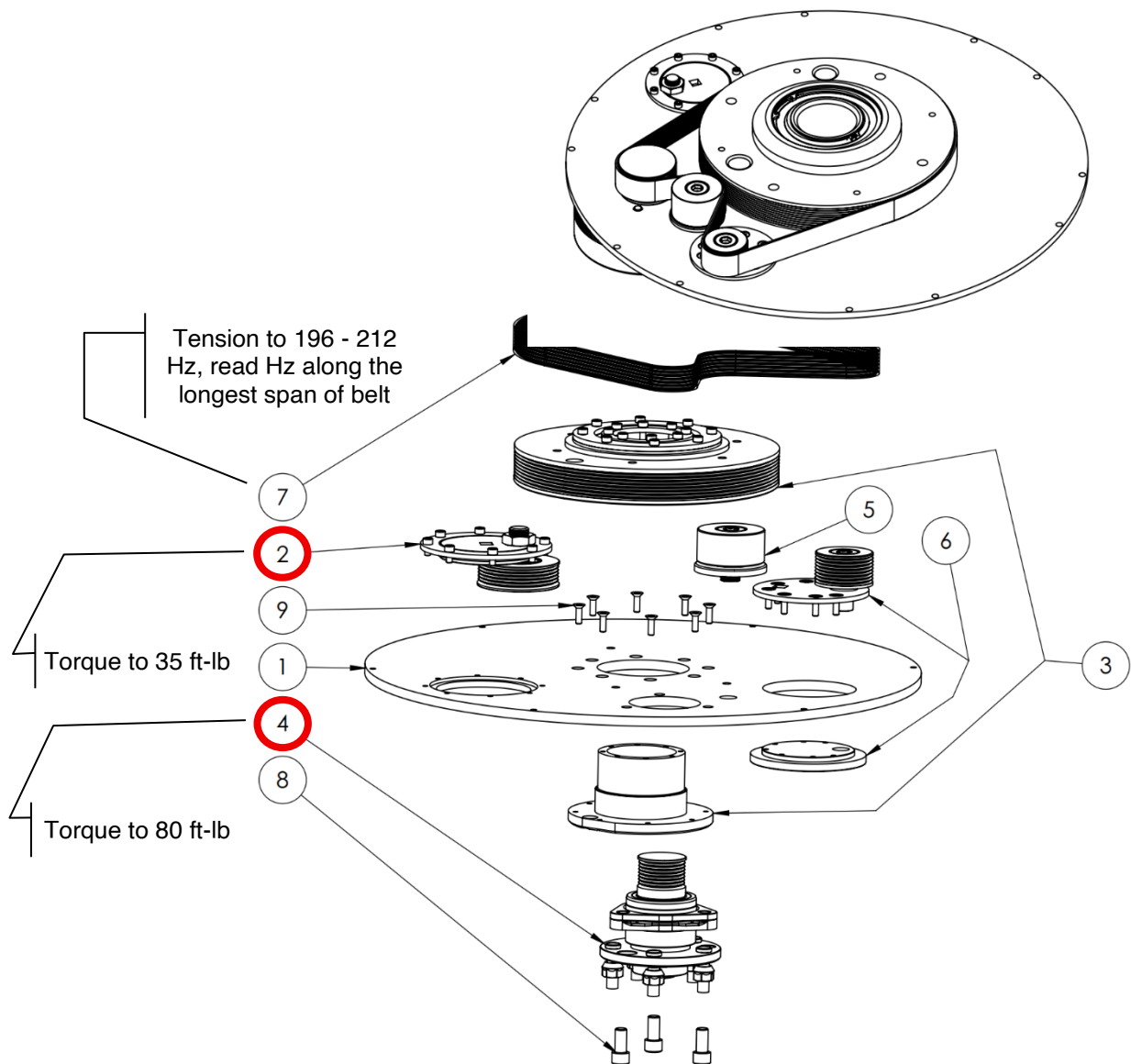


SECTION C-C
SCALE 1 : 3

-  = Red Loctite 263
-  = Blue Loctite 242
-  = Green Loctite 609

BG.6A035.20 – 6K TOP DRUM SUBASSEMBLY

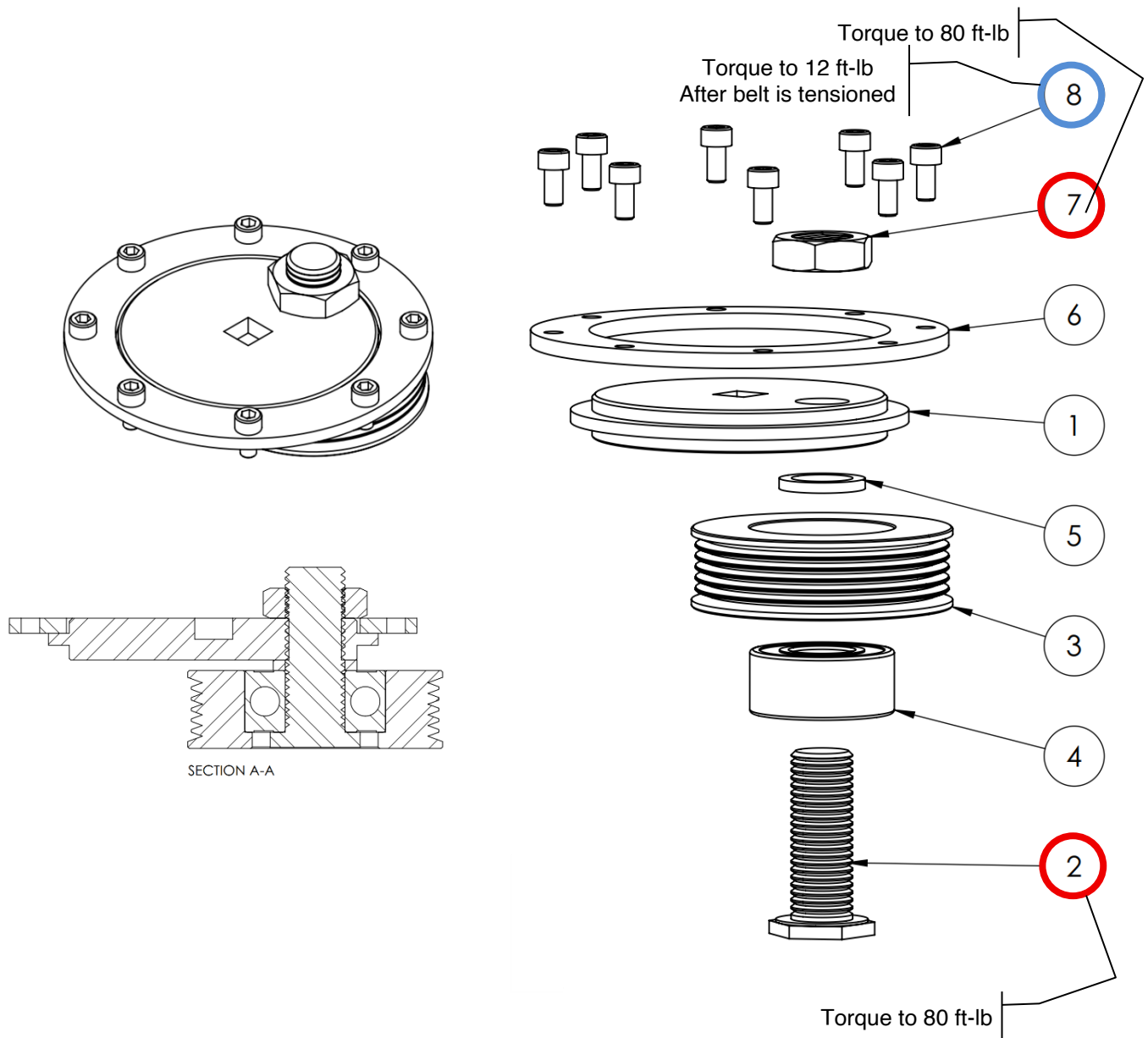
Item No.	Part Number	Description	Qty.
1	BG.80028.00	TOP DRUM PLATE	1
2	BG.2A001.10	PTO TENSIONER SUBASSEMBLY, 6K/8K	1
3	BG.8A004.10	SUBASSEM, TOP TENSIONER	1
4	BG.8A003.10	SUBASSEM, TOP BELT IDLER	1
5	BG.8A002.00	SUBASSEM, INTERMEDIATE SHEAVE	1
6	BG.8A001.10	SUBASSEM, DRUM SHEAVE	1
7	BG.80041.00	TOP BELT	1
8	NB.12.252	SOCKET HEAD CAP SCREW - ZINC - M12X30	3
9	NB.13.218	SCREW, FLAT HEAD SOCKET CAP M8-1.25 X 20	8



