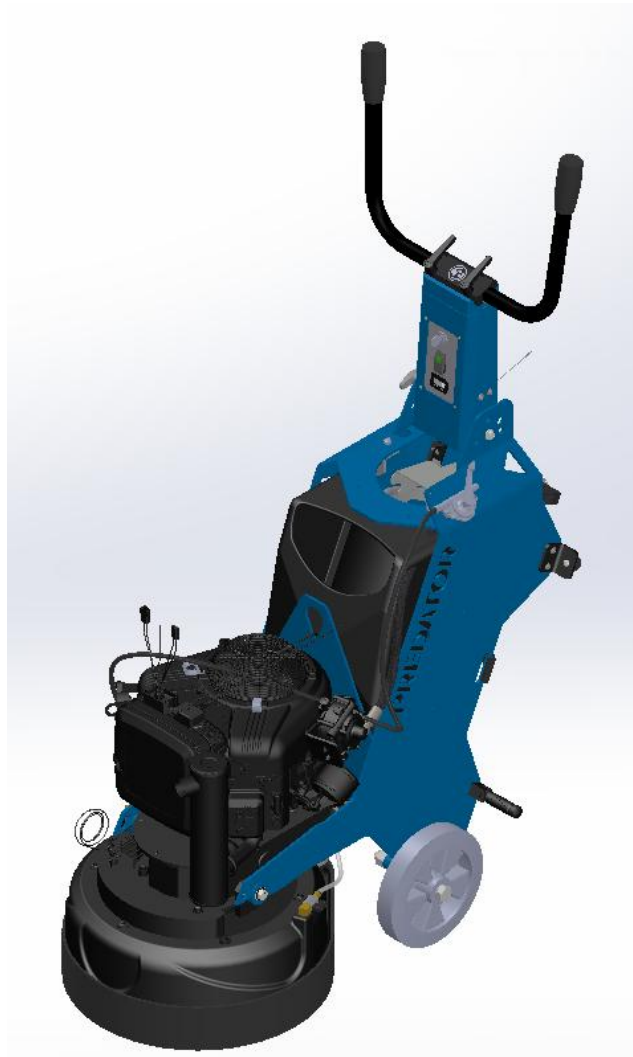


Predator Series Grinder

P500PRO



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**ORIGINAL LANGUAGE OPERATING MANUAL FOR
BARTELL GRINDERS**

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REV.	DATE	DESCRIPTION	APPROVED BY:
A	2/18	Initial Release	SH/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 information and procedures to assist you to operate and maintain the P500PRO floor grinder safely and correctly.

- P500PRO – 500mm Wide, Propane 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 have 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. Proper maintenance procedures will ensure long life and top performance of the unit.

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.
- Fuel the machine only when the engine is stopped, using all necessary safety precautions.
- The engine must always be stopped (Propane models) or electrically disconnected from the source (electric models) 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. Repair fuel leaks immediately. Refer to your engine owner's manual for more safety instructions.

- Be careful not to come in contact with the muffler when the engine is hot, serious burns may result!
- Always maintain control of the machine while it is in operation. Never let go of the machine while drum is rotating.
- When starting the grinder, position throttle in closed position as recommended.
- 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.
- When lifting the grinder, only use the specified connection points. At no time should the machine be lifted without mechanical means such as a hoist or a forklift.
- When securing the grinder for transport, only use indicated tie down points labeled on equipment.
- Disconnect battery before attempting any electrical maintenance.
- 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.

Propane Tank Safety

Using propane tanks to power grinders can be an efficient and reliable energy source. However, it is crucial to follow certain safety guidelines to ensure the proper handling and usage of propane tanks. This operation manual provides essential instructions to promote safe practices when using propane tanks to power grinders.

1. Storage:

- a. Select an appropriate storage area: Choose a well-ventilated, dry, and secure location for storing propane tanks. The storage area should be away from ignition sources, such as open flames, electrical equipment, or direct sunlight.
- b. Position the tanks upright: Always keep the propane tanks in an upright position to prevent any leaks or damage to the valves.
- c. Store tanks at a safe distance: Maintain a minimum of 10 feet distance between propane tanks and any flammable materials or combustible substances.
- d. Secure tanks properly: Ensure propane tanks are properly secured in an upright position, either by using a tank stand, rack, or restraining straps designed for this purpose.
- e. Ensure compliance with local, state, and federal regulations.

2. Tank Handling:

- a. Inspect tanks regularly: Before using a propane tank, conduct visual inspections for signs of damage, such as dents, rust, or oil residue. If any damage is observed, do not use the tank, and arrange for professional inspection or replacement.
- b. Avoid dropping or mishandling tanks: Propane tanks may rupture or leak when dropped or mishandled. Always handle them with care, avoid dropping or banging them against hard surfaces.
- c. Do not overfill tanks: It is vital to fill the propane tanks only up to their designated fill line. Overfilling tanks can lead to gas leakage or even a rupture.
- d. Use protective gloves and goggles: When handling propane tanks, wear protective gloves and safety goggles to protect yourself from any potential leaks or hazards.

3. Connecting and Disconnecting:

- a. Check for leaks: Before connecting a propane tank to a grinder, perform a leak check using a solution of soapy water. Apply the solution to all connections and observe for bubbles that indicate a leak. If a leak is detected, refrain from using the tank and tighten the connections or seek professional assistance.
- b. Follow proper connection procedures: When connecting the propane tank to the grinder, ensure that the hose and fittings are compatible with the tank and grinder. Follow the manufacturer's instructions for proper connection and secure all fittings tightly.
- c. Turn off the grinder and disconnect: Before disconnecting the propane tank from the grinder, turn off the grinder and close the valve on the tank. Allow any residual gas pressure to dissipate before disconnecting the hose.

4. Operating Precautions:

- a. Use grinders in well-ventilated areas: When operating grinders powered by propane tanks, ensure that the area is adequately ventilated to prevent the accumulation of propane gas. Carbon monoxide detectors should also be installed in enclosed spaces to monitor gas levels.
- b. Keep tanks away from heat sources: Avoid exposing propane tanks to excessive heat or direct sources of flame, as this can cause the tank to overheat or potentially explode.
- c. Store and transport tanks upright: Always store and transport propane tanks in an upright position, either secured in a vehicle or using appropriate storage measures.
- d. Never tamper with valves: Do not attempt to repair or modify any components of the propane tank or its valves. Only trained professionals should handle repairs or maintenance.

5. Additional Notes:

- a. The cylinder used is classified as a DOT 4E240 cylinder. The service pressure the cylinder is designed for is at 20 PSI. The cylinder has a pressure relief if it reaches an excess of 300 PSI. If the tank is overfilled, this pressure relief will become active once the tank comes up to room temperature.
 - i. Pressure relief is highly flammable!
 - ii. Never store the propane tank on the grinder.
 - iii. Follow local and national regulation when using, storing and filling propane.
- b. In the case of pressure relief catching fire, it is necessary to cool the cylinder. Use non-flammable cooling liquid, or a fire extinguisher, to lower the temperature of the cylinder. The flow of gas should stop, when the cylinder is cooled. Shutting off

the flow of gas should extinguish the fire the gas was fueling. Propane cylinders are above the capacity for storage in a place frequented by the public. So, storage on site at a grocery store would be against national fire safety code. NFPA 58 chapters 5 and 8

- c. All propane grinders include a sensor to test the air around the machine to limit exposure to toxic levels of emissions. Without proper ventilation, this sensor will shut down the machine after 30 seconds of use.

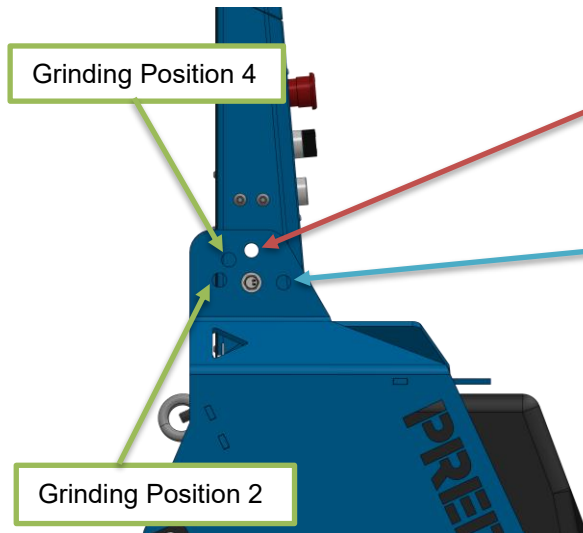
Conclusion:

Following these safety guidelines will help maintain a secure working environment when using propane tanks to power machines. Remember, safety should always be a top priority. If you have any questions or concerns, consult the manufacturer's guidelines or seek professional assistance.

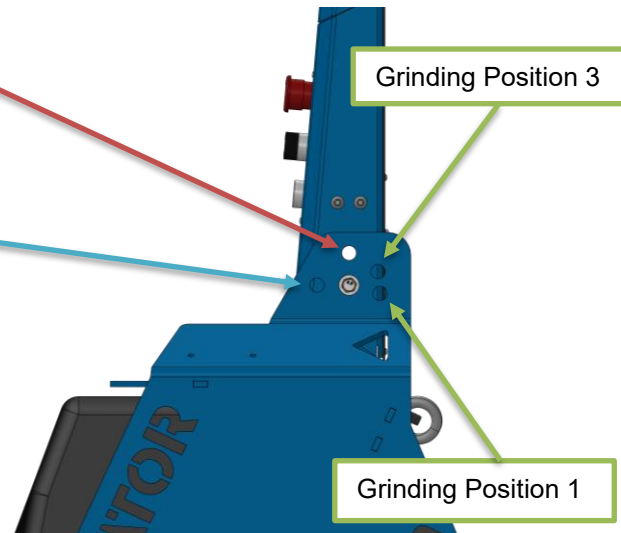
Transportation

Grinder Handle Position Reference

Right Side View

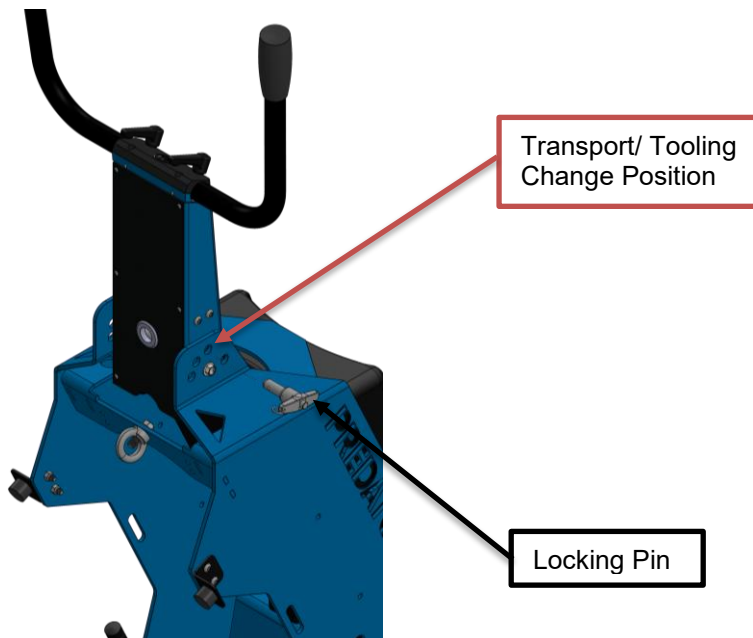


Left Side View

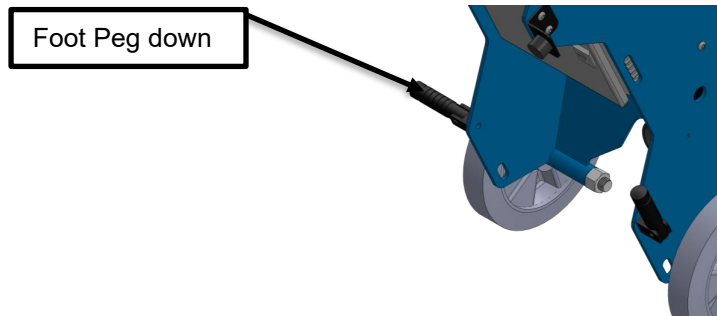


Transporting grinder

1. Rotate handle to the "Transport/ Tooling Change Position" and insert locking pin into either the left or right-side panel holes.



2. Flip down either left or right-side Foot Peg



3. Placing one foot on the Foot Peg, pull on the handle.



4. Hold machine in a balanced and comfortable position push or pull to desired location.



Note: When grinding near walls be sure to flip the Foot Peg back into the upward position.

Lifting grinder with a hoist

1. Grinder should be in grinding position.
2. Rotate Handle in the "Forward/ Hauling Position".

Forward/
Hauling Position



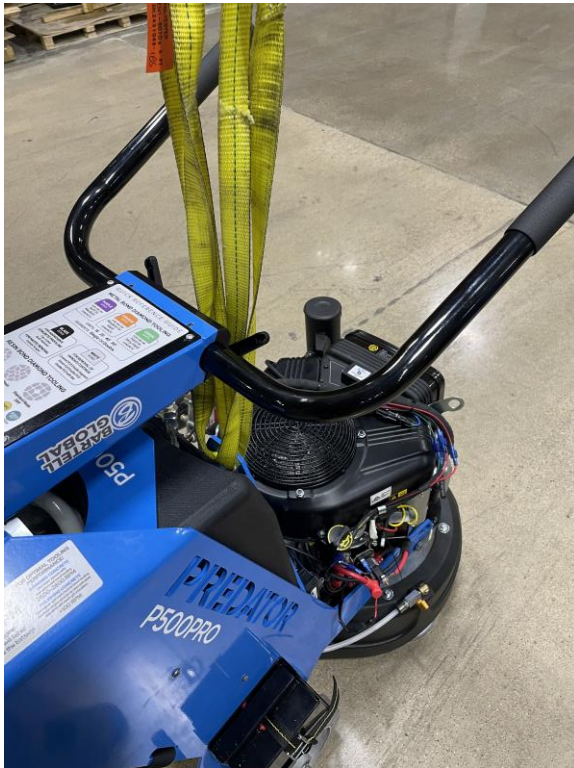
3. Locate marked single Lifting point behind motor/engine.
 - a. Do not use any other points of lifting.



Lifting point

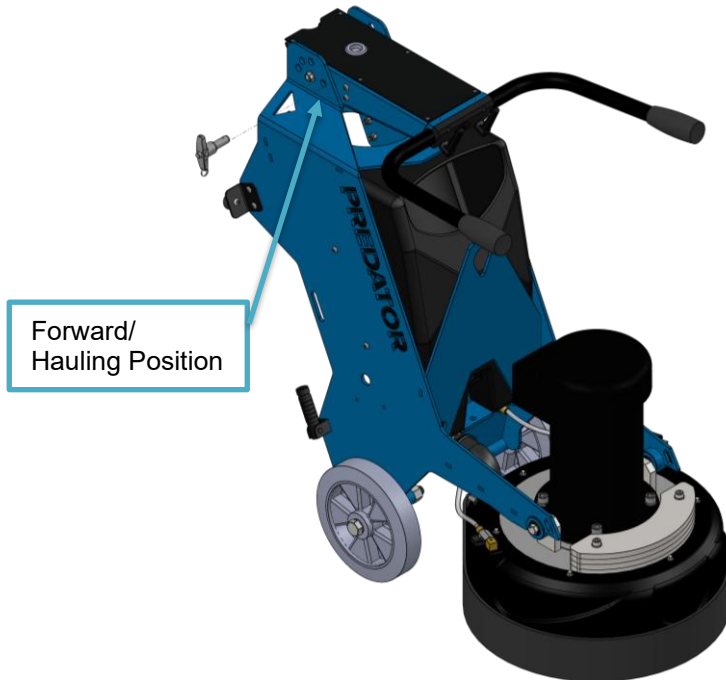


4. Only use OSHA/non-damaged certified lifting equipment

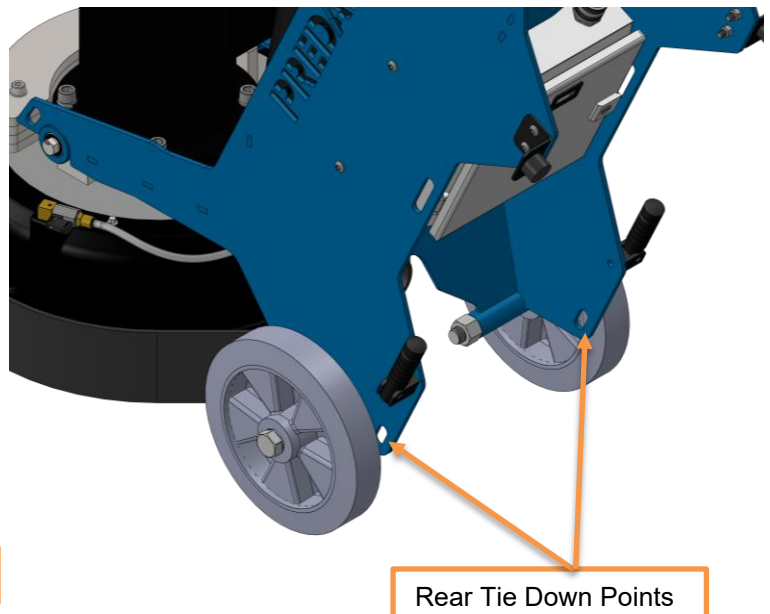
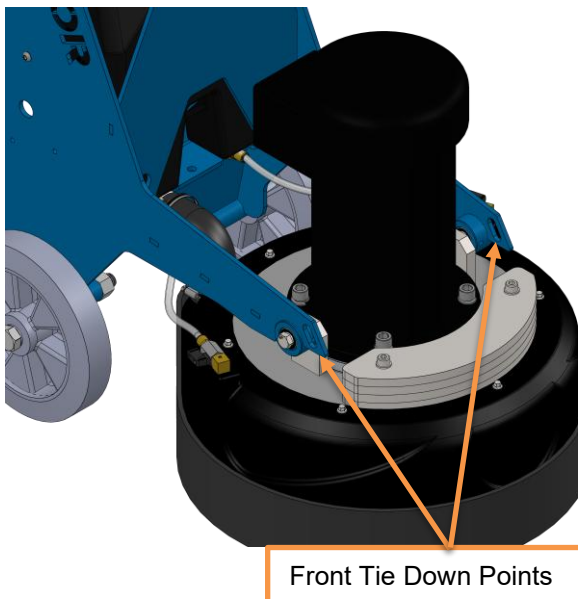


To secure machine for Hauling

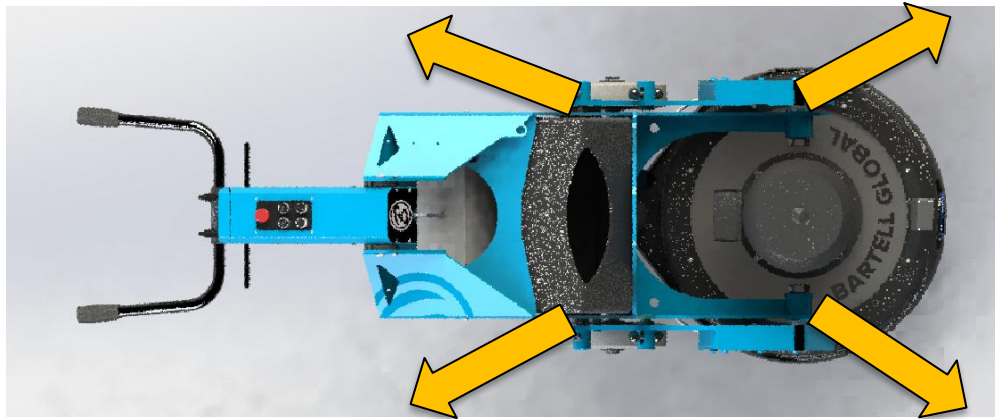
1. Grinder should be in grinding position.
2. Rotate Handle in the "Forward/ Hauling Position".



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



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

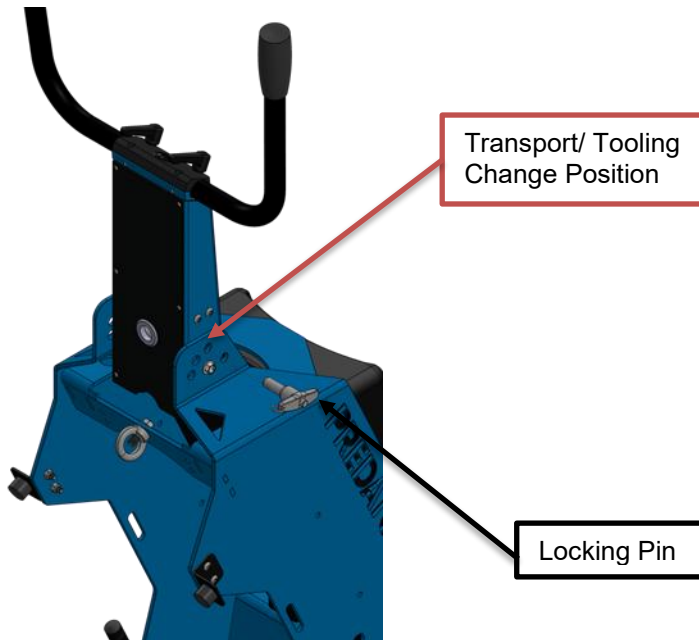


Tooling Installation

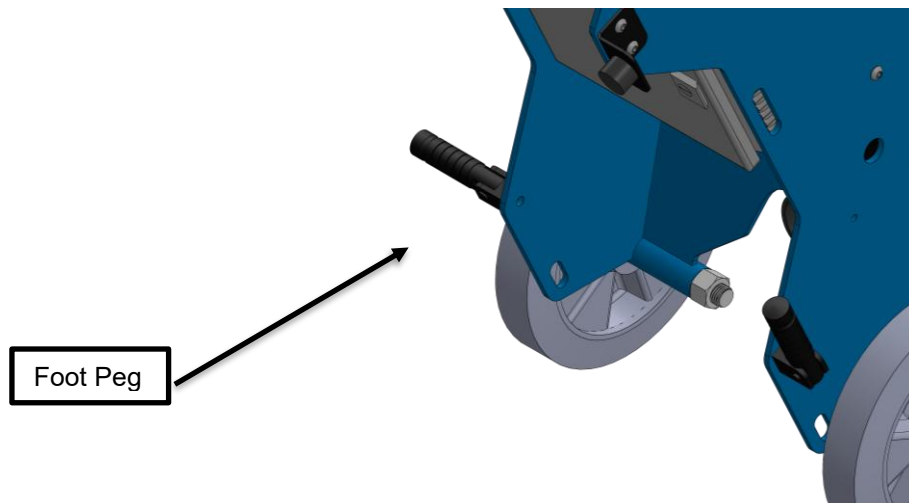
The Predator Series Grinders come equipped with quick change tooling system. This allows operators to quickly change grits or types of diamond tooling.

To install/change tooling plates on machine.

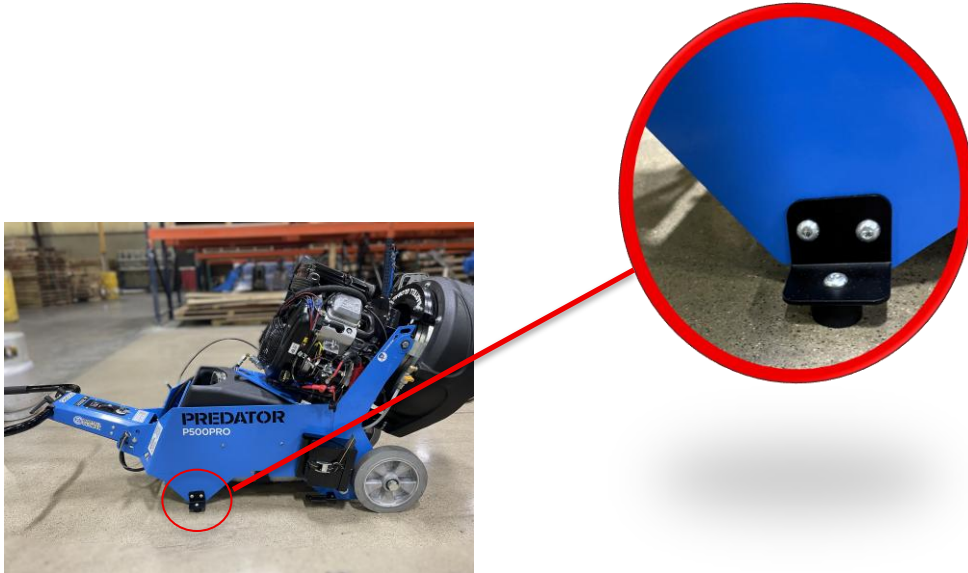
1. Rotate handle to the “Transport/ Tooling Change Position” and insert locking pin into either the left or right-side panel holes.



2. Flip down either left or right-side Foot Peg



3. Lay completely down such that the Bumper stops contact the 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



Propane Tank Use

The Predator Series Propane grinders come equipped with a quick-change propane tank system to get you running quicker.

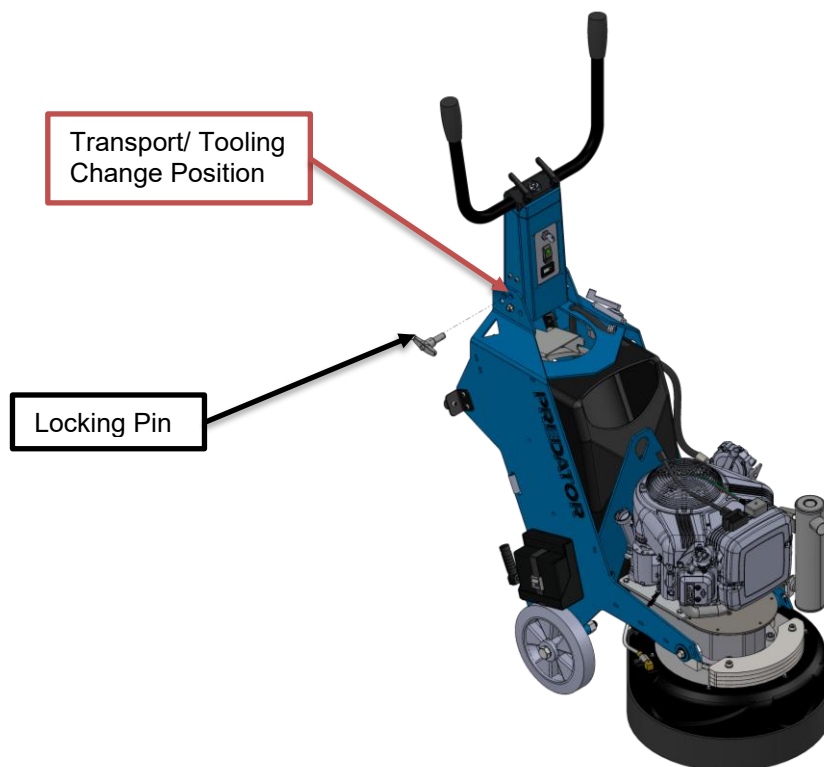
Before operating a propane grinder, read and understand the propane safety check list in this manual.

The predator series propane grinders only run on vapor style tanks. Attempt to run a liquid style tank will result in damage to the regulator and engine.

Always confirm the propane tank is not overfilled before bringing it inside a building or installing to the grinder.

To Install a Propane Tank

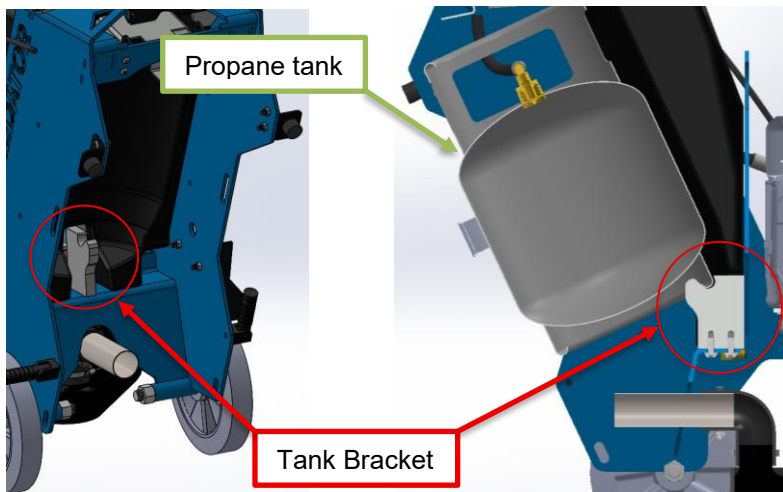
1. Rotate handle to the "Transport/ Tooling Change Position" and insert locking pin into either the left or right-side panel holes.



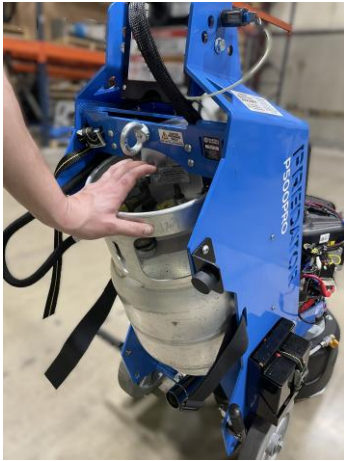
2. While propane tank is sitting on the ground, connect the Propane Hose. It is easier to connect the hose outside of the machine than when its installed but this can be done once the tank is latched in.



3. Place lower portion of propane tank onto the Tank Bracket



4. Rotate the top of propane tank toward machine until quick release handle catches top of propane tank.



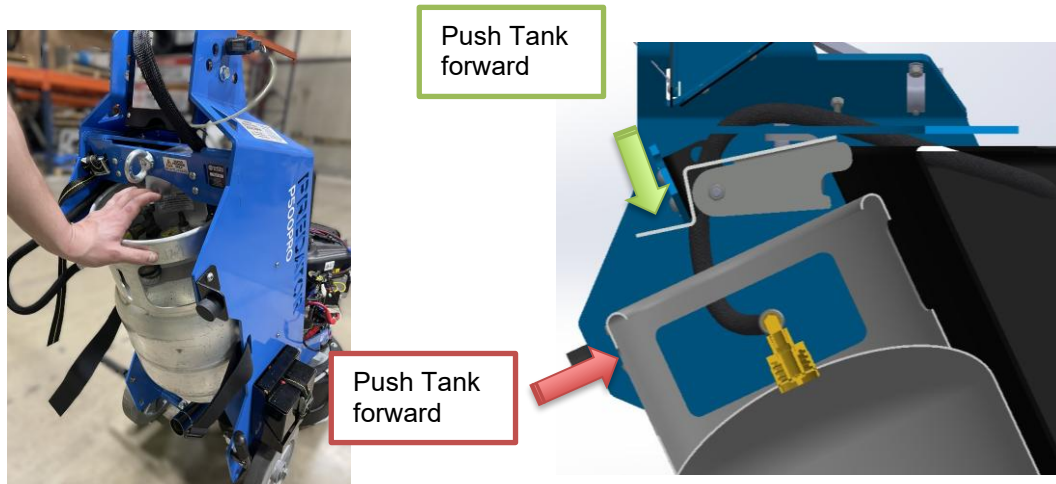
5. Install optional safety strap behind propane tank.
 - a. This strap can also be used if the tank is not of standard size.



6. Confirm a tight connection on propane hose to tank.
7. Fully Open valve on propane tank.

To Remove Propane Tank

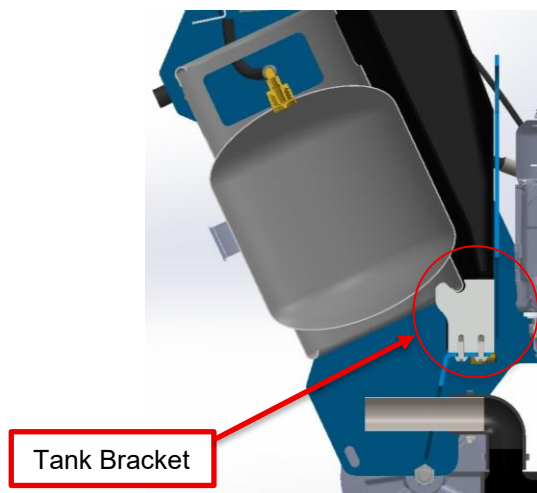
1. Confirm Grinder is in grinding position with handle raised to vertical position.
2. Fully Close valve on propane tank
3. Place the palm of the hand on the outer rim of the propane tank and place fingers on the Tank Latch. Simultaneously push the tank forward slightly and press down on the Tank Latch.



4. Release the latch and rotate the tank down to clear of the latch.



5. Lift tank off the Tank Bracket.



6. Place tank on the floor and disconnect propane hose.



**** Follow all Propane handling safety guidelines.****

OPERATING INSTRUCTIONS

STARTING PROCEDURES - WARM TEMPERATURES

- a) Prior to starting the grinder, check the engine oil levels. (Propane only) Be sure the fuel tank is full. Fuel is not shipped with the unit. **WARRANTY IS VOID IF RUN WITHOUT OIL.**

****Fill tank with safety approved fuel containers. DO NOT MIX OIL WITH FUEL.****

- b) Confirm PTO switch is in off position.
- c) Confirm throttle is in closed position.
- d) Maintain contact with the safety switch. Engine will disengage and stop if safety switch is released. Do not tape, tie-down, or otherwise attempt to bypass safety device.
- e) Turn ignition key all the way. Allow engine to warm up before proceeding to full speed operation.
- f) Engage PTO below 2000rpms.

STARTING PROCEDURES - COLD TEMPERATURES

Follow same procedure as above but allow for a longer warm up period of 3-5 min. (In cold weather, oil is much heavier to move. Extra time is required to heat the oil.)

STOPPING PROCEDURE

- a) Bring throttle to low idle (below 2000 RPM) and wait a few seconds.
- b) Disengage PTO
- c) Turn off ignition key.

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			○	○	○	○
	Recharge			○	○	○	○
	Replace						2 yrs
Guards	Check	○	○	○	○	○	○
Warning Stickers	Check		○	○	○	○	○
Test Run	Check Operation		○	○	○	○	○
Controls							
Safety switch operation	Check	○	○	○	○	○	○
Throttle (Propane Only)	Check	○	○	○	○	○	○
Engine (Propane Models Only)							
Fuel Lines & Clamps	Check		○	○	○	○	○
	Replace						2 yrs
Engine oil	Check level	○	○	○	○	○	○
	Change		○		○		○
Engine oil filter	Replace				○		○
Oil Cooler	Clean			○	○	○	○
Cooling fins	Clean		○	○	○	○	○
Air Cleaner	Check-clean	○	○	○	○	○	○
	Replace						○
Air Intake Line	Check				○		
	Replace						2 yrs
Valve Clearance	Check-adjust				○		○
Fuel Filter	Check and clean			○	○	○	○
	Replace				○		
Fuel Tank	Clean						500 hrs
Fuel Injection Nozzles	Check pressure						500 hrs
Fuel Injection Timer	Check						500 hrs
Injection Pump	Check						500 hrs
Engine Wiring	Check						○
Coolant	Check	○					
	Change						○

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		○	○	○	○	○
Universal Couplings	Lubricate			○	○	○	○
Belt Tension/ Condition	Check	○	○	○	○	○	○
Clutch/ Pulley Operation	Check	○	○	○	○	○	○

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.
- **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.