-  = Red Loctite 263
-  = Blue Loctite 242
-  = Green Loctite 609

BG.2A001.10 – PTO TENSIONER SUBASSEMBLY, 6K/8K

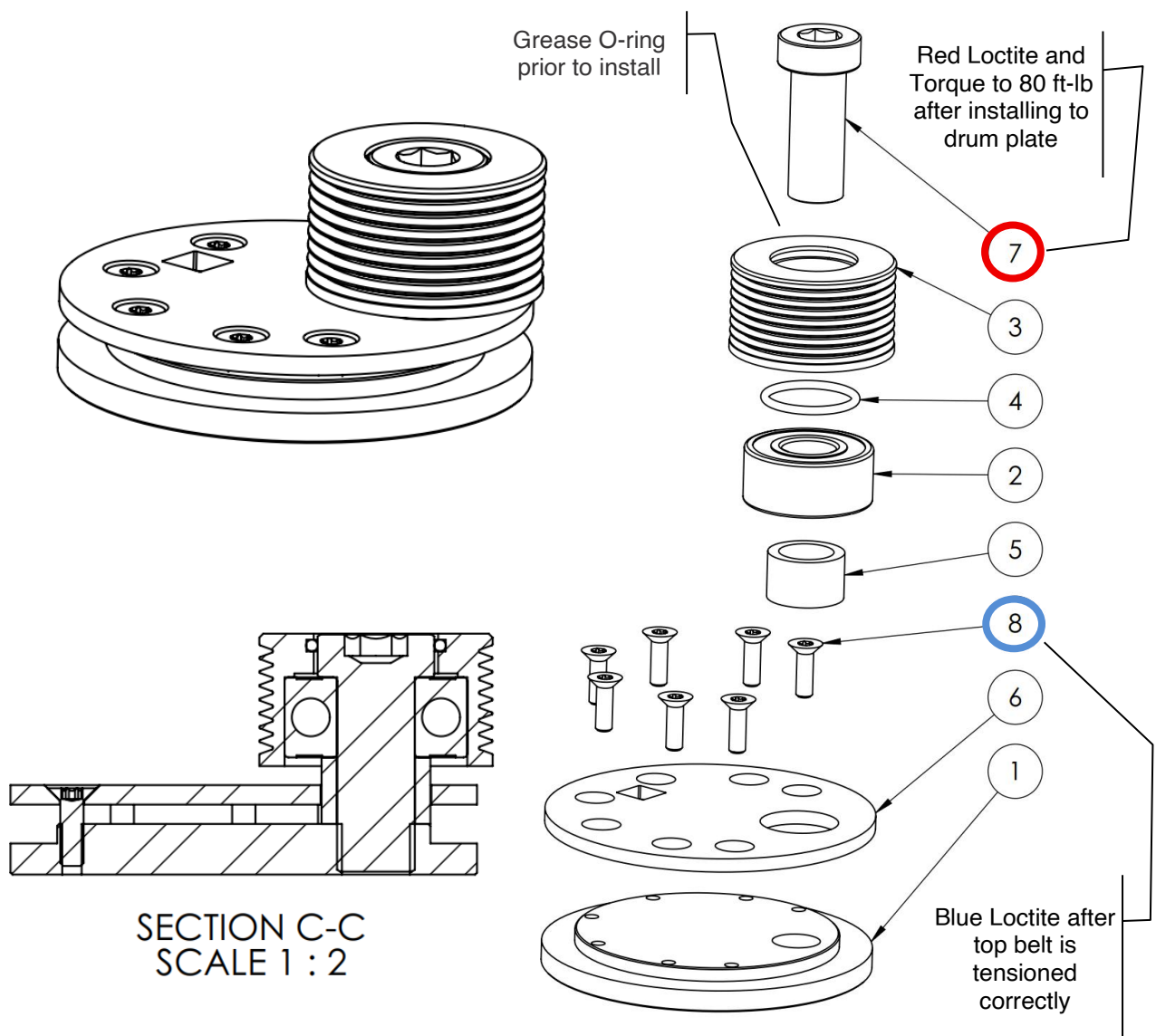
Item No.	Part Number	Description	Qty.
1	BG.20204.00	PLATE, PTO TENSIONER SUBASSEMBLY, 6K/8K	1
2	BG.20214.00	SCREW, HEX HEAD MODIFIED M20-2.5 X 55 /BG6K8K	1
3	BG.20212.00	IDLER, PTO TENSIONER SUBASSEMBLY, 6K/8K	1
4	BG.20220.10	BEARING, 3204-2RS	1
5	BG.20211.00	SPACER, PTO TENSIONER SUBASSEMBLY, 6K/8K	1
6	BG.20203.00	CLAMP, PTO TENSIONER SUBASSEMBLY 6K/8K	1
7	NB.20.110	NUT, JAM M20 - 2.5	1
8	NB.12.108	SOCKET HEAD CAP SCREW – ZINC – M6X12	8