MAINTENANCE FOR PROPANE POWERED GRINDERS

- **Check the propane tank:** Ensure that the propane tank is securely fastened and in good condition. Check for any leaks or damage to the tank.
- **Inspect fuel lines and connections:** Inspect the fuel lines and connections for any signs of wear, cracks, or leaks. Tighten any loose connections and replace any damaged fuel lines.
- **Clean the air filter:** Regularly clean or replace the air filter to prevent dirt and debris from clogging the engine. A clogged air filter can lead to decreased engine performance.
- **Check the spark plug:** Inspect the spark plug for any buildup or damage. Clean or replace the spark plug as needed. A clean spark plug ensures proper ignition and efficient combustion.

- **Change the engine oil:** Regularly change the engine oil to maintain optimal engine performance. Follow the manufacturer's recommendations for the correct oil type and interval for oil changes.
- **Check and adjust the throttle and idle speed:** Inspect the throttle and idle speed settings and adjust them according to the manufacturer's recommendations. Proper throttle and idle settings help maintain efficient and smooth engine performance.
- **Inspect the exhaust system:** Check the exhaust system for any leaks, damage, or clogs. A properly functioning exhaust system is essential for safe operation and optimal engine performance.
- **Clean the engine exterior:** Regularly clean the exterior of the engine to remove dirt, debris, and any flammable materials. A clean engine is less likely to overheat and will last longer.

TROUBLESHOOTING

800PRO, 650PRO, and 500PRO

WON'T START

- Throttle fully open
- Hand lever wire broken
- Propane Tank overfilled
- Propane Tank Empty
- Propane Tank is not Vapor Style
- Propane Tank valve turned off
- Electrical Source is not working
- Gas filter plugged
- Gas line plugged
- Hole in gas line
- Safety Switch is engaged
- Safety switch wire or connectors not making good contact

STARTS BUT NO HIGH SPEED

- Engine problems
- Throttle cable broken or seized
- Throttle lever and connectors loose or out of adjustment
- Other engine problems (Refer to engine manual)

BELT WEARING RAPIDLY

- Belt adjusted improperly
- Pulley out of alignment
- Wrong belt/defective belt
- Clutch sticking
- Belt rubbing

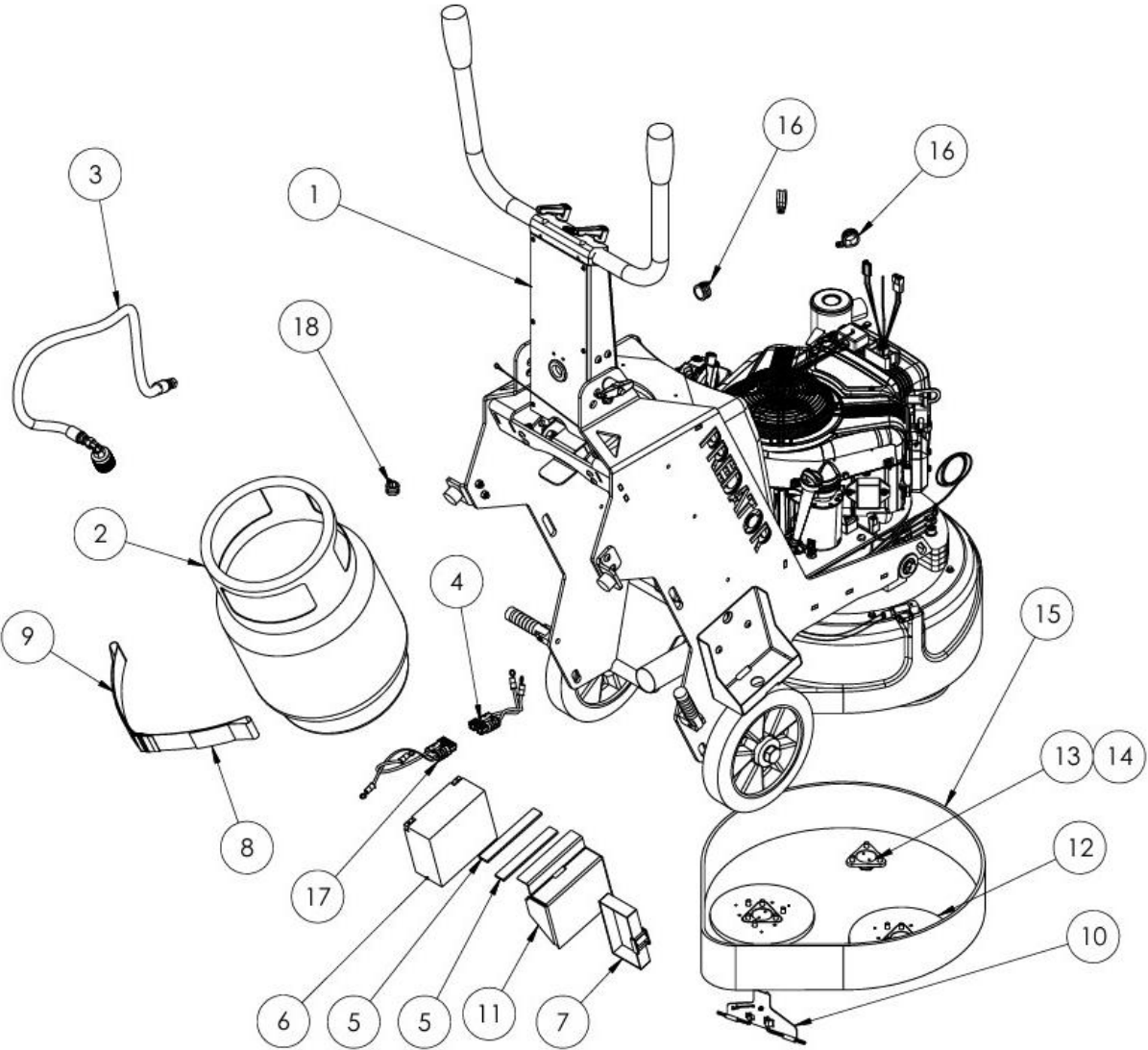
DRIVE SHAFT WILL NOT TURN

- Universal joint(s) seized
- Spline stripped
- Key(s) sheared

PARTS

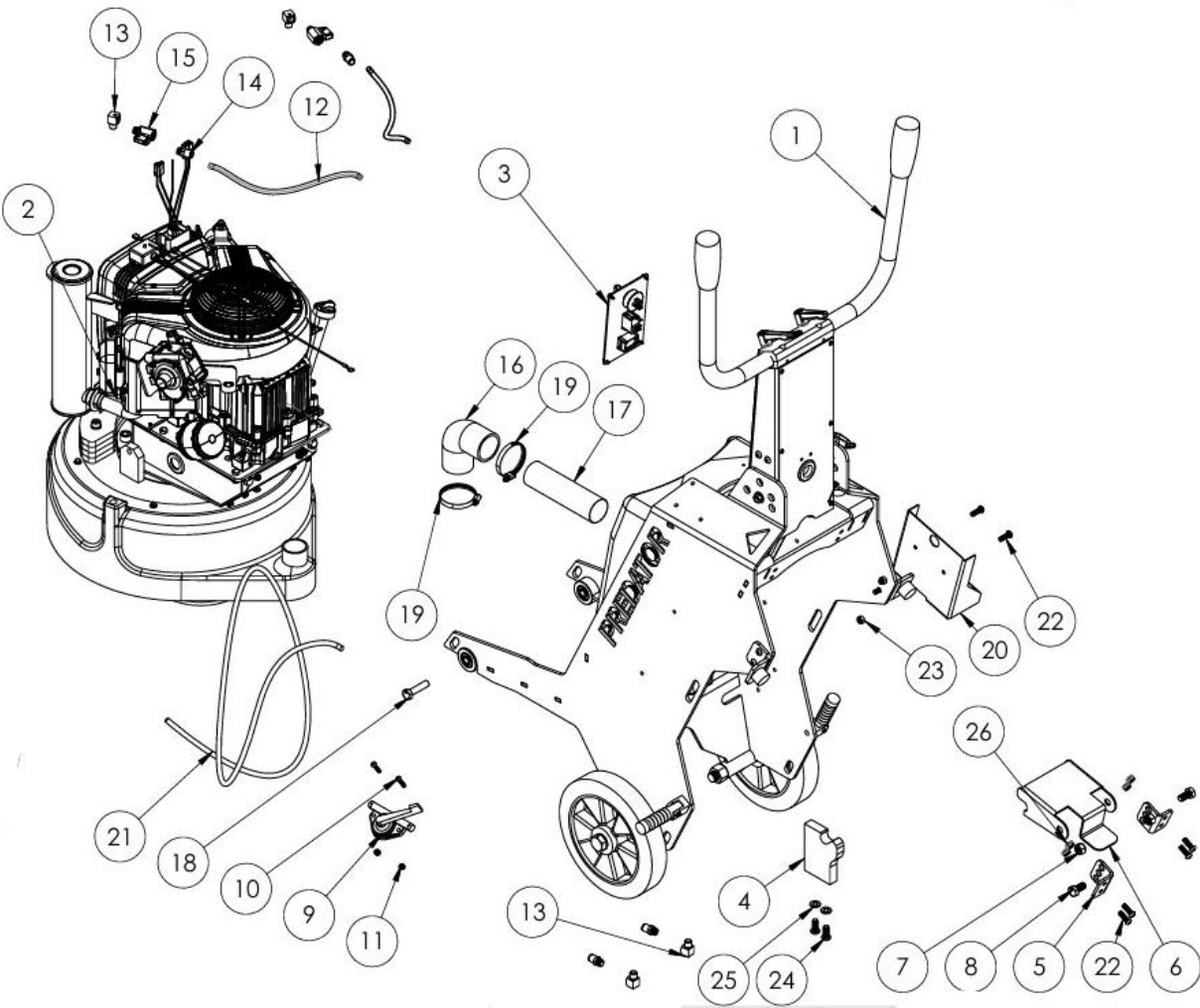
98-0061 - PREDATOR P500PRO GRINDER - C

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	96-0775	PREDATOR 500 PRO GRINDER ASSEMBLY	1
2	44-0060	PROPANE TANK VAPOR - 650	1
3	43-0479 HOSE	PROPANE HOSE ASSEMBLY 500PRO	1
4	24-0309	BATTERY CABLE ENGINE SIDE 650PRO & 800PRO	1
5	13-3328	BATTERY COVER FOAM	2
6	23-0237	12V BATTERY 500 PRO	1
7	13-0618	BATTERY STRAP 1"X24"	2
8	13-3327	PROPANE TANK STRAP RING+ VELCRO	1
9	13-3326	PROPANE TANK STRAP 2X VELCRO	1
10	96-0456	TOOLING WRENCH	1
11	52-0636	BATTERY BOX COVER	1
12	96-0816	METAL TOOLING KIT 500	3
13	96-0785	TOOLING TRIANGLE ASSEMBLY 650	3
14	12-0880-16	FLAT HEAD SOCKET SCREW - M8X16 - ZINC	9
15	13-0678	DUST COVER 500	1
16	13-0285-07	Rubber Cushioned Loop Clamp, 7/8"ID	3
17	24-0332	BATTERY CABLE 500 PRO	1
18	13-0285-05	Rubber Cushioned Loop Clamp, 5/8"ID, Zinc plated Steel, EPDM Cushion	1
19	61-0081	PREDATOR 500PRO DECAL KIT (NOT SHOWN)	1



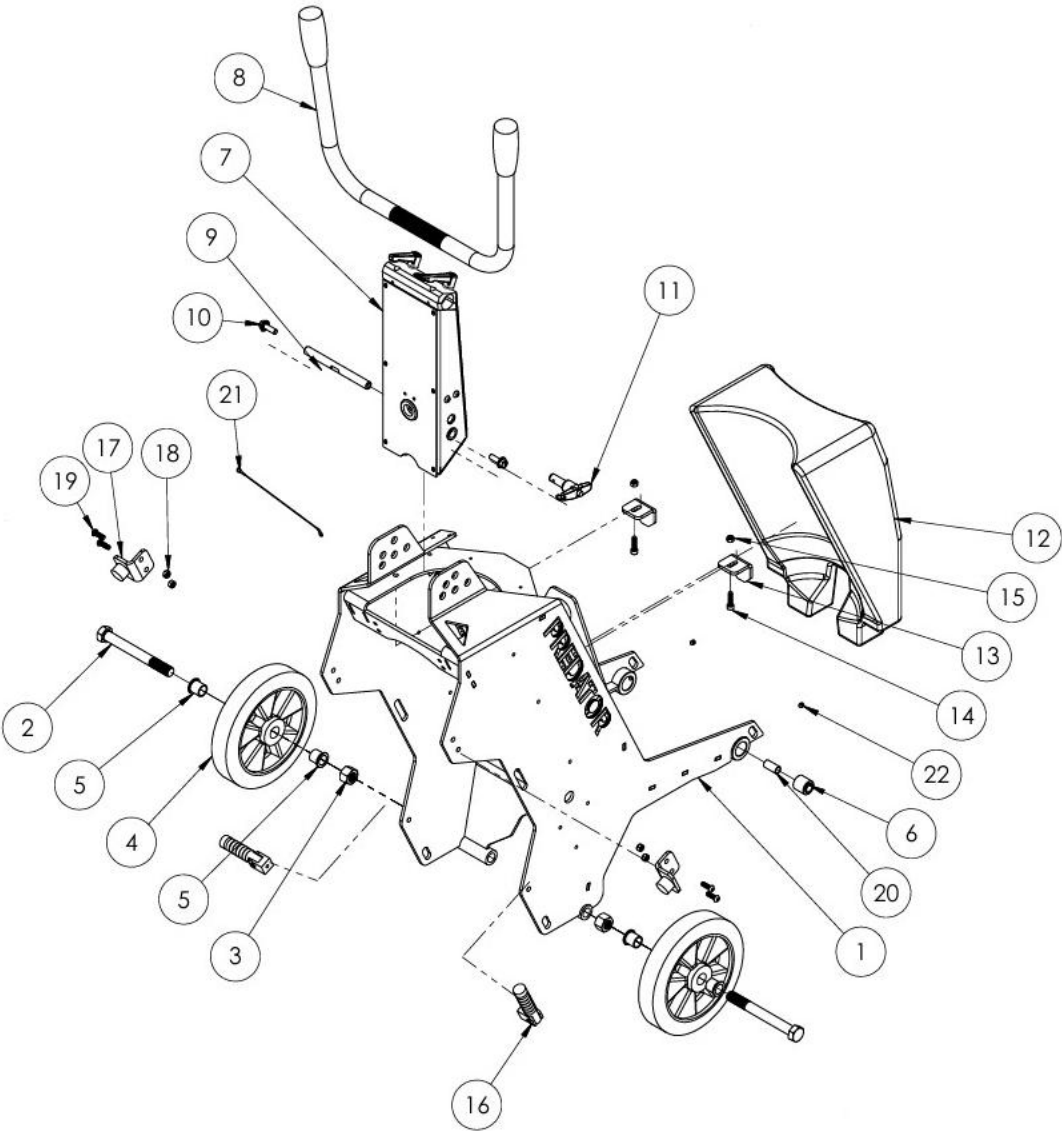
96-0775 - PREDATOR P500PRO GRINDER ASSEMBLY - B

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	96-0774	FRAME ASSEMBLY 500	1
2	96-0773	DRUM ASSEMBLY - 500 PRO	1
3	96-0770	SWITCH PANEL - 500PRO	1
4	51-3502	PROPANE SUPPORT PLATE - 500 PRO	1
5	52-0360	PROPANE TANK LATCH MOUNT - 650	2
6	52-0634	TANK LATCH 500 PRO	1
7	12-1240	LOCKNUT - M12 - ZINC	2
8	12-1220-25	HEX HEAD CAP SCREW - M12X50 - ZINC	2
9	43-0405	THROTTLE HANDLE 650 AND 800PRO	1
10	12-0610-30	BUTTON HEAD CAP SCREW - M6X30 - ZINC	2
11	12-0640	NYLOC NUT - M6 - ZINC	2
12	41-0053	WATER TUBE CLEAR 0.38 OD	2
13	41-0057	FITTING 0.25 NPT MALE TO 0.25 NPT FEMALE 90 BRASS	4
14	41-0052	Push-to-Connect 0.25 NPT 0.38 TUBE	4
15	41-0051	BALL VALVE MALE 0.25 NPT FEMALE 0.25 NPT	2
16	13-0617	SHROUD TO VAC ELBOW 3IN	1
17	VAC.WCN2.020	CONNECTOR, HOSE COUPLER	1
18	12-1220-50	HEX HEAD CAP SCREW - M12X50 - ZINC	2
19	13-0819	HOSE CLAMP 2 IN SMOOTH	2
20	52-0635	BATTERY BOX 500 PRO	1
21	43-0406	THROTTLE CABLE 500	1
22	12-0810-25	BUTTON HEAD CAP SCREW - M8X25 - ZINC	6
23	12-0840	LOCKNUT - M8 - ZINC	2
24	12-1010-25	BUTTON HEAD CAP SCREW - M10X25 - ZINC	2
25	12-1050	WASHER, FLAT M10 ZINC	2
26	12-0021-08	LOCKNUT - M8 - ZINC	4