-  = Red Loctite 263
-  = Blue Loctite 242
-  = Green Loctite 609

BG.6A004.00 – TOP BELT TENSIONER SUBASSEMBLY 6K

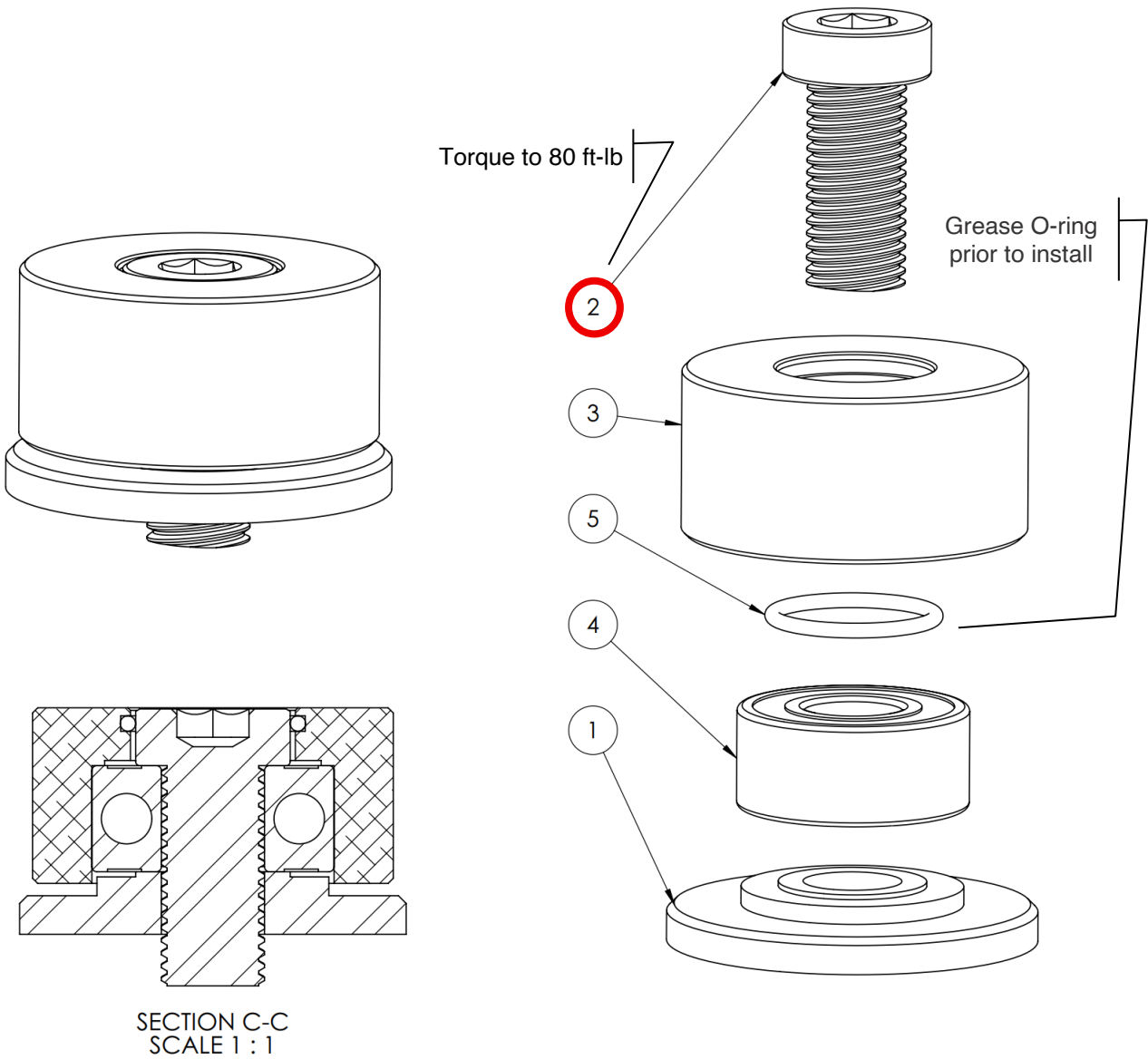
Item No.	Part Number	Description	Qty.
1	BG.20205.50	PLATE, BELT TENSIONER	1
2	BG.20220.00	BEARING, 3204-2RS	1
3	BG.60031.00	IDLER, TOP BELT TENSIONER 6K	1
4	BG.20215.00	O-RING, M30	1
5	BG.20210.00	TOP BELT TENSION IDLER SPACER	1
6	BG.20206.50	CLAMP, TOP BELT TENSIONER	1
7	NB.12.263	SCREW, LOW SOCKET HEAD CAP M20-2.5 X 50	1
8	NB.13.116	SCREW, FLAT HEAD SOCKET, TORX CAP M6 -1.0 X 20	7



-  = Red Loctite 263
-  = Blue Loctite 242
-  = Green Loctite 609

BG.6A003.00 – TOP BELT IDLER SUBASSEMBLY

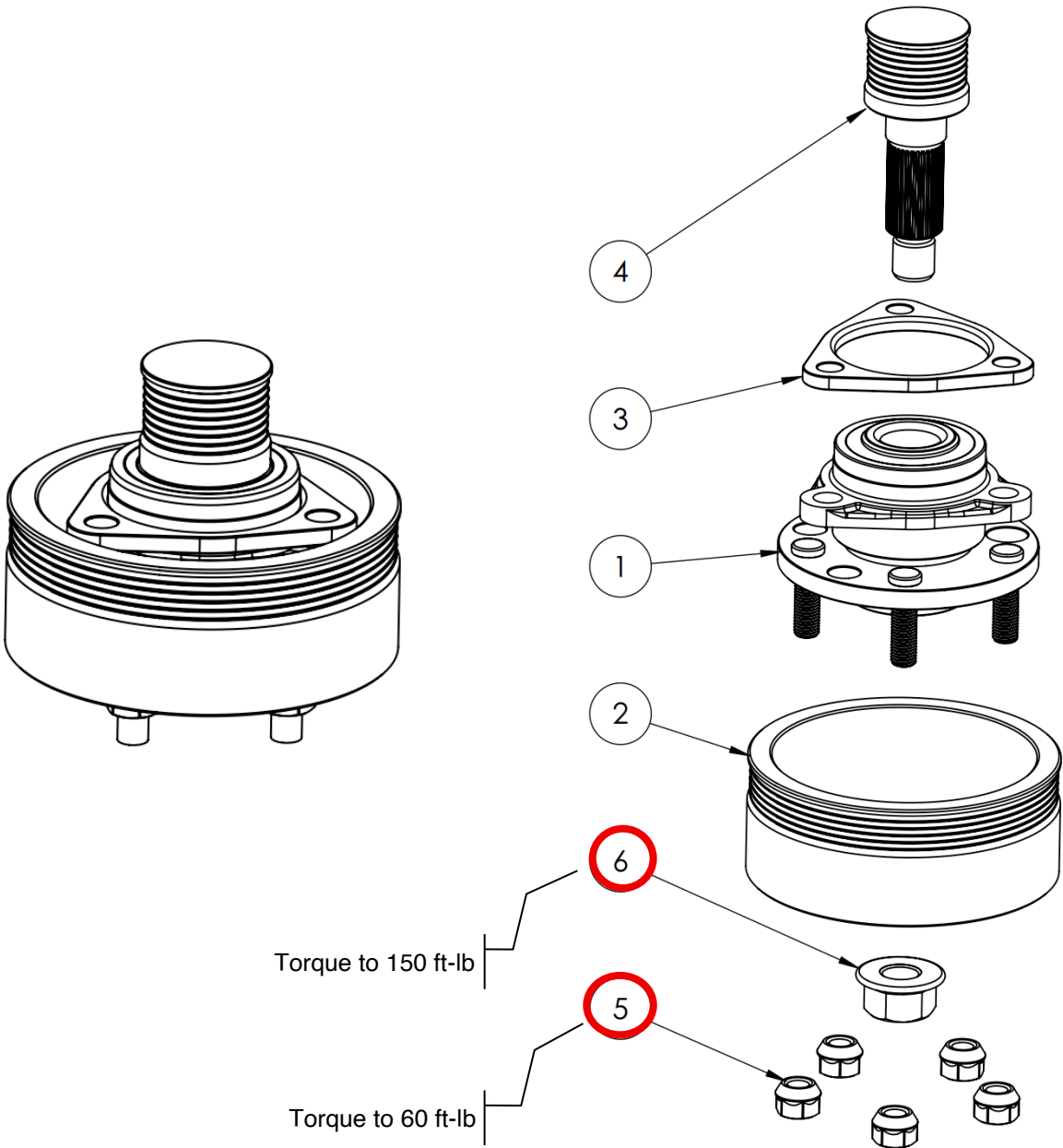
Item No.	Part Number	Description	Qty.
1	BG.60027.00	BASE, TOP BELT IDLER SUBASSEMBLY, 6K	1
2	BG.60073.00	SCREW, MODIFIED SOCKET HEAD M20-2.5 CLASS 8.8	1
3	BG.60028.00	IDLER, TOP BELT IDLER SUBASSEMBLY	1
4	BG.20220.00	BEARING, 3204-2RS	1
5	BG.20215.00	O-RING, M30	1