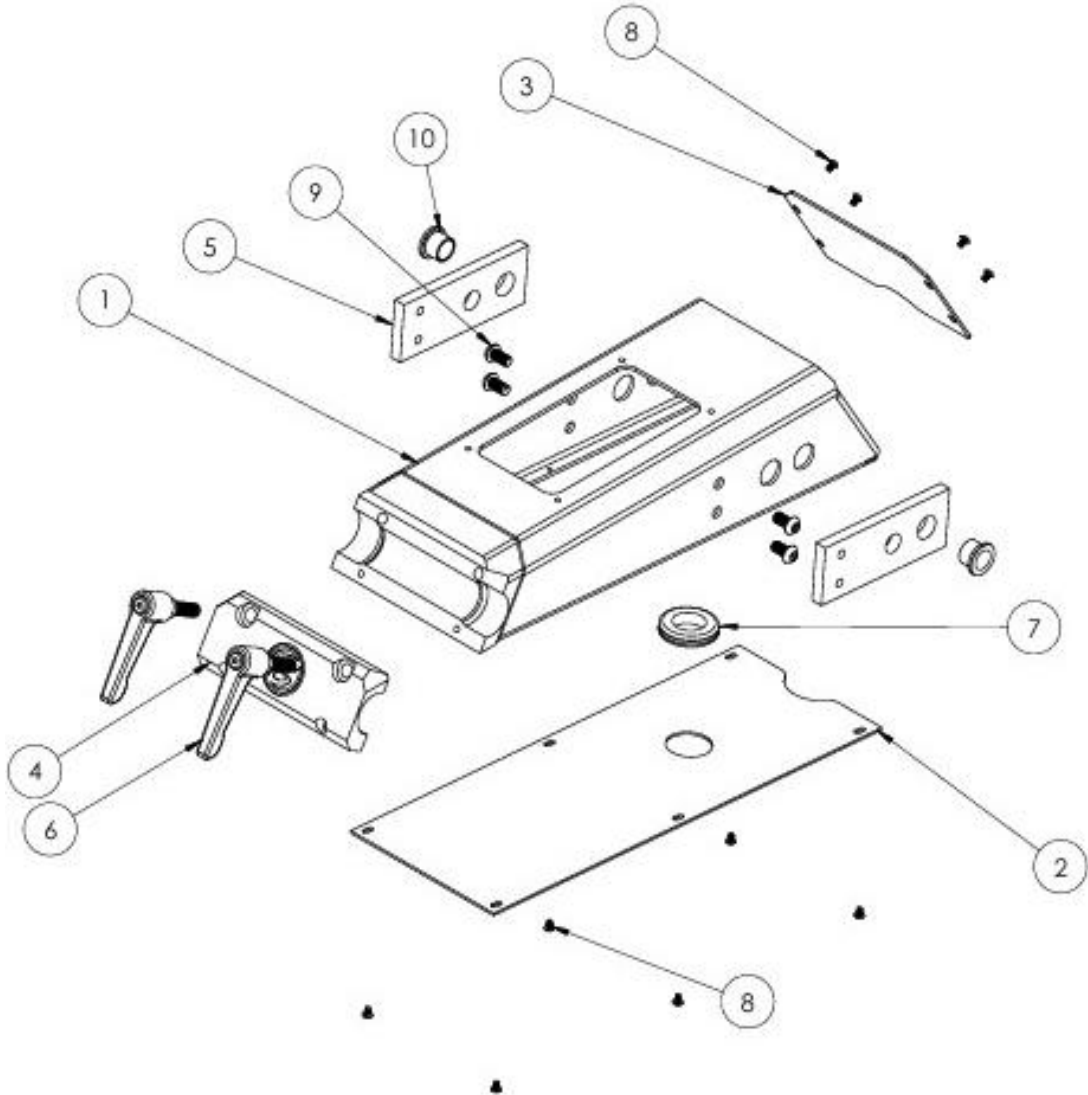
96-0774 - FRAME ASSEMBLY – 500 - C

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	53-0800	FRAME WELDMENT - 500	1
2	12-2020-180	HEX HEAD SCREW - M20X180 - ZINC	2
3	12-2440	LOCKNUT - M20 - ZINC	2
4	13-0670	WHEEL 10IN - 650	2
5	51-3378	AXLE BUSHING - 650	4
6	13-0806	BUSHING	2
7	96-0726	HANDLE ASSEMBLY	1
8	96-0720	BG HANDLE	1
9	51-3501	HANDLE PIVOT PIN	1
10	12-1060-30	SCREW, FLANGED HEX HEAD CAP SERRATED M10-1.5 X 30 ZINC	2
11	13-0808	T-HANDLE LOCKING PIN	1
12	54-0051	WATER TANK - 500	1
13	52-0633	TANK MOUNTING BRACKET	2
14	12-0800-30	SOCKET HEAD CAP SCREW - M8X30 - ZINC	2
15	12-0840	LOCKNUT - M8 - ZINC	2
16	13-0809	FOOT PEG	2
17	96-0776	TILT STOP ASSEMBLY	2
18	12-0021-08	LOCKNUT - M8 - ZINC	4
19	12-0810-25	BUTTON HEAD CAP SCREW - M8X25 - ZINC	4
20	51-3554	CARRIAGE BOLT SLEEVE	2
21	13-0387	12" Lanyard	1
22	13-0804	SET SCREW CONE - MX10 - ZINC	2



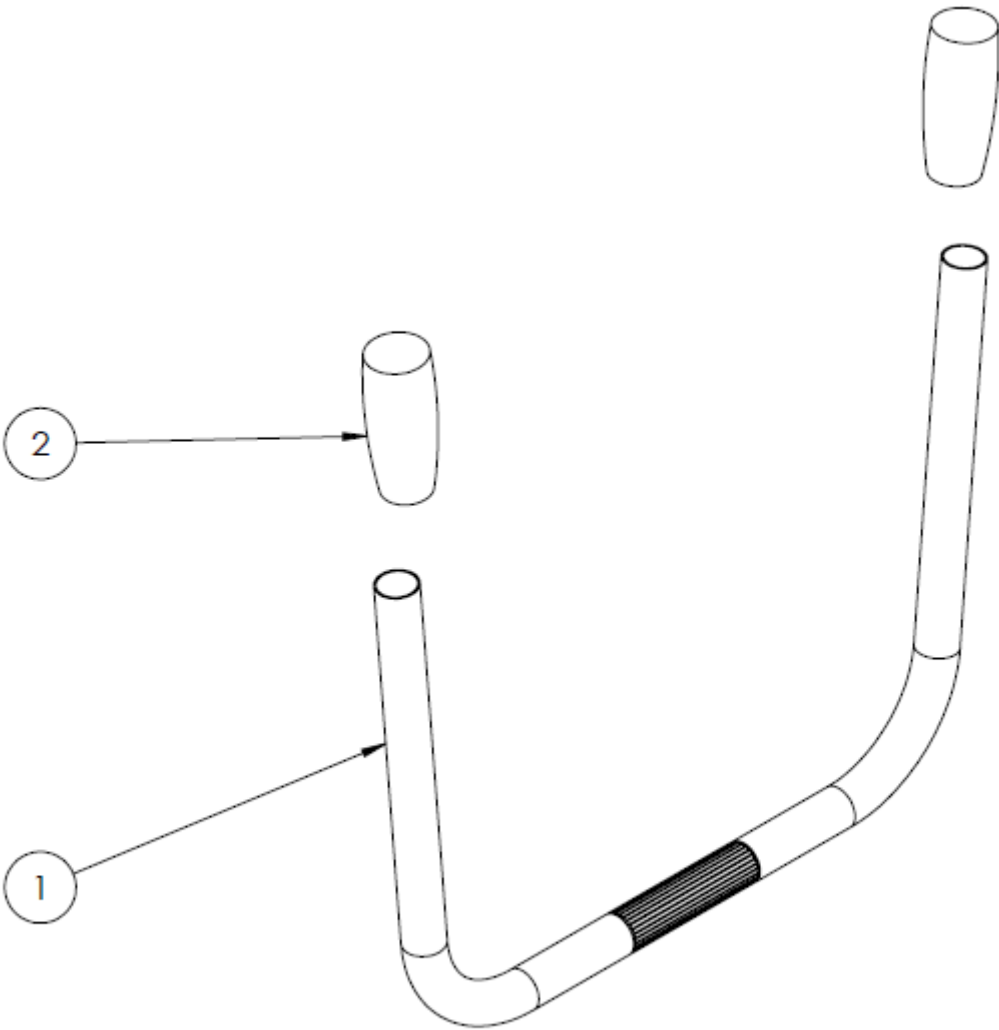
96-0726 - HANDLE ASSEMBLY – 500 - B

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	53-0802	HANDLE STEM WELDMENT	1
2	52-0631	BOTTOM COVER PANEL 500	1
3	52-0351	FRONT COVER PANEL	1
4	51-3200	HANDLE CAP PLATE	1
5	51-3500	REINFORCEMENT PLATE	2
6	13-0554	LOW-PROFILE ADJUSTABLE HANDLE	2
7	25-0182	GROMET 1IN	1
8	12-0410-06	BUTTON HEAD CAP SCREW - M4X6 - ZINC	10
9	12-0810-16	BUTTON HEAD CAP SCREW - M8X16 - ZINC	4
10	13-0807	FLANGED BUSHING	2



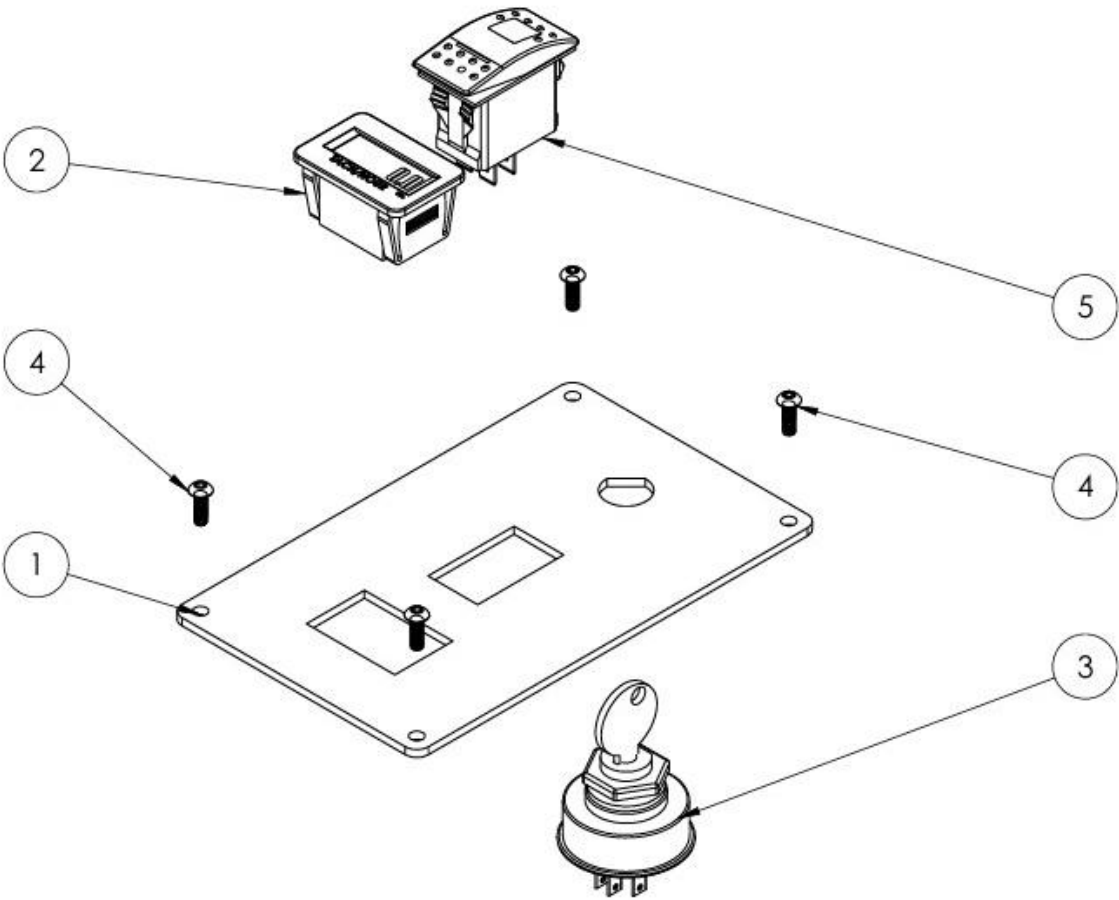
96-0720 - BG HANDLE – 500, 650, & 800 - C

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



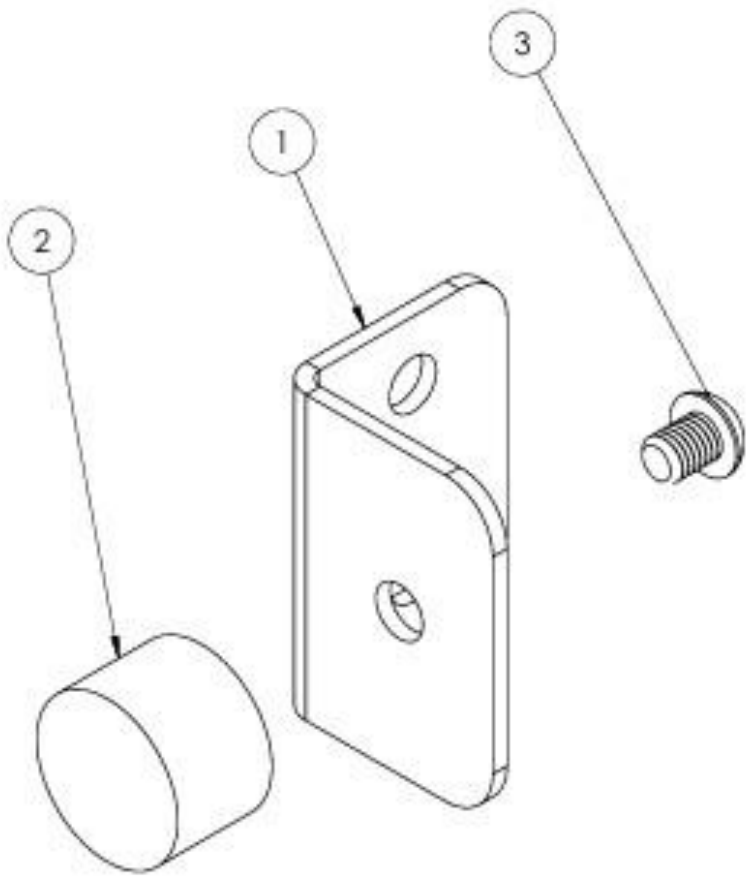
96-0770 - SWITCH PANEL – 500PRO - A

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	52-0632	SWITCH PLATE, 500PRO	1
2	22-0101	HOUR/TACH DIGITAL METER	1
3	22-0102	IGNITION SWITCH	1
4	12-0410-12	BUTTON HEAD CAP SCREW - M4X12	4
5	22-0103	SWITCH LIGHTED 4 PIN	1



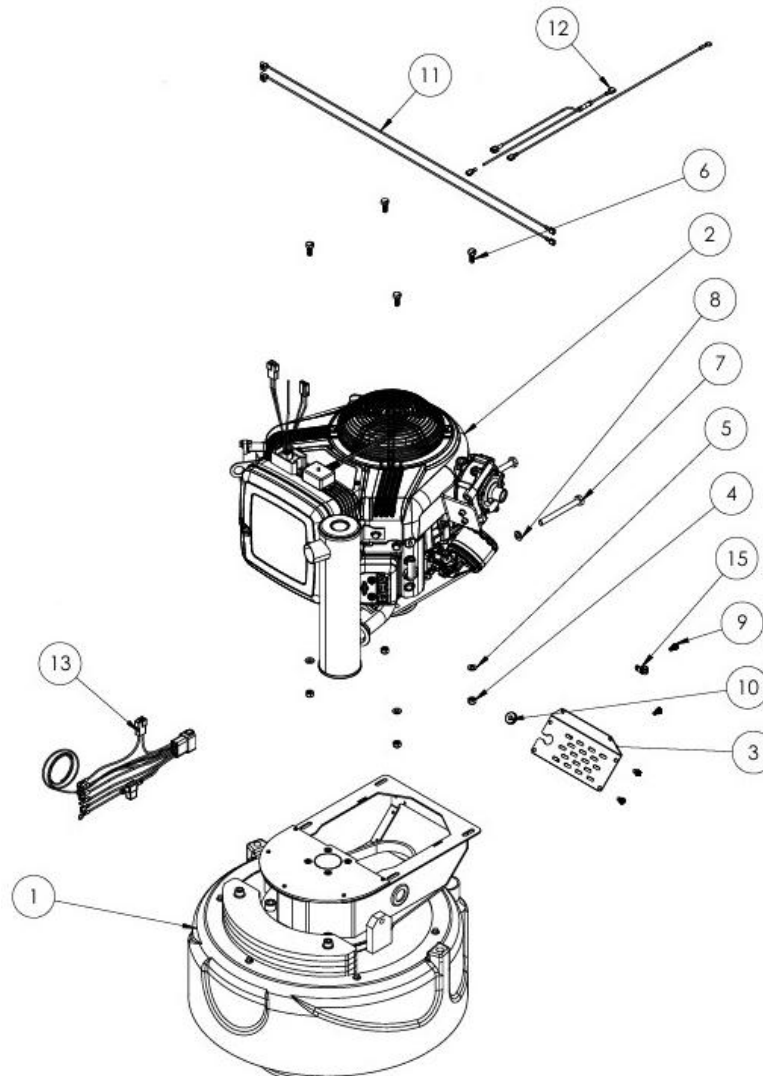
96-0776 – TILT STOP ASSEMBLY - A

ITEM NO.	Part Number	DESCRIPTION	QTY.
1	52-0638	TILT STOP	1
2	13-0820	RUBBER BUMPER	1
3	12-0810-10	BUTTON HEAD CAP SCREW – M8X10 – ZINC	1



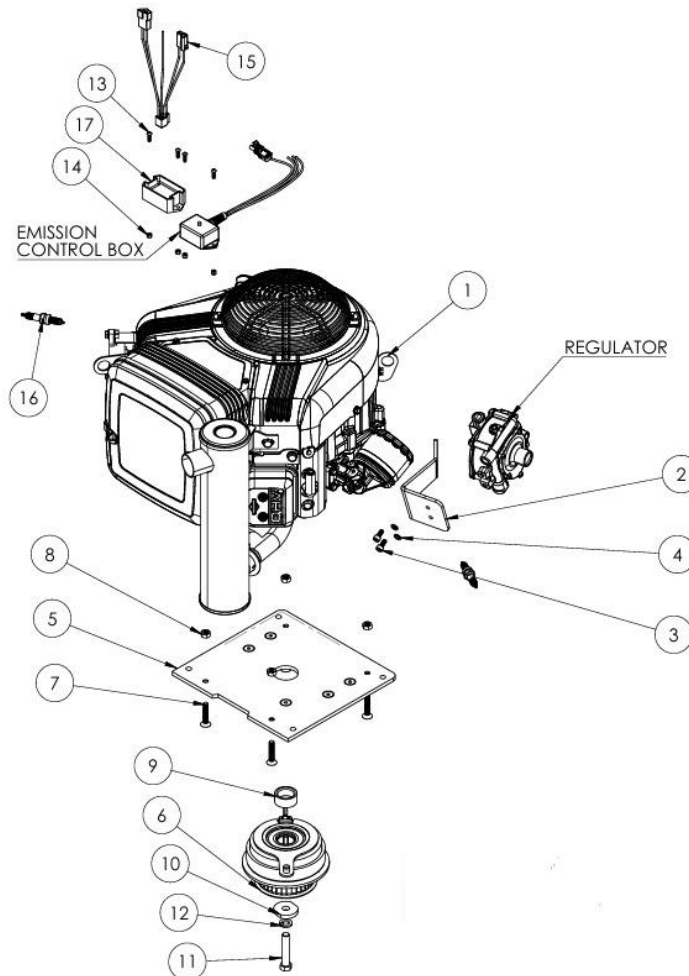
96-0773 – DRUM ASSEMBLY – 500PRO - D

ITEM NO.	Part Number	DESCRIPTION	QTY.
1	96-0772	DRUM CLUTCH BOX SUB ASSEMBLY 500PRO	1
2	96-0768	ENGINE ASSEMBLY	1
3	51-3427	REAR CLUTCH COVER	1
4	12-0840	LOCKNUT - M8 - ZINC	4
5	12-0850	WASHER - M8 - ZINC	4
6	12-0820-20	HEX HEAD CAP SCREW - M8X20-ZINC	4
7	12-1020-100	HEX HEAD CAP SCREW M10-1.5 X 100 - ZINC	2
8	12-0018-10	LOCK WASHER - M10 - ZINC	2
9	12-0600-10	SOCKET HEAD CAP SCREW - M6X10 - ZINC	6
10	13-0818	GROMMET, RUBBER 1/2" ID 3/4" OD	1
11	24-0311	OIL PRESSURE HARNESS 800PRO	1
12	24-0310	POWER SPLITTER HARNESS 800PRO	1
13	24-0317	ENGINE SIDE HARNESS 650PRO AND 800PRO	1
14	25-0051	SPADE TERMINAL BLUE 14-16GA MALE	5
15	13-0285-02	LOOP CLAMP, 1/4 IN	1



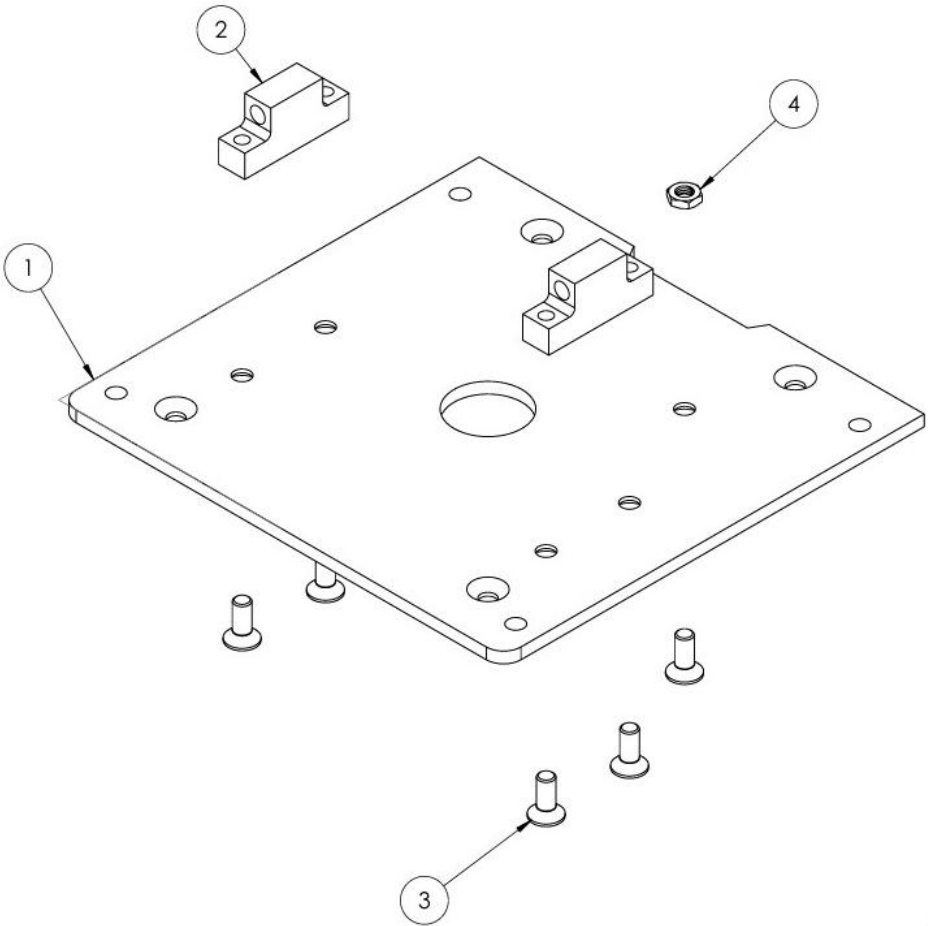
96-0768 – ENGINE ASSEMBLY 500PRO - B

ITEM NO.	Part Number	DESCRIPTION	QTY.
1	43-0479	B&S 479CC 16HP VERTICAL	1
2	52-0637	REGULATOR BRACKET, 500	1
3	12-0600-14	SHCS, M6X14, ZP	2
4	12-0018-06	Steel Split Lock Washer, 6mm,	2
5	96-0769	ENGINE MOUNT PLATE ASSY - 500P	1
6	13-3332	CLUTCH - 500PRO	1
7	12-0880-40	FHS, M8X40, ZP	4
8	12-0027-08	Hex Nut, Steel, M8x1.25, ZP	4
9	51-3425	CLUTCH SPACER, 500PRO	1
10	51-3426	CLUTCH BEARING RETAINER	1
11	11-0388	HHCS 7/16"X2.25" - ZINC	1
12	11-0378	LOCK WASHER 7/16" - ZINC	1
13	12-0410-16	BUTTON HEAD CAP SCREW - M4X16	4
14	12-0440	LOCKNUT - M4 - ZINC	4
15	23-0259	SOFT START CABLE, 500PRO	1
16	43-0430	SPARK PLUG, B&S	2
17	23-0250	SOFT START,CLUTCH -650/800PRO	1



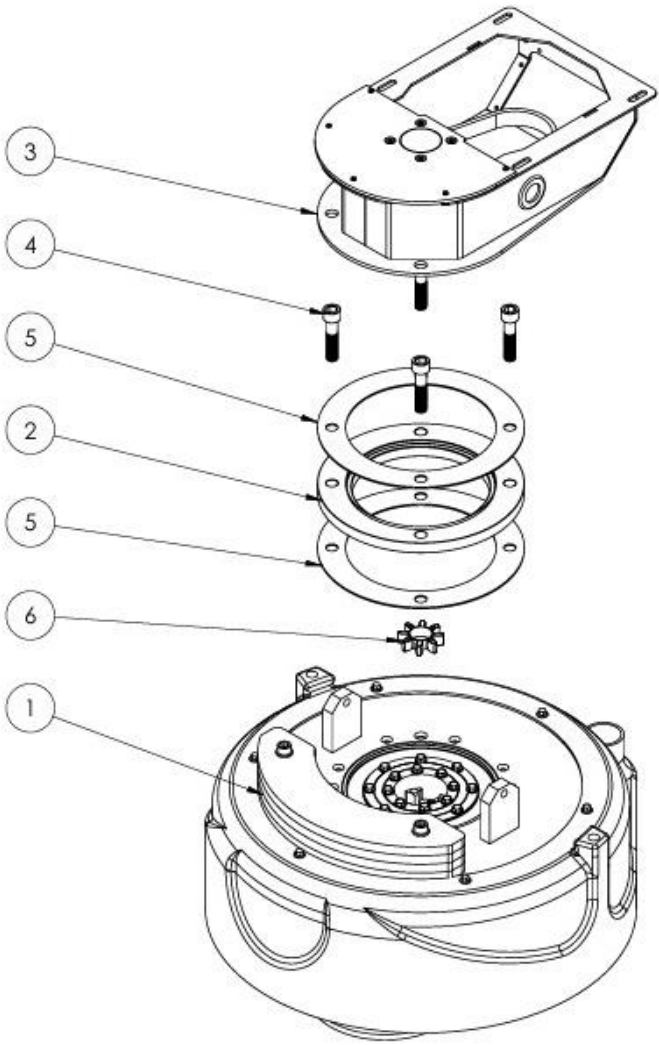
96-0769 – ENGINE MOUNT PLATE ASSEMBLY 500PRO - A

ITEM NO.	Part Number	DESCRIPTION	QTY.
1	51-3424	MOTOR PLATE, 500PRO	1
2	51-3399	BLOCK TENSIONER - 650PRO	2
3	12-0880-20	FHSCS, M8-1.25 X 20MM, ZP	5
4	12-0063	M81.25 JAM NUT	1



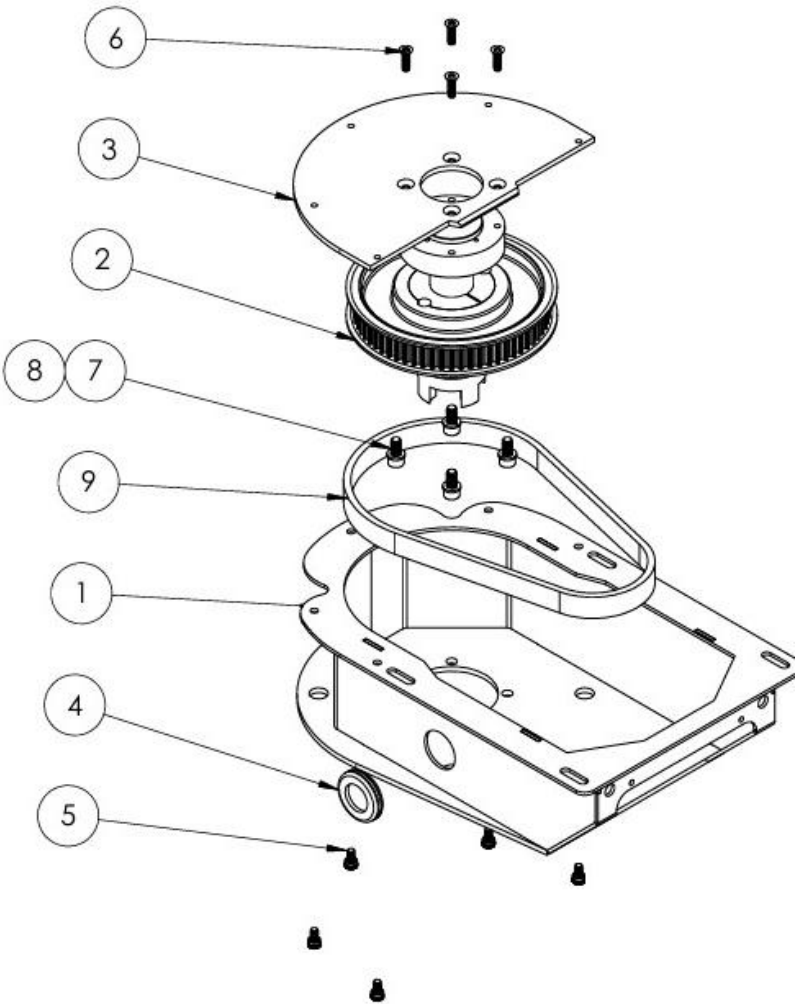
96-0772 – DRUM CLUTCH BOX SUB ASSEMBLY 500PRO - B

ITEM NO.	Part Number	DESCRIPTION	QTY.
1	96-0817	DRUM - 500	1
2	51-3384	DRUM TO DRIVE SPACER	1
3	96-0771	CLUTCH ASSEMBLY 500 PRO	1
4	12-1400-60	SOCKET HEAD CAP SCREW - M14X60-ZINC	4
5	13-0677	MOTOR GASKET 500	2
6	13-0744	SPIDER BUSHING RED	1



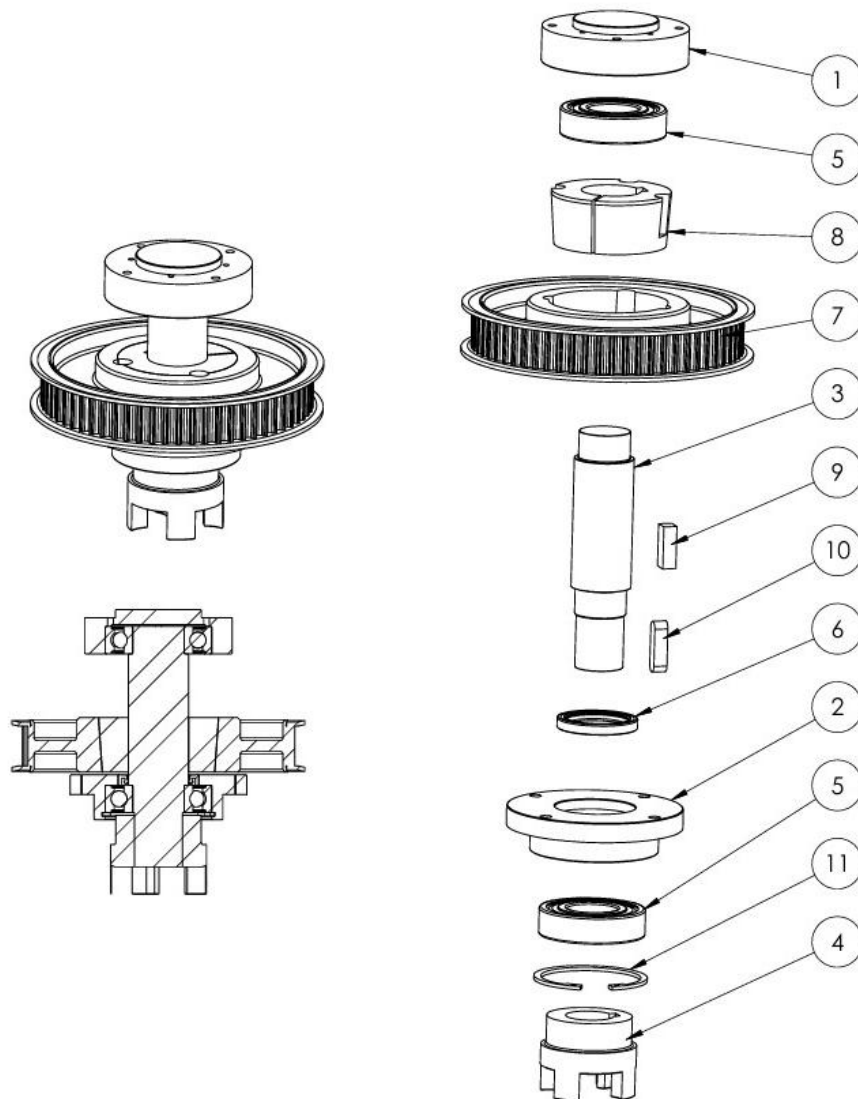
96-0771 – CLUTCH ASSEMBLY 500PRO - B

ITEM NO.	Part Number	DESCRIPTION	QTY.
1	53-0801	BELT HOUSING 500 PRO	1
2	96-0767	TRANSFER ASSEMBLY 500 PRO	1
3	51-3423	TOP COVER 500 PRO	1
4	25-0182	GROMET 1IN	1
5	12-0600-10	SOCKET HEAD CAP SCREW - M6X10 - ZINC	5
6	12-9680-20	TORX FLAT HEAD - M6X20 - ZINC	4
7	12-0800-16	SOCKET HEAD CAP SCREW - M8X16 - ZINC	4
8	12-0018-08	18-8 STAINLESS STEEL SPLIT LOCK WASHER	4
9	13-0810	BELT, POLYCHAIN 8MGT-720-21	1