 = Red Loctite 263
 = Blue Loctite 242
 = Green Loctite 609

BG.6A002.00 – INTERMEDIATE SHEAVE SUBASSEMBLY, 6K

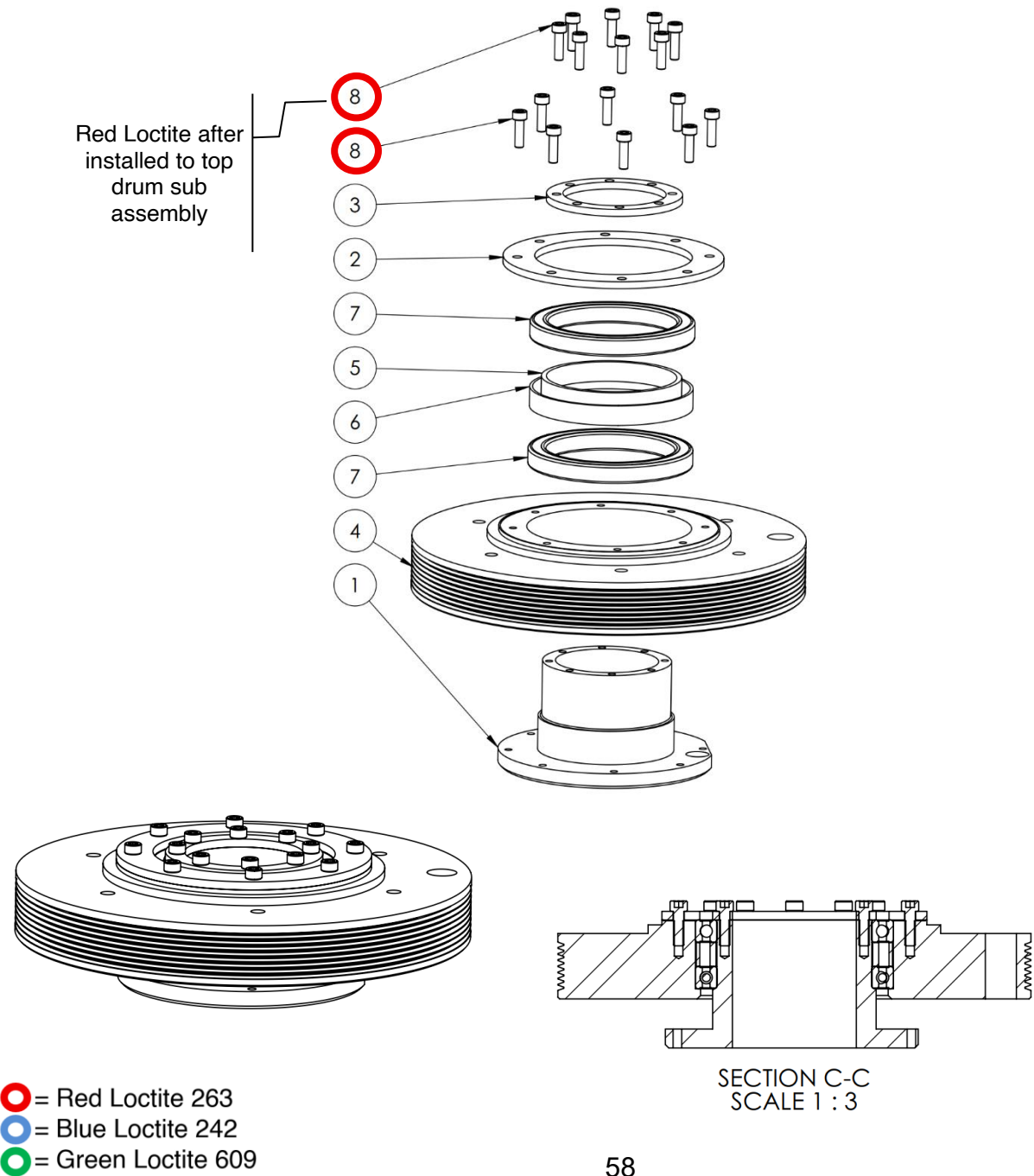
Item No.	Part Number	Description	Qty.
1	BG.20201.00	HUB TIMKIN BEARING	1
2	BG.60025.00	SHEAVE, INTERMEDIATE	1
3	BG.20209.00	SPACER, PTO HUB	1
4	BG.60026.00	AXLE, INTERMEDIATE SHEAVE SUBASSEMBLY, 6K	1
5	NB.20.107	NUT ,LUG M12 X 1.5	5
6	NB.20.108	NUT, HEX FLANGE M20-2.5	1