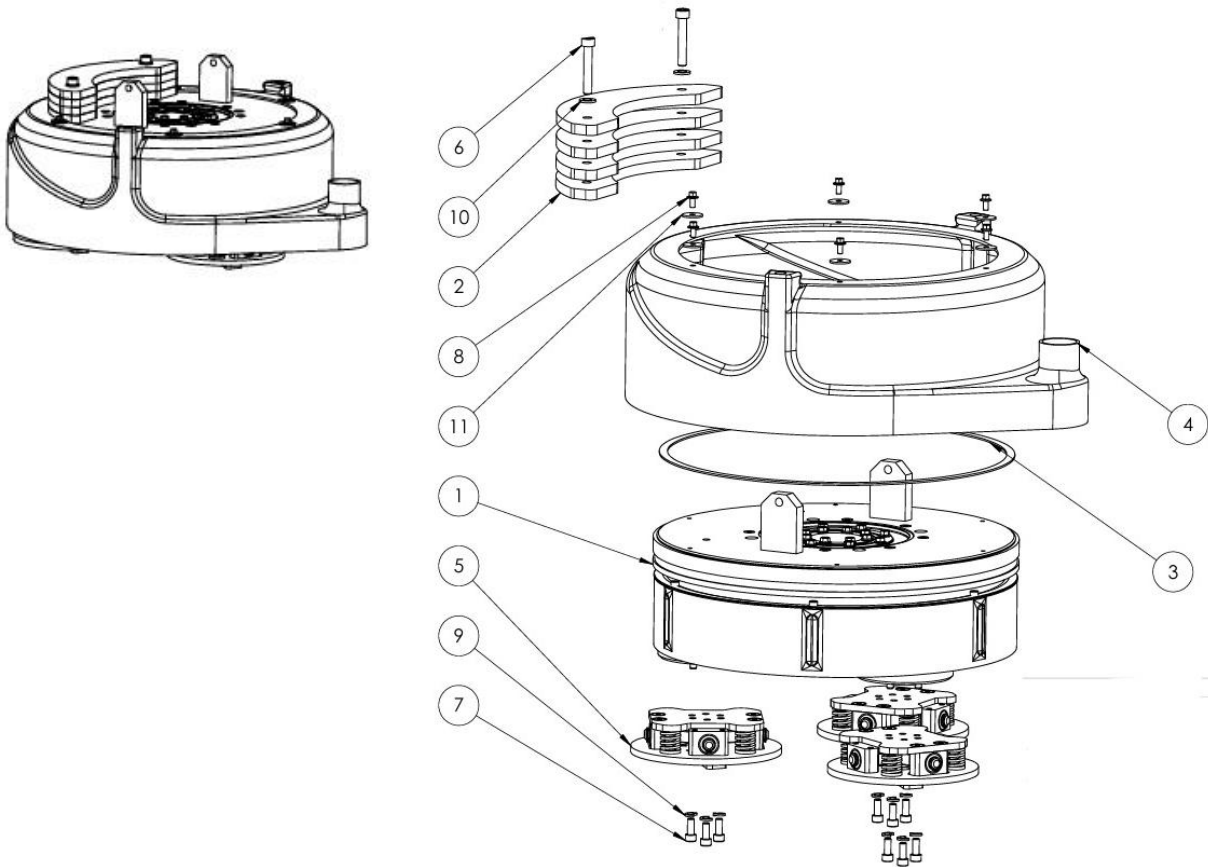
96-0767 – TRANSFER ASSEMBLY 500PRO - B

ITEM NO.	Part Number	DESCRIPTION	QTY.
1	51-3421	PROPANE UPPER BEARING HOUSING 500 PRO	1
2	51-3422	PROPANE LOWER BEARING HOUSING 500 PRO	1
3	51-3428	TRANSFER SHAFT	1
4	51-4006	COUPLING, LOVEJOY FLEX SIZE 24 HUB 28/BG5KP	1
5	13-0815	BEARING	2
6	13-0816	SAFT SEAL	1
7	13-0817	SPROCKET	1
8	13-0811	BUSHING	1
9	13-0812	SQUARE KEY	1
10	13-0813	ROUNDED KEY	1
11	13-0814	RING SMALLEY INTERNAL RETAINING M62	1



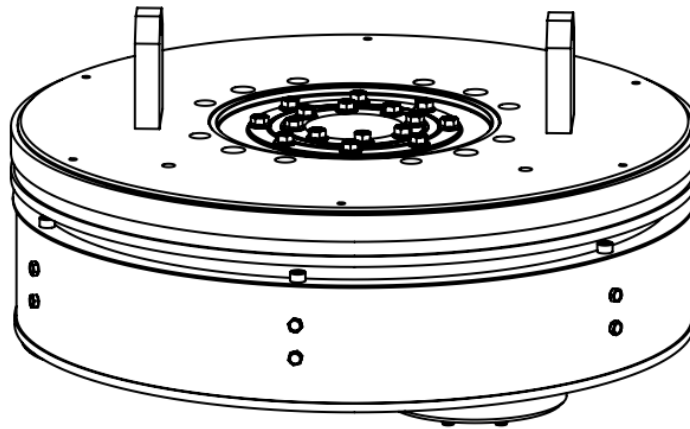
96-0817 - DRUM ASSEMBLY – 500 - C

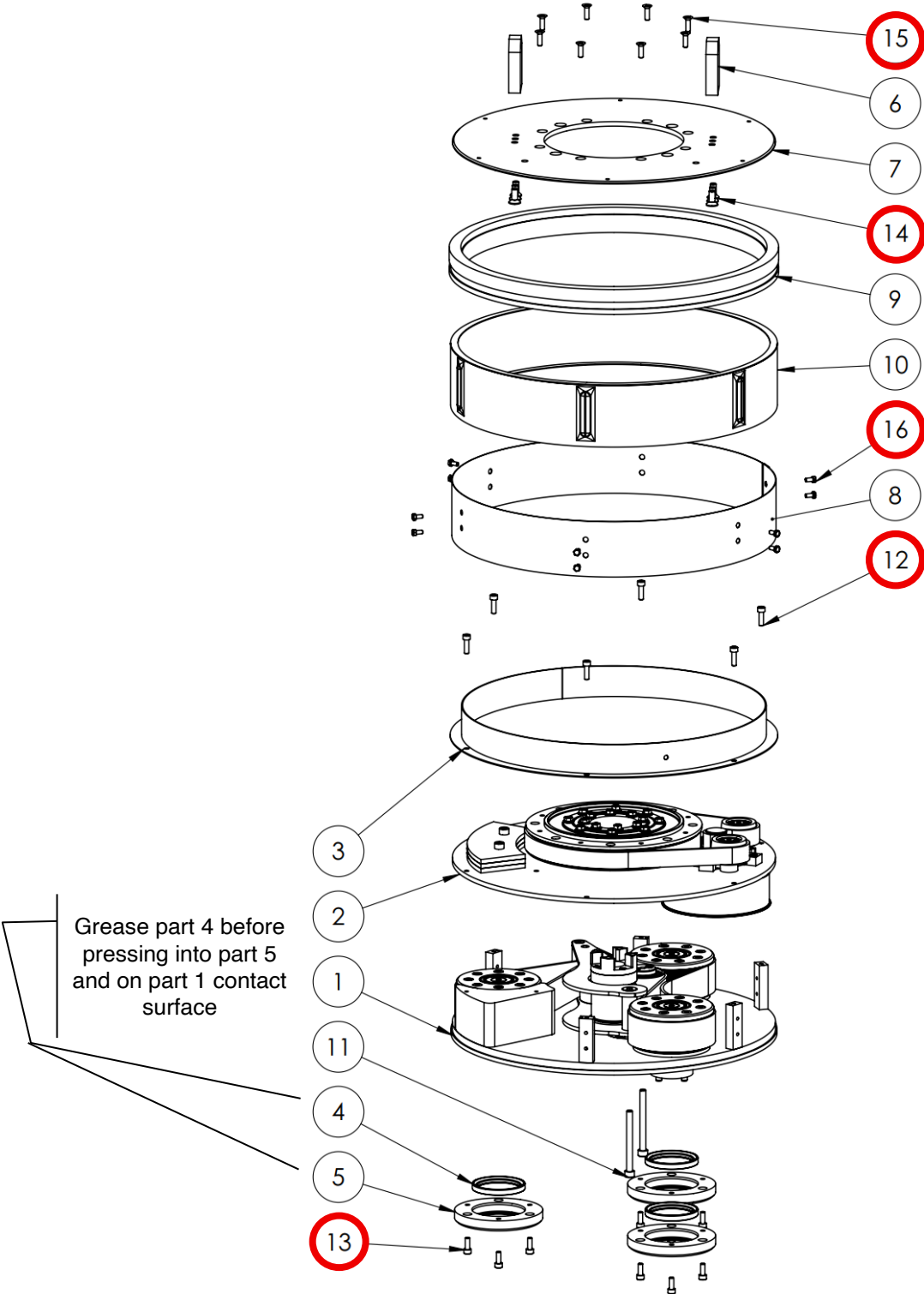
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	BG.5000.85	DRUM ASSEMBLY, BASE /P500	1
2	BG.51008.00	WEIGHT, /P500	4
3	BG.20249.00	RUBBER, EPDM GASKET /P500	1
4	BG.50060.00	SHROUD, MOLDED VACUUM 500	1
5	BG.5000.90	FLEX HEAD P50	3
6	NB.12.238	SOCKET HEAD CAP SCREW - ZINC - M10X60	2
7	NB.10.218	SCREW, SOCKET HEAD CAP M8-1.25 X 20	9
8	NB.11.109	SCREW, FLANGED HEX HEAD CAP M6-1.0 X 12 NON-SERRATED ZINC	6
9	NB.20.212	WASHER, LOCK M8 ZINC	9
10	NB.30.110	WASHER, FLAT M10 ZINC	2
11	NB.30.408	WASHER, FENDER M6 X 25 ZINC	6



BG.5000.85 – DRUM ASSEMBLY, BASE /BG5K

Item No.	Part Number	Description	Qty.
1	4.5KBTMDRUMASSY	BOTTOM DRUM	1
2	5KTOPDRUMASSY		1
3	BG.45037.00	UPPER DUST RING	1
4	BG.20286.02	SEAL, AXLE NITRILE AL. SLURRY COVER /BG8K BG6K BG5K (WA)	3
5	BG.50085.00	COVER, PLANETARY SLURRY ALUMINUM	3
6	BG.45038.50	MOUNTING EAR	2
7	BG.45040.00	STATIONARY PLATE	1
8	BG.45041.00	BTM BELT DUST SHROUD	1
9	BG.45078.00	TOP BELT SEAL	1
10	BG.20287.00	TAPE, PRESERVATION HEAT SHRINK 3" WHITE	
11	NB.12.264	SOCKET HEAD CAP SCREW - ZINC - M8X80	2
12	NB.12.116	SOCKET HEAD CAP SCREW - ZINC - M6X20	6
13	NB.12.111	SOCKET HEAD CAP SCREW - ZINC - M6X16	9
14	NB.13.218	SCREW, FLAT HEAD SOCKET CAP M8-1.25 X 20	6
15	NB.13.116	SCREW, FLAT HEAD SOCKET TORX CAP M6-1.0X20	8
16	NB.16.113	SCREW, HEX HEAD CAP M5-0.8 X 10 ZINC 8.8	12

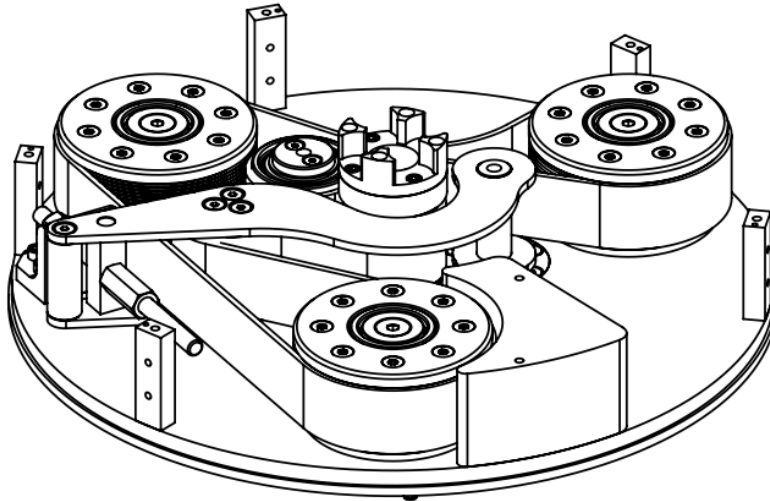


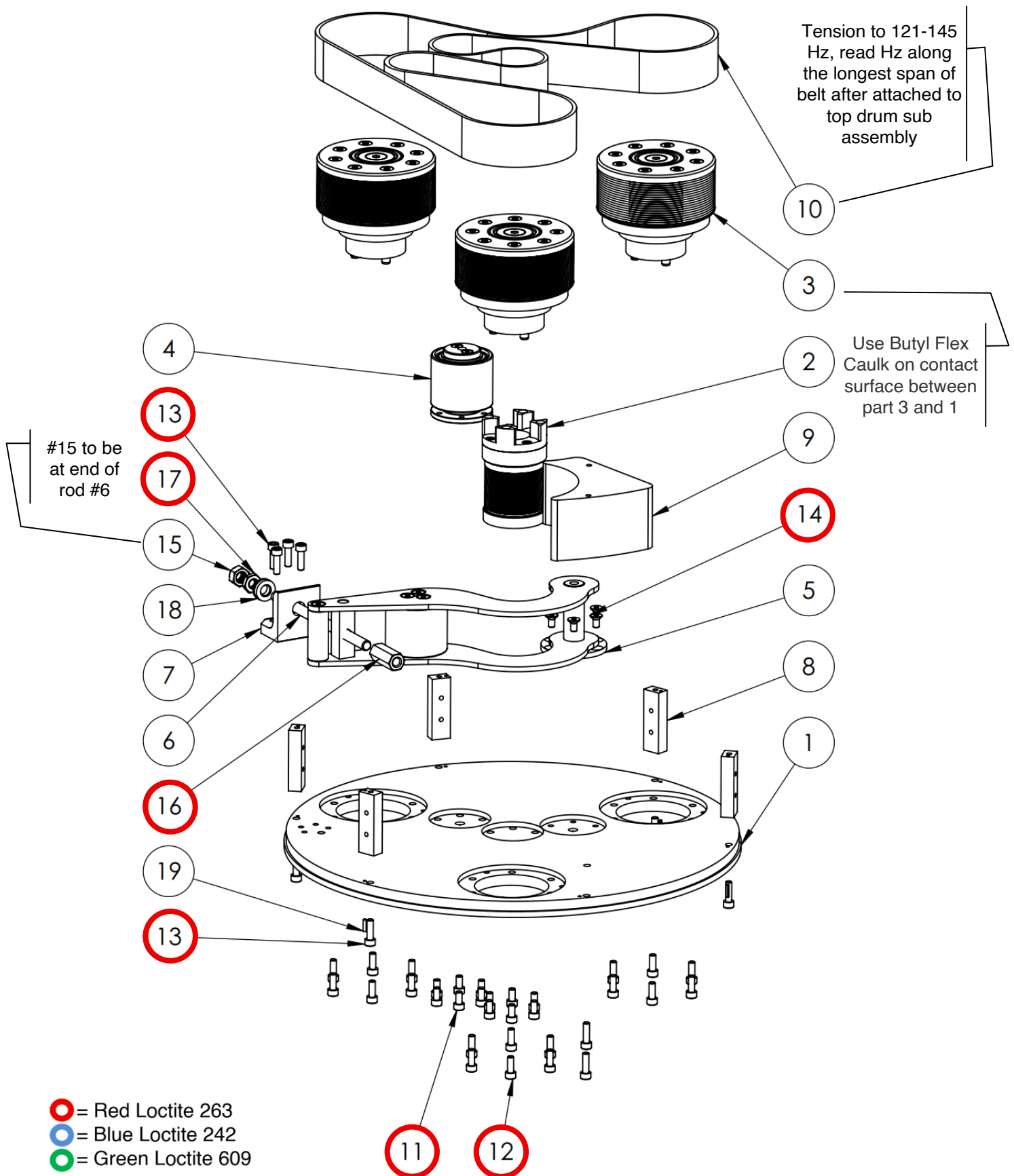


-  = Red Loctite 263
-  = Blue Loctite 242
-  = Green Loctite 609

BG.5AXX.XX – LOWER DRUM SUB ASSEMBLY 5K

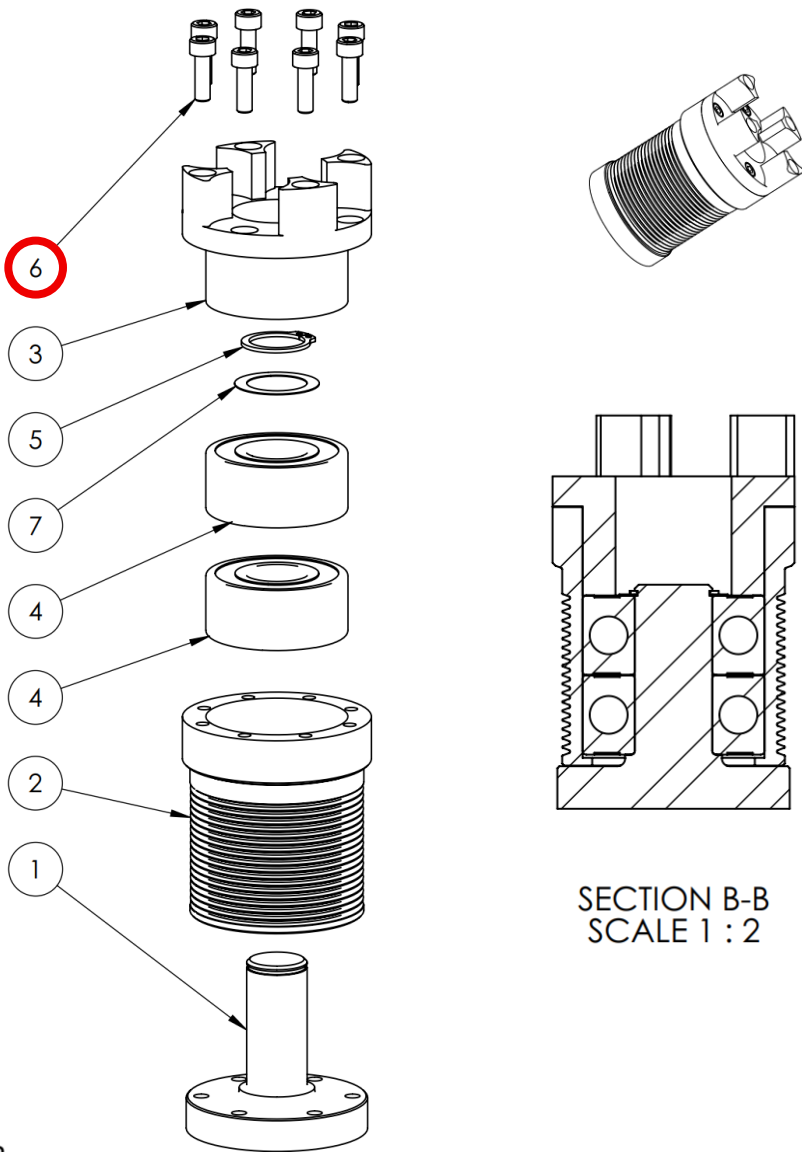
Item No.	Part Number	Description	Qty.
1	BG.45021.00	BTM DRUM PLATE	1
2	BG.4A006.00	SUBASSEM, MAIN BELT SPINDLE	1
3	BG.5A008.00	5K PLANETARY HUB	3
4	BG.4A007.00	SUBASSEM, MAIN IDLER	1
5	BG.4A005.00	SUBASSEM, MAIN TIGHTNER	1
6	BG.45018.25	TIGHTENER ROD, BG 5K	1
7	BG.45017.25	REACTION POST - STYLE II	1
8	BG.45016.00	PERIMETER STANCHION	5
9	BG.45019.00	BALANCE WEIGHT	1
10	BG.45042.00	BELT, MAIN PJ18 M1872	1
11	NB.12.108	SOCKET HEAD CAP SCREW - ZINC - M6X12	12
12	NB.12.111	SOCKET HEAD CAP SCREW - ZINC - M6X16	18
13	NB.12.116	SOCKET HEAD CAP SCREW - ZINC - M6X20	11
14	NB.13.118	SCREW, FLAT HEAD SOCKET CAP M6 -1.0 X 12 ZINC	6
15	NB.20.131	NUT, NYLOC M10 ZINC	1
16	NB.20.119	NUT, COUPLER M10-1.5	1
17	NB.20.137	JAM NUT M10 - 1.5	1
18	NB.32.101	WASHER, SPHERICAL M10	1
19	NB.50.145	PIN, SPIRAL M3 X 12	5





BG.4A006.00 – SUBASSEM, MAIN BELT SPINDLE

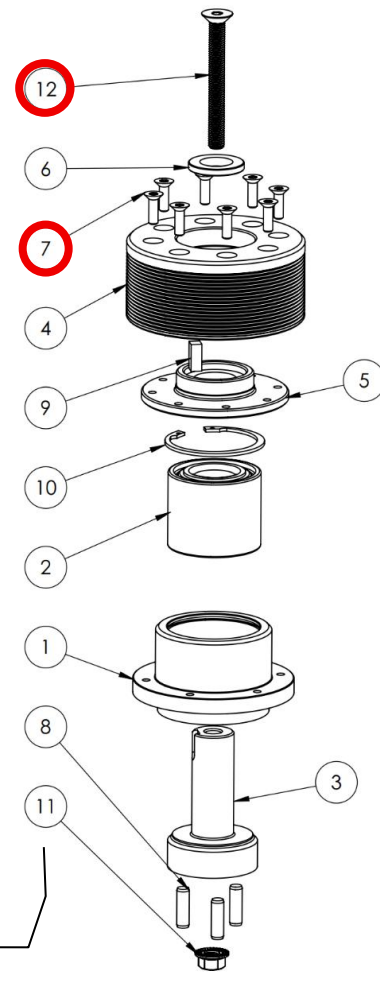
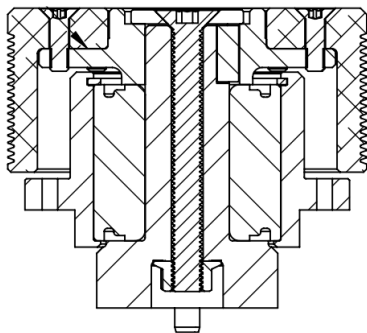
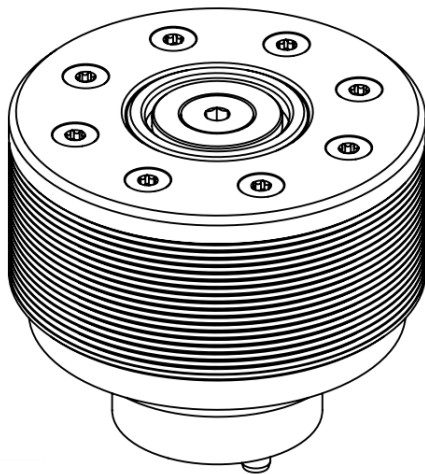
Item No.	Part Number	Description	Qty.
1	BG.45008.00	MAIN DRIVE SPINDLE	1
2	BG.45007.00	MAIN DRIVE SHEAVE	1
3	BG.45009.00	COUPLER, DRIVEN MOTOR	1
4	BG.20220.00	BEARING, 3204-2RS	2
5	NB.40.104	RING, EXTERNAL RETAINING M20	1
6	NB.12.090	SCREW, SOCKET HEAD CAP M5-0.8 X 16	8
7	NB.30.122	WASHER, SPRING M30.5 X 46.5 X 6	1



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

BG.5A008.00 – 5K PLANETARY HUB

Item No.	Part Number	Description	Qty.
1	BG.45003.00	PLANETARY BEARING HOUSE	1
2	BG.20248.00	BEARING, 513071-2RS	1
3	BG.50010.00	PLANETARY AXLE FOR 5K	1
4	BG.50002.00	PLANETARY SHEAVE 5K	1
5	BG.50011.00	SPINDLE ROTOR COMPONENT 5K	1
6	BG.50003.00	WASHER 5K SPINDLE TOP	1
7	NB.13.116	SCREW, FLAT HEAD SOCKET, TORX CAP M6 -1.0 X 20	8
8	NB.50.143	PIN, HARDENED M8 X 26	3
9	NB.70.126	PARALLEL KEY, M8X7X18, 5K DRUM	1
10	NB.40.123	RING, INTERNAL RETAINING M60	1
11	NB.20.122	NUT FLANGE, M10X1.5	1
12	NB.13.253	SCREW, SOCKET FLAT HEAD CAP M10-1. X 90	1

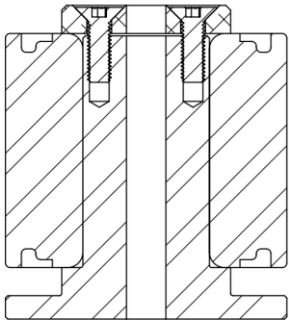
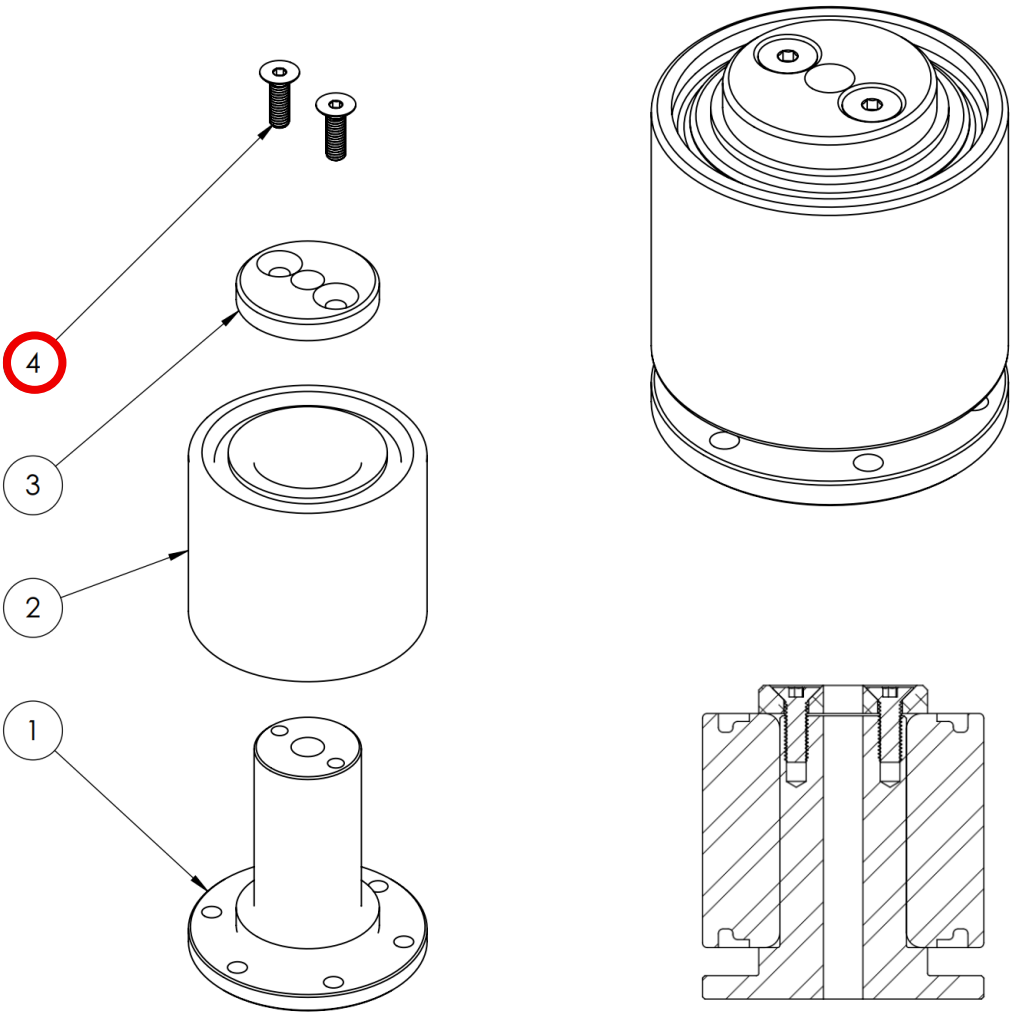


Torque to 40 ft-lb

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

BG.4A007.00 – SUBASSEM, MAIN IDLER

Item No.	Part Number	Description	Qty.
1	BG.45005.00	MAIN IDLER SPINDLE	1
2	BG.20248.00	BEARING, 513071-2RS	1
3	BG.45006.00	IDLER BEARING RETAINER	1
4	NB.13.119	SCREW, FLAT HEAD SOCKET CAP M5-0.8 X 16	2

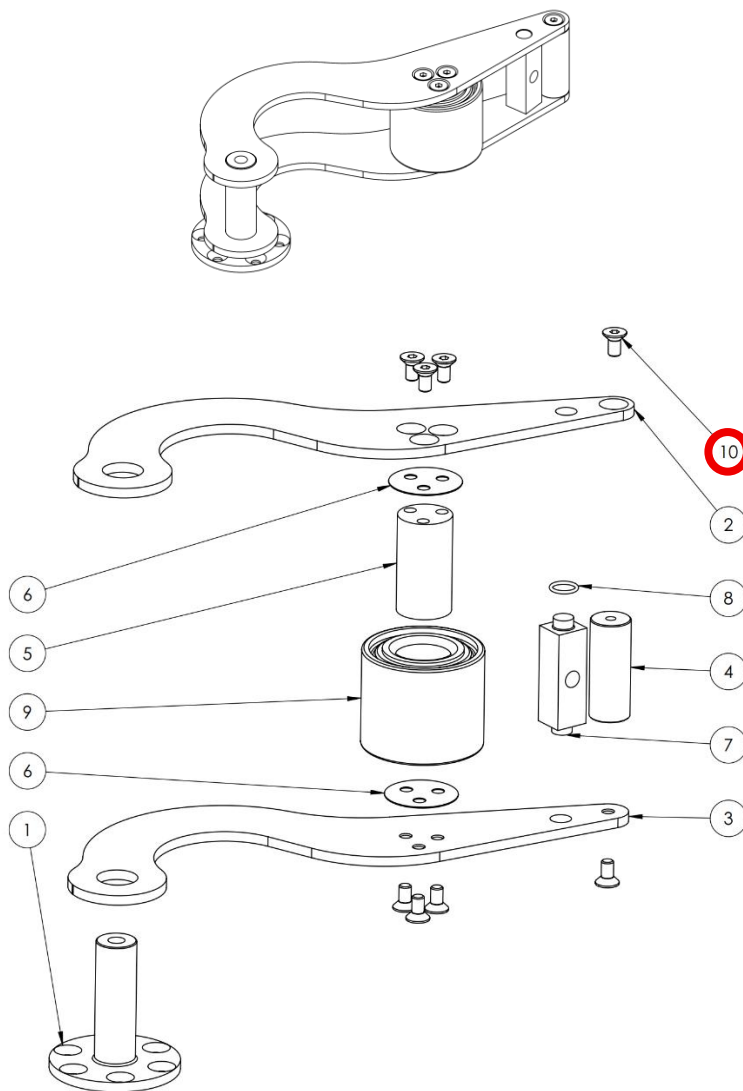


SECTION B-B
SCALE 1 : 1

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

BG.4A005.00 – SUBASSEM, MAIN TIGHTENER

Item No.	Part Number	Description	Qty.
1	BG.45012.00	TIGHTENER PIVOT POST	1
2	BG.45010.00	TOP TIGHTENER PLATE	1
3	BG.45011.00	BOTTOM TIGHTENER PLATE	1
4	BG.45013.00	TIGHTENER STANCION	1
5	BG.45014.00	TIGHTENER BEARING SPINDLE	1
6	BG.45015.00	BEARING SPACER	2
7	BG.45020.25	TENSIONER GRUDGEON	1
8	BG.45080.00	TIGHTENER O-RING	1
9	BG.20248.00	BEARING, 513071-2RS	1
10	NB.13.118	SCREW, FLAT HEAD SOCKET CAP M6 -1.0 X 12 ZINC	8