-  = Red Loctite 263
-  = Blue Loctite 242
-  = Green Loctite 609

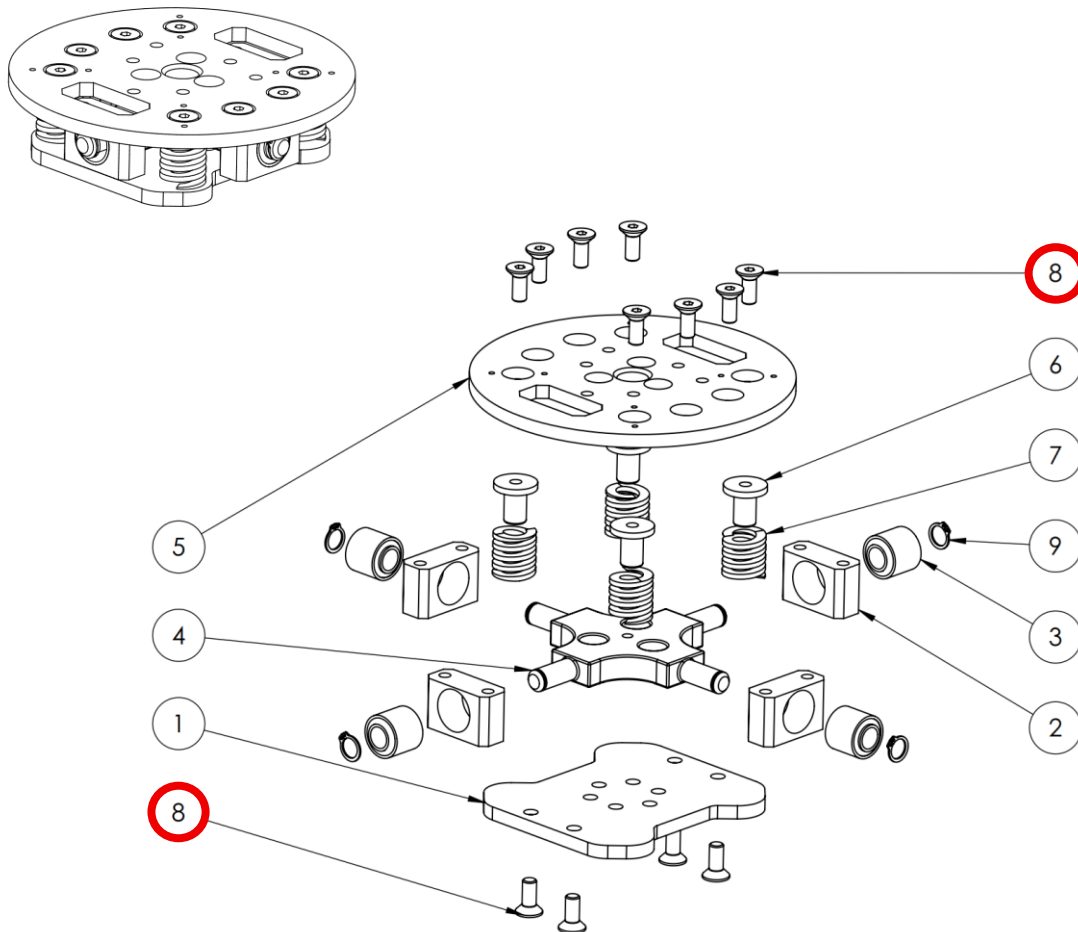
BG.6A001.00 – DRUM SHEAVE SUBASSEMBLY, 6K

Item No.	Part Number	Description	Qty.
1	BG.60030.00	SPINDLE, STATIONARY DRUM SUBASSEMBLY 6K	1
2	BG.60032.50	RETAINER, OUTTER BEARING, DRUM SHEAVE SUBASSEMBLY, 6K	1
3	BG.60033.50	RETAINER, INNER BEARING, DRUM SHEAVE SUBASSEMBLY, 6K	1
4	BG.60035.00	SHEAVE, STATIONARY DRUM SHEAVE SUBASSEMBLY, 6K	1
5	BG.60059.00	INNER BEARING SPACER, DRUM SHEAVE SUBASSEMBLY, 6K	1
6	BG.60060.00	OUTTER BEARING SPACER, DRUM SHEAVE SUBASSEMBLY, 6K	1
7	BG.20224.00	BEARING, 6818-2RU KOY	2
8	NB.12.116	SCREW, SOCKET HEAD CAP M6-1.0 X 20 12.9 ZINC	16



BG.6A010.85 – FLEX HEAD, COMPLETE BLUE SPRINGS /BG6K

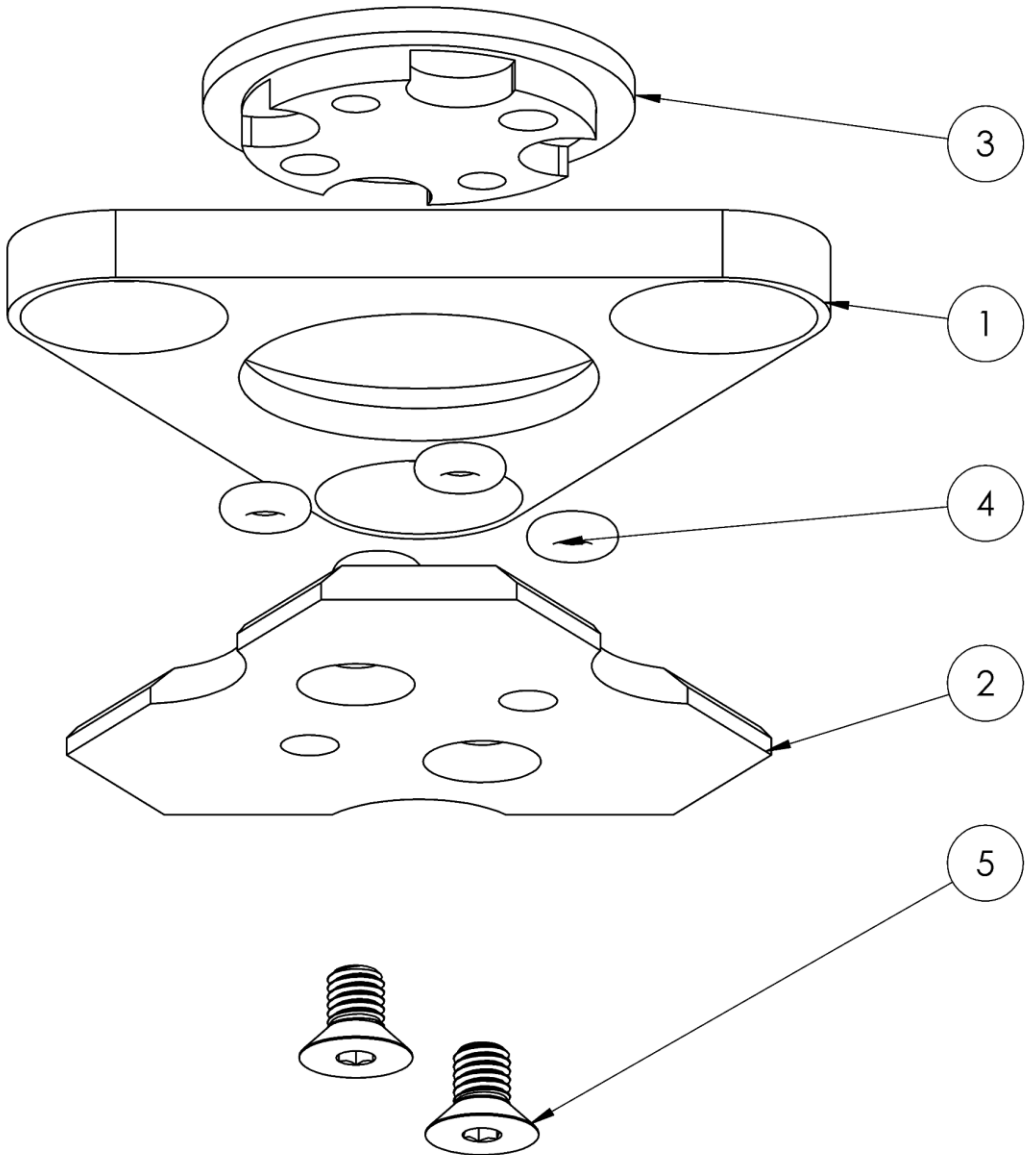
Item No.	Part Number	Description	Qty.
1	BG.20100.50	PLATE, DRIVING /BG6K BG8K BG5K	1
2	BG.20103.00	YOKE, SUSPENSION /BG6K BG8K	4
3	BG.20109.00	BUSHING, YOKE /BG6K BG8K	4
4	BG.20102.01	ELEMENT, CENTER STUDDED	1
5	BG.20101.01	BLANK PLATE, DRIVEN /BG5K BG6K(STEEL)	1
6	BG.20106.25	POST, SPRING /BG6K 8K	4
7	BG.20106.52	SPRING, DIE BLUE MEDIUM /BG6K	4
8	NB.13.218	SCREW, FLAT HEAD SOCKET CAP M8-1.25 X 20	12
9	NB.40.113	RING, EXTERNAL 1/2"	4



-  = Red Loctite 263
-  = Blue Loctite 242
-  = Green Loctite 609

96-0785 - TOOLING TRIANGLE ASSEMBLY – 650 - B

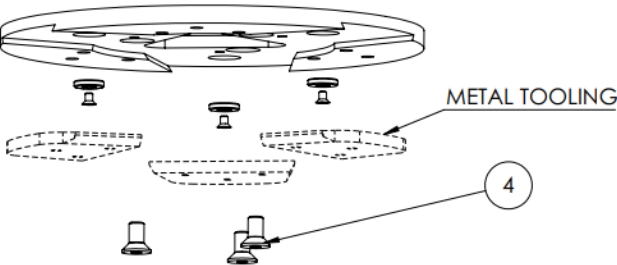
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	51-3340	TOOLING TRIANGLE BASE 650	1
2	51-3341	TRIANGLE HOLDER 650	1
3	51-0110	TRIANGLE HOLDER CENTER ROTATOR	1
4	13-0142	O-RING (.125 ID X .313 OD X 0.94 W)	4
5	12-0581-10	FLAT HEAD - M5X10 -SS	2



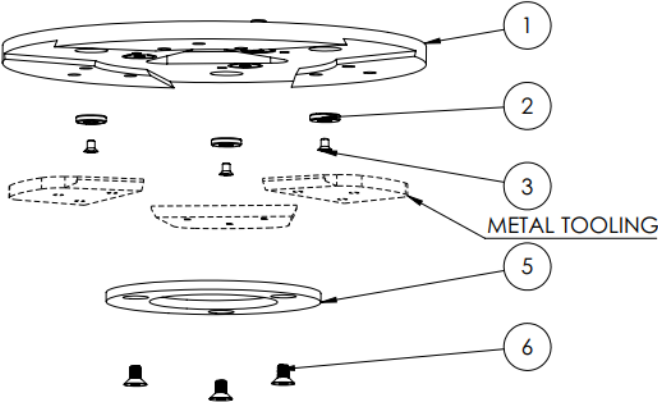
96-0786 - METAL TOOLING KIT – 650 – D

ITEM NO.	PART NUMBER	DESCRIPTION	SLIDE IN QTY.	SLIDE IN WITH RING QTY.	BOLT ON QTY.
1	51-3342	TOOLING PLATE 650	1	1	1
2	13-0650	METAL TOOLING MAGNET	3	3	3
3	12-0481-06	FLAT HEAD PHILLIPS SCREW – M4X6 - SS	3	3	3
4	12-0880-16	FLAT HEAD SOCKET SCREW – M8X16 - ZINC	3	3	3
5	51-3343	METAL TOOLING RING 650		1	
6	12-0680-10	FLAT HEAD SOCKET SCREW – M6X10 - ZINC		3	
7	12-0680-15	FLAT HEAD SOCKET SCREW – M6X15 - ZINC			9

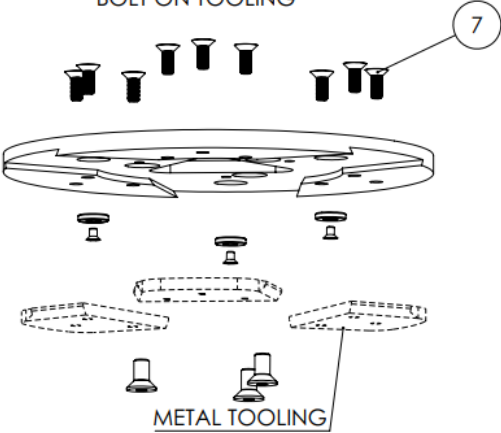
SLIDE IN TOOLING
(WITH LOCKING TRANSPORT SCREWS)



SLIDE IN TOOLING
(WITH LOCKING RING AND TRANSPORT SCREWS)

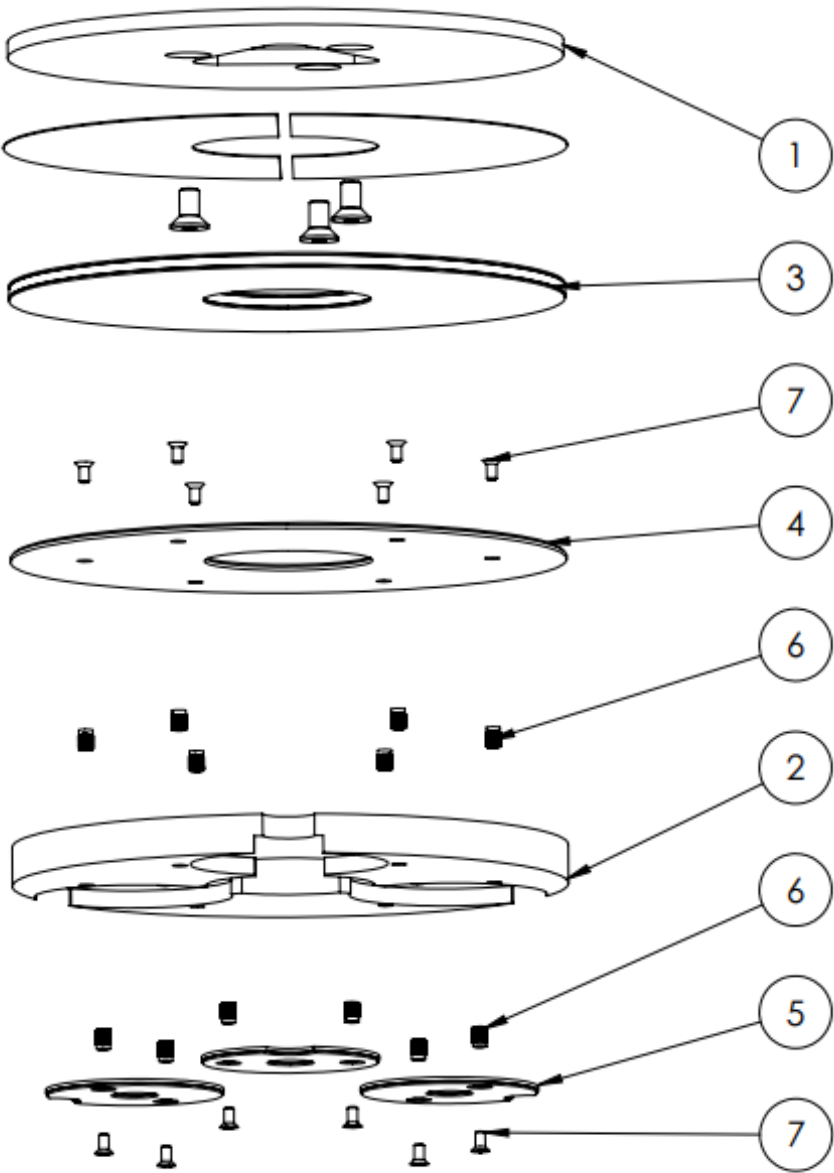


BOLT ON TOOLING



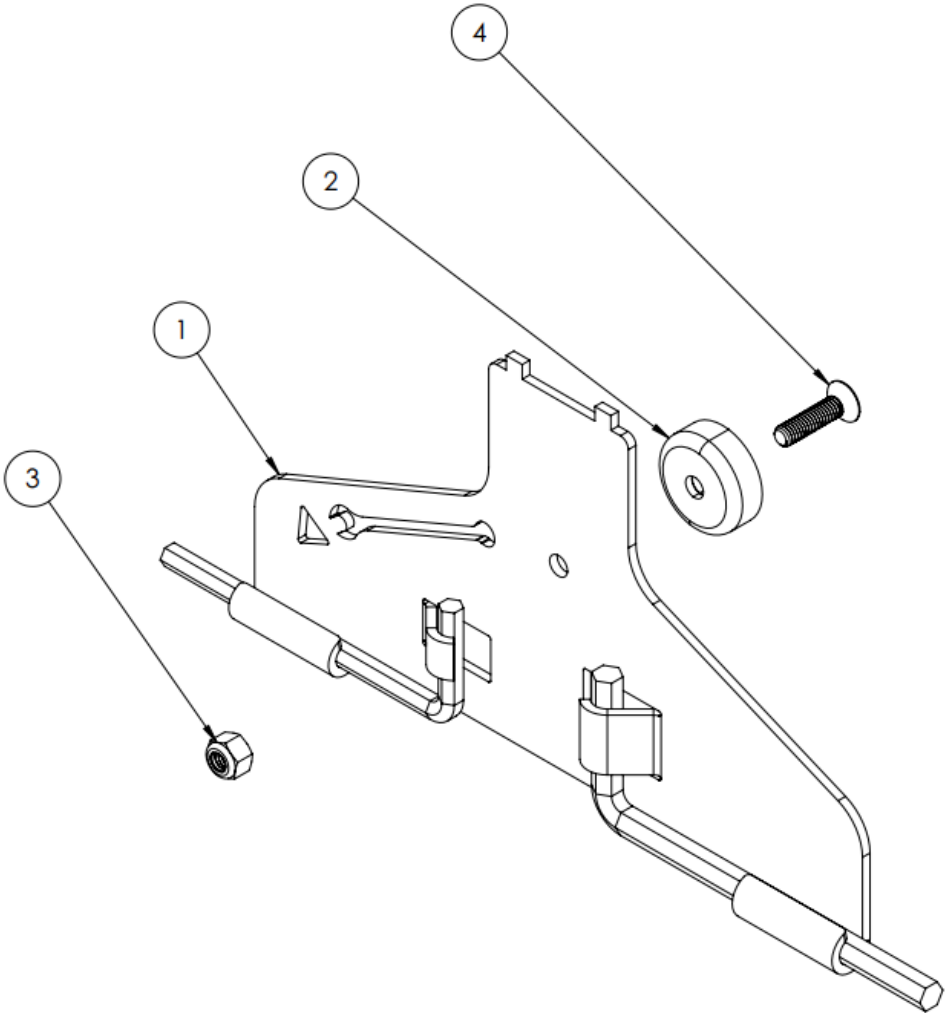
96-0787 RESIN TOOLING PLATE ASSEMBLY 3IN 650 – A

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	51-3344	RESIN TOOLING PLATE 650	1
2	51-3345	RESIN TOOLING HOLDER 650	1
3	13-0651	FOAM RISER ASSEMBLY 650	1
4	13-0652	RESIN TOOLING VELCRO PLATE 650	1
5	13-0653	RESIN TOOLING PLATE VELCRO 3IN	3
6	13-0654	PRESS-IN INSERT - M4 - BRASS	12
7	12-0480-08	FLAT HEAD PHILLIPS SCREW - M4X8 - ZINC	12
8	51-0665	ADHESIVE/VELCRO LOOP HALF 650	2
9	12-0880-16	FLAT HEAD SOCKET SCREW - M8X16 - ZINC	3

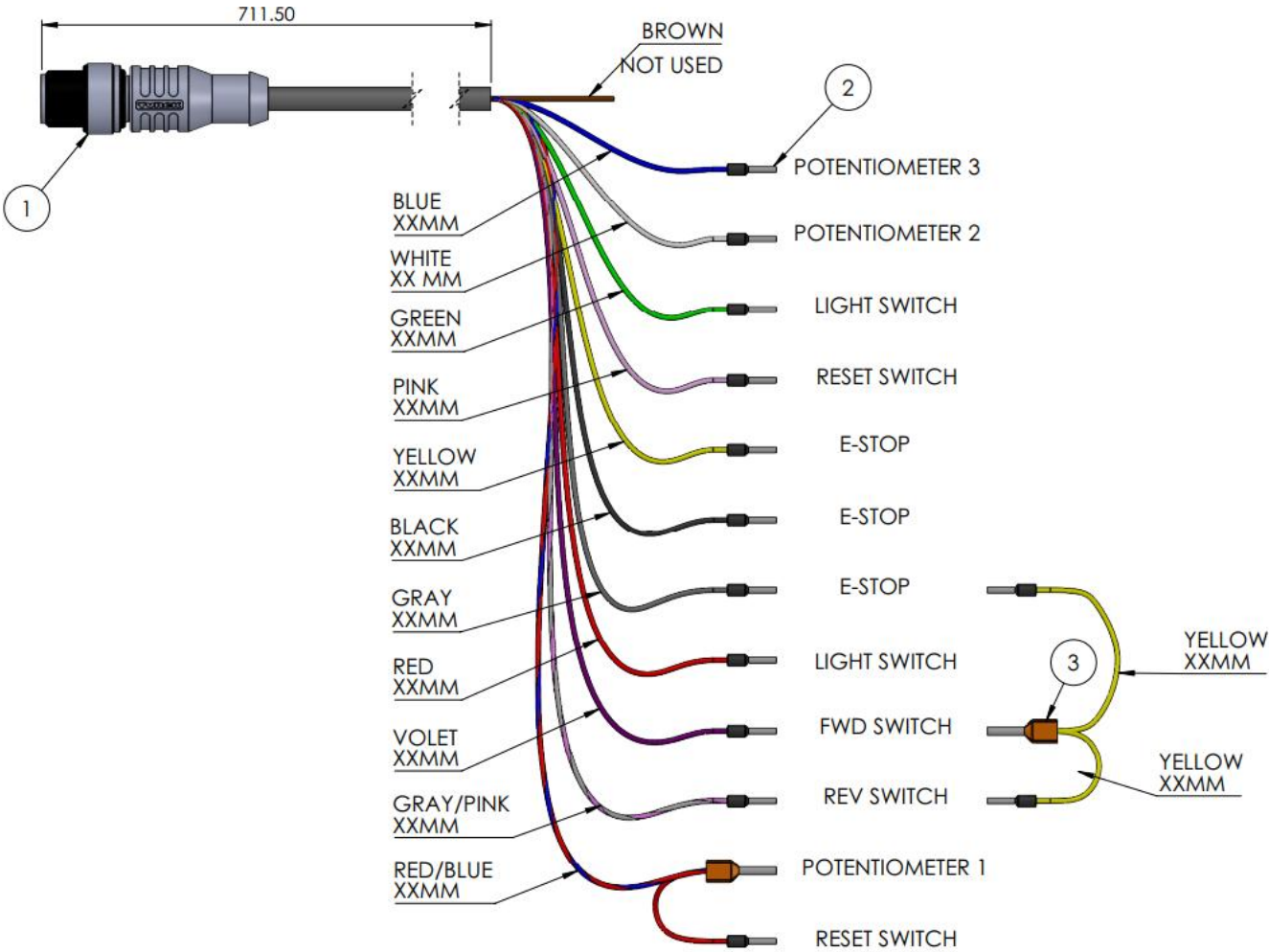


96-0456 – TOOLING WRENCH

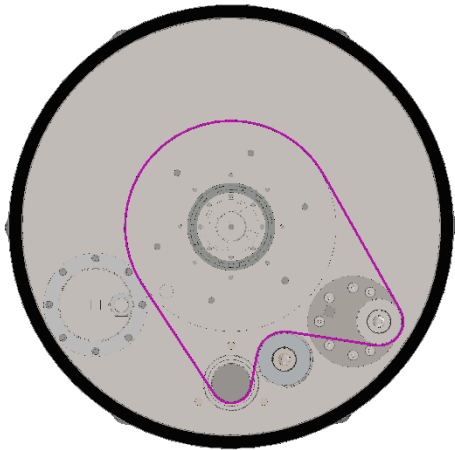
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	52-0628	TOOLING WRENCH FLAT	1
2	13-0115	WRENCH MAGNET	1
3	12-0440	NYLOC NUT – M4 - ZINC	1
4	12-0480-16	FLAT HEAD – M4X16 - ZINC	1



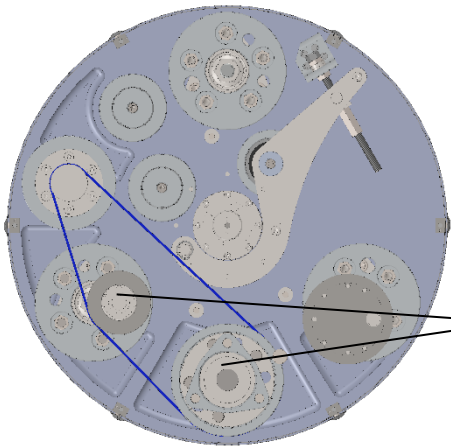
24-0209 – WIRING HARNESS 800E/650E



BELT TENSIONS

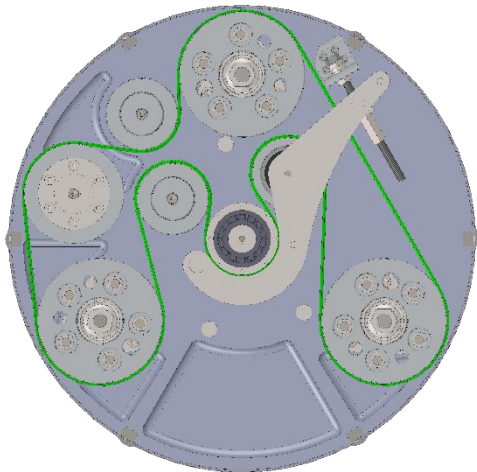


TOP BELT
BG.60058.00
196-212 HZ



PTO BELT
BG.60057.00
101-106 HZ

These sheaves are
located on top
assembly.



MAIN BELT
BG.60056.00
95-100 HZ

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CONTRACTOR PROVEN EQUIPMENT SINCE 1946

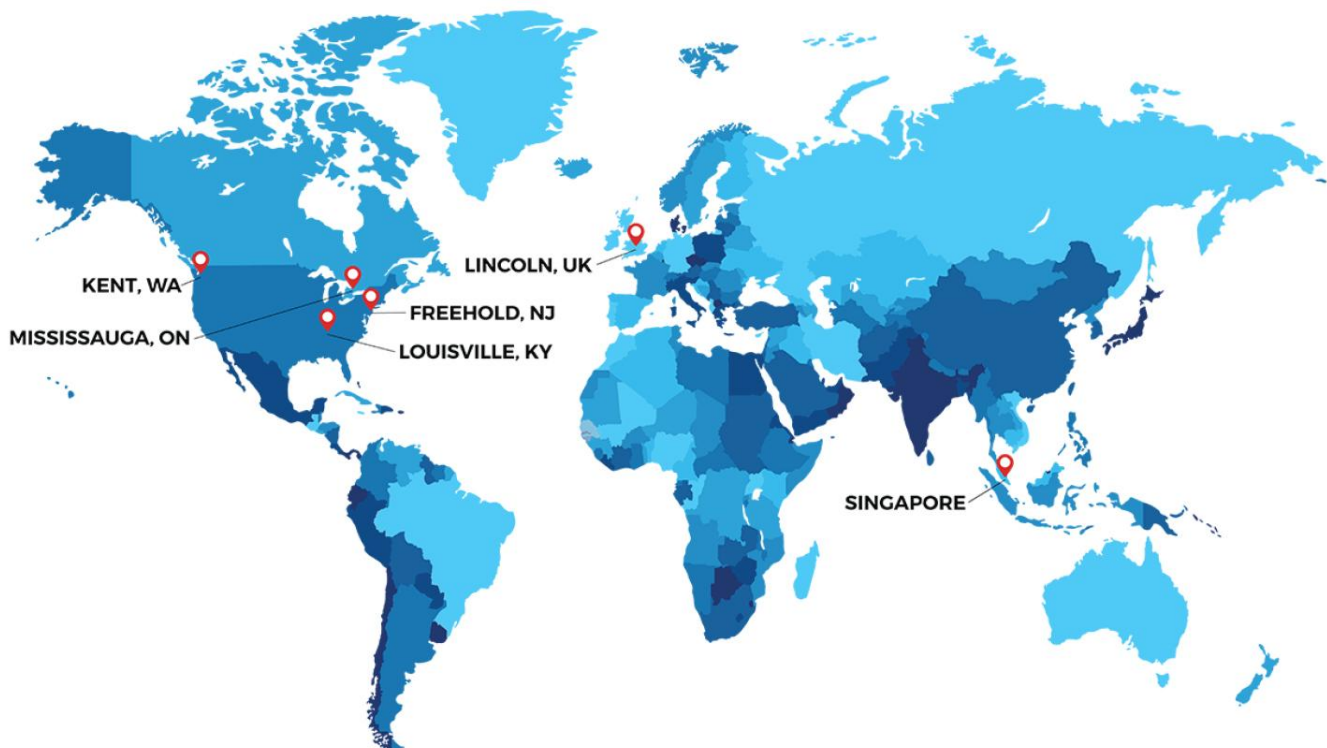


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