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

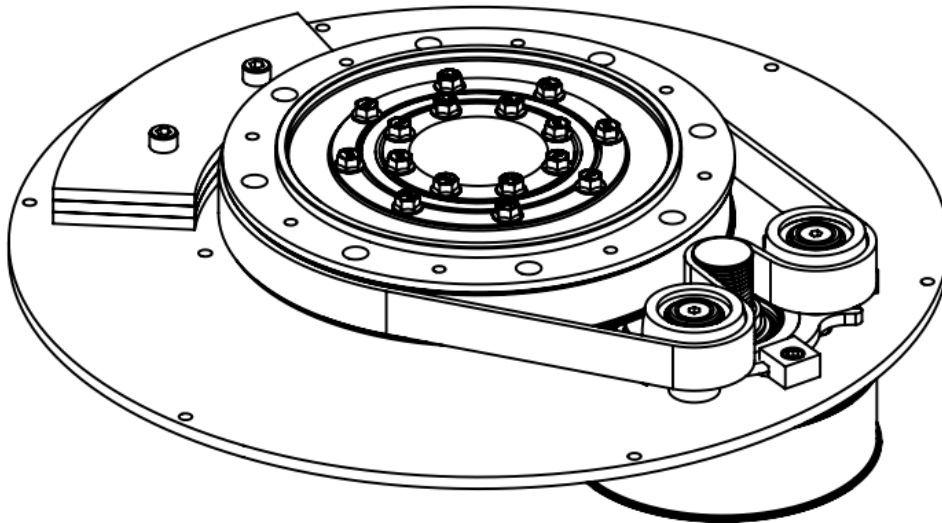
BG.5AXXX.XX – 5K TOP DRUM SUB ASSEMBLY

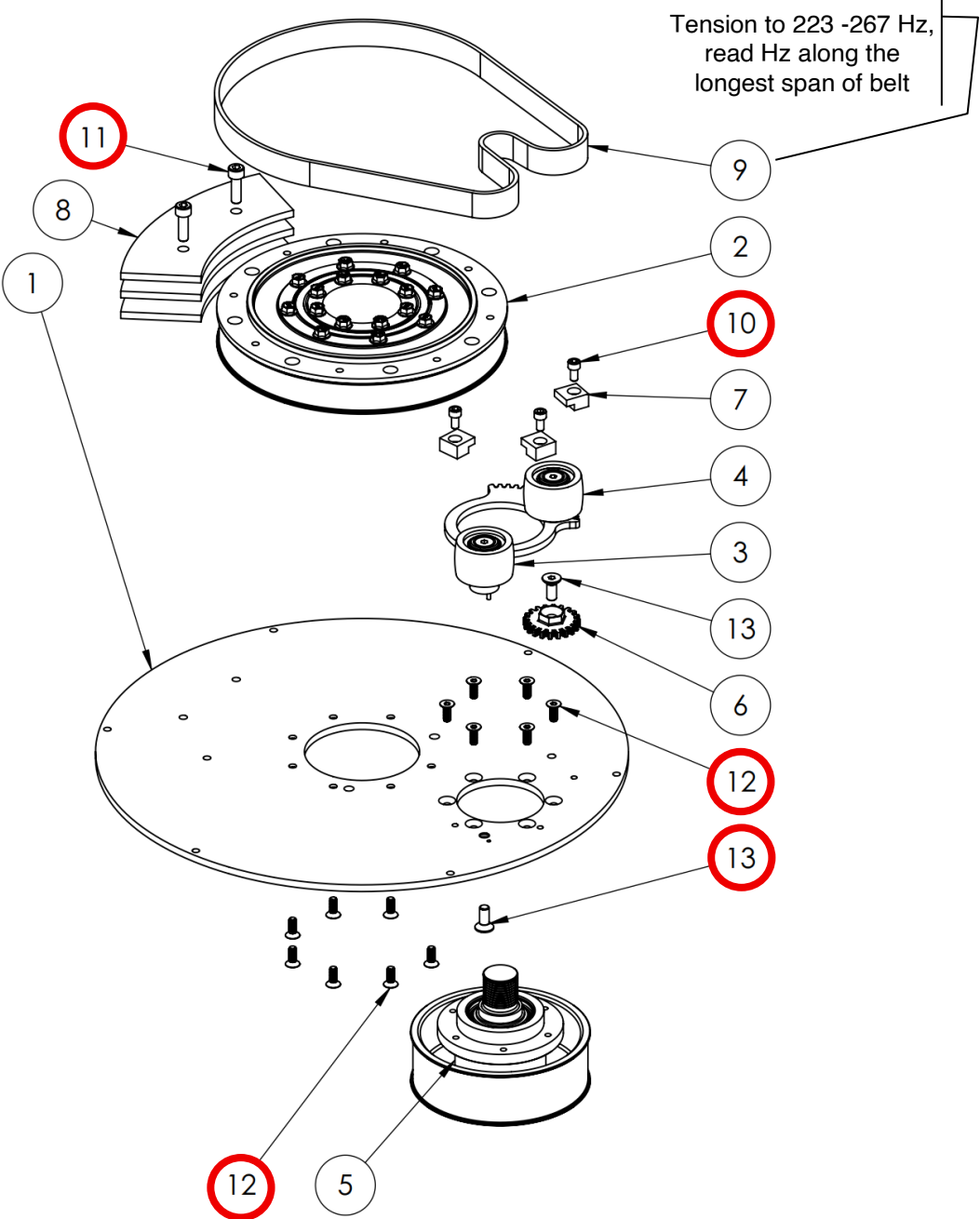
Item No.	Part Number	Description	Qty.
1	BG.50022.00	TOP DRUM PLATE STEEL	1
2	BG.4A001.00	DRUM SHEAVE ASSEMBLY	1
3	BG.4A002.00	TOP IDLER	1
4	BG.4A003.00	TOP TIGHTENER	1
5	BG.4A004.00	SUBASSEM, PTO	1
6	BG.45030.00	TOP TIGHTENER ACTUATOR	1
7	BG.45058.00	TIGHTENER CLAMP	3
8	BG.50036.10	UPPER COUNTER WEIGHT	3
9	BG.45056.00	BELT, TOP 380PJ10	1
10	NB.12.108	SOCKET HEAD CAP SCREW - ZINC - M6X12	3
11	NB.12.219	SOCKET HEAD CAP SCREW - ZINC - M8X25	2
12	NB.13.115	SCREW, FLAT HEAD SOCKET M6 -1.0 X 16	13
13	NB.13.218	SCREW, FLAT HEAD SOCKET CAP M8-1.25 X 20	2

Notes: To Assemble

1. Start with #1, Insert #3, Bolt down with #13. Then remove the sheave from #3.
2. Insert #5, bolt down with #12.
3. Insert #4, Insert #7's, bolt down with #10's.
4. replace the sheave to #3.
5. Insert #6, bolt down with #13.

Now CHECK the height of #3 and #4. If same, complete assembly. If they are uneven, Insert NB.31.101 spacer to level them. The rest of the parts can be added once #3 and #4 are in place and even at the top edge.

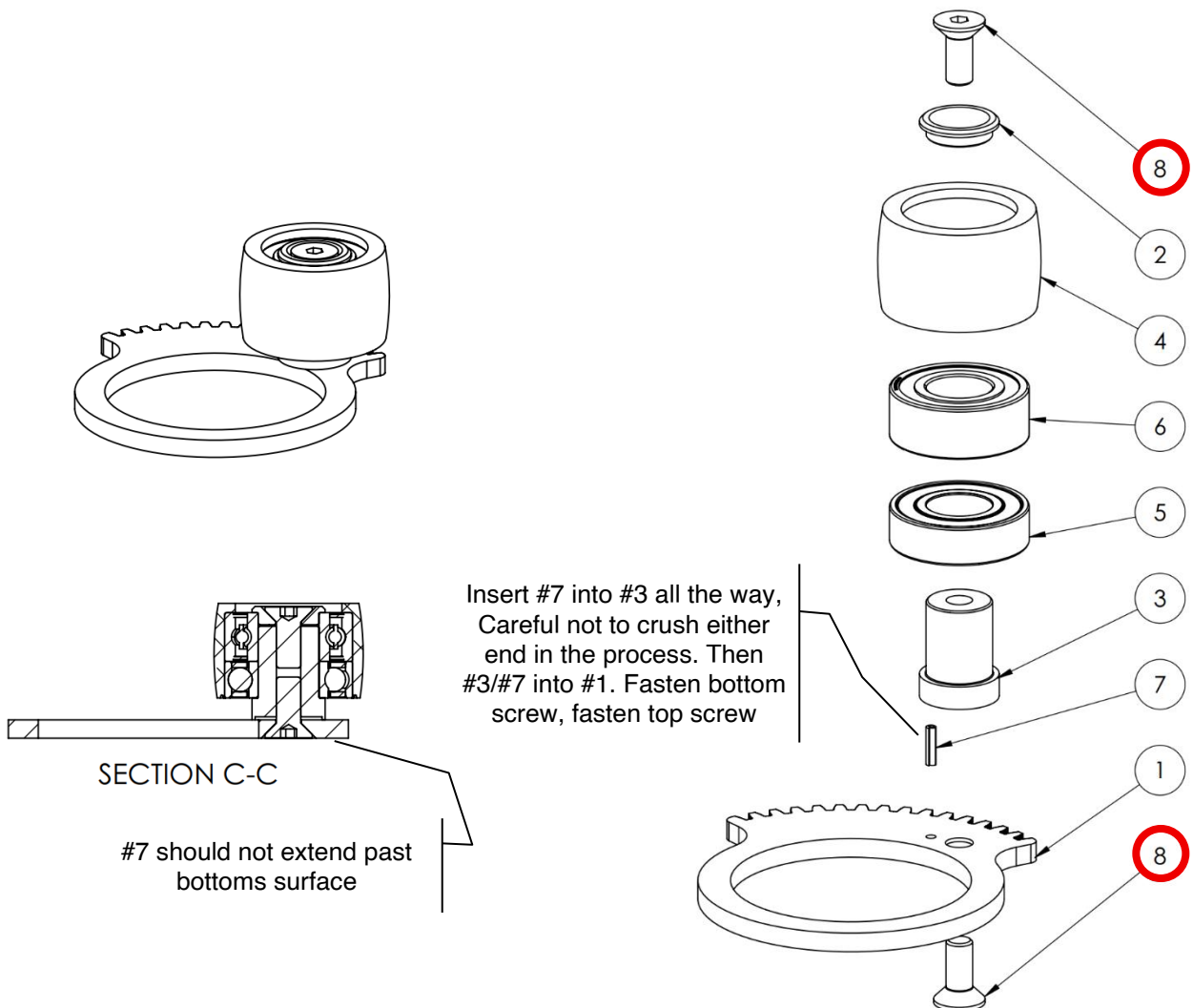




-  = Red Loctite 263
-  = Blue Loctite 242
-  = Green Loctite 609

BG.4A003.00 – PTO TENSIONER SUBASSEMBLY, 6K/8K

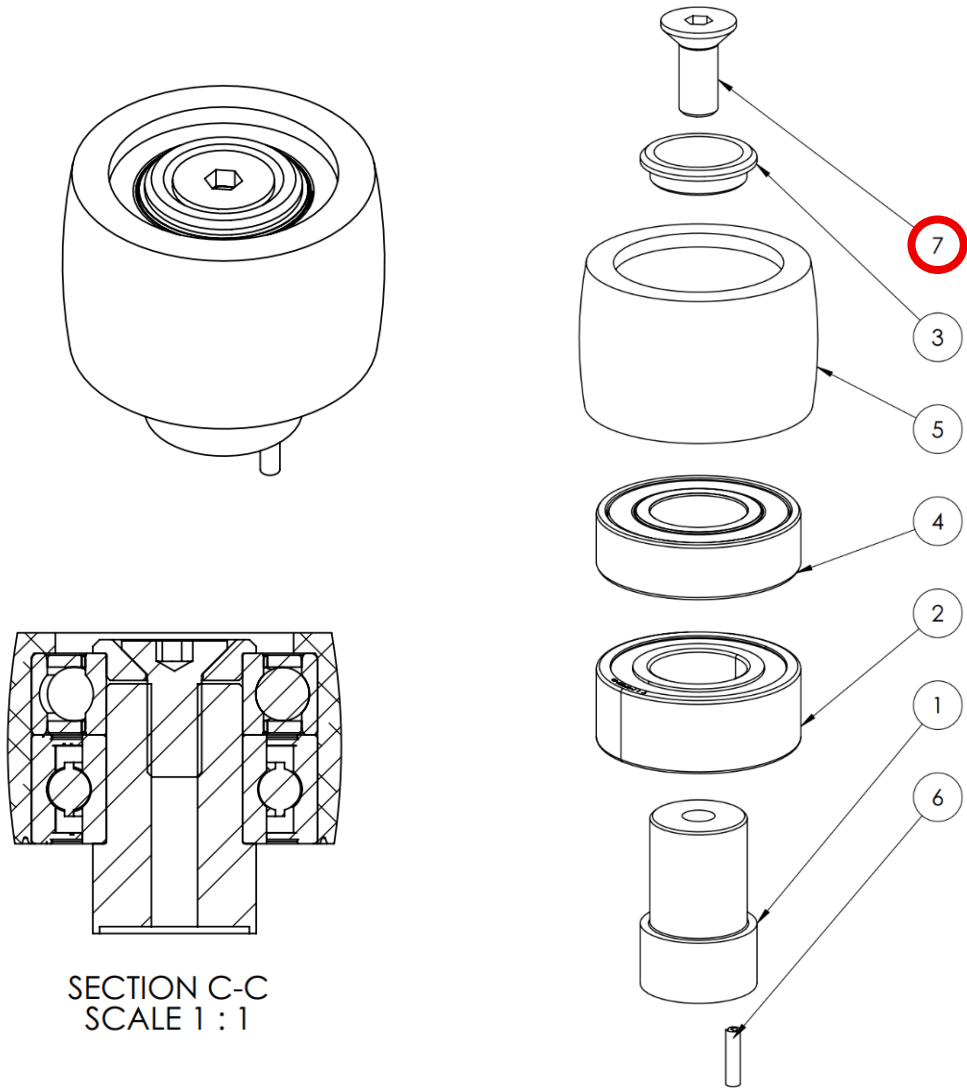
Item No.	Part Number	Description	Qty.
1	BG.45026.00	TOP TIGHTENER GEAR	1
2	BG.45027.00	BEARING CAP	1
3	BG.45028.00	TOP TIGHTENER SPINDLE	1
4	BG.45104.00	TOP TIGHTENER SHEAVE	1
5	BG.20278.00	BEARING, 6004-2RS	1
6	BG.20280.00	BEARING, 63004-2RSJ	1
7	NB.50.145	PIN, SPIRAL M3 X 12	1
8	NB.13.218	SCREW, FLAT HEAD SOCKET CAP M8-1.25 X 20	2



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

BG.4A002.00 – TOP IDLER 5K

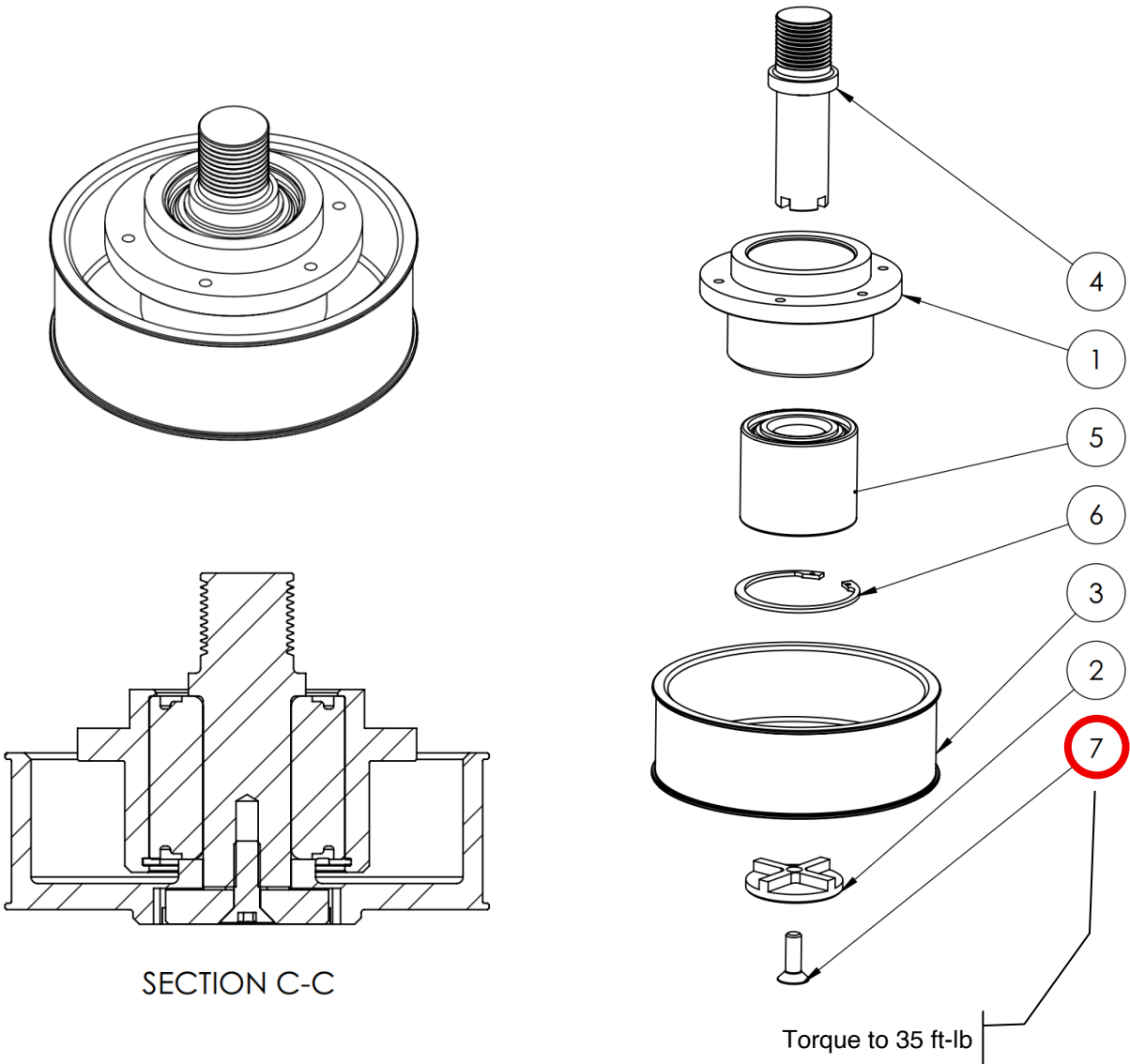
Item No.	Part Number	Description	Qty.
1	BG.45029.00	TOP IDLER SPINDLE	1
2	BG.20280.00	BEARING, 63004-2RSJ	1
3	BG.45027.00	BEARING CAP	1
4	BG.20278.00	BEARING, 6004-2RS	1
5	BG.45104.00	TOP TIGHTENER SHEAVE	1
6	NB.50.145	PIN, SPIRAL M3 X 12	1
7	NB.13.218	SCREW, FLAT HEAD SOCKET CAP M8-1.25 X 20	1



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

BG.4A004.10 – SUBASSEM, PTO 5K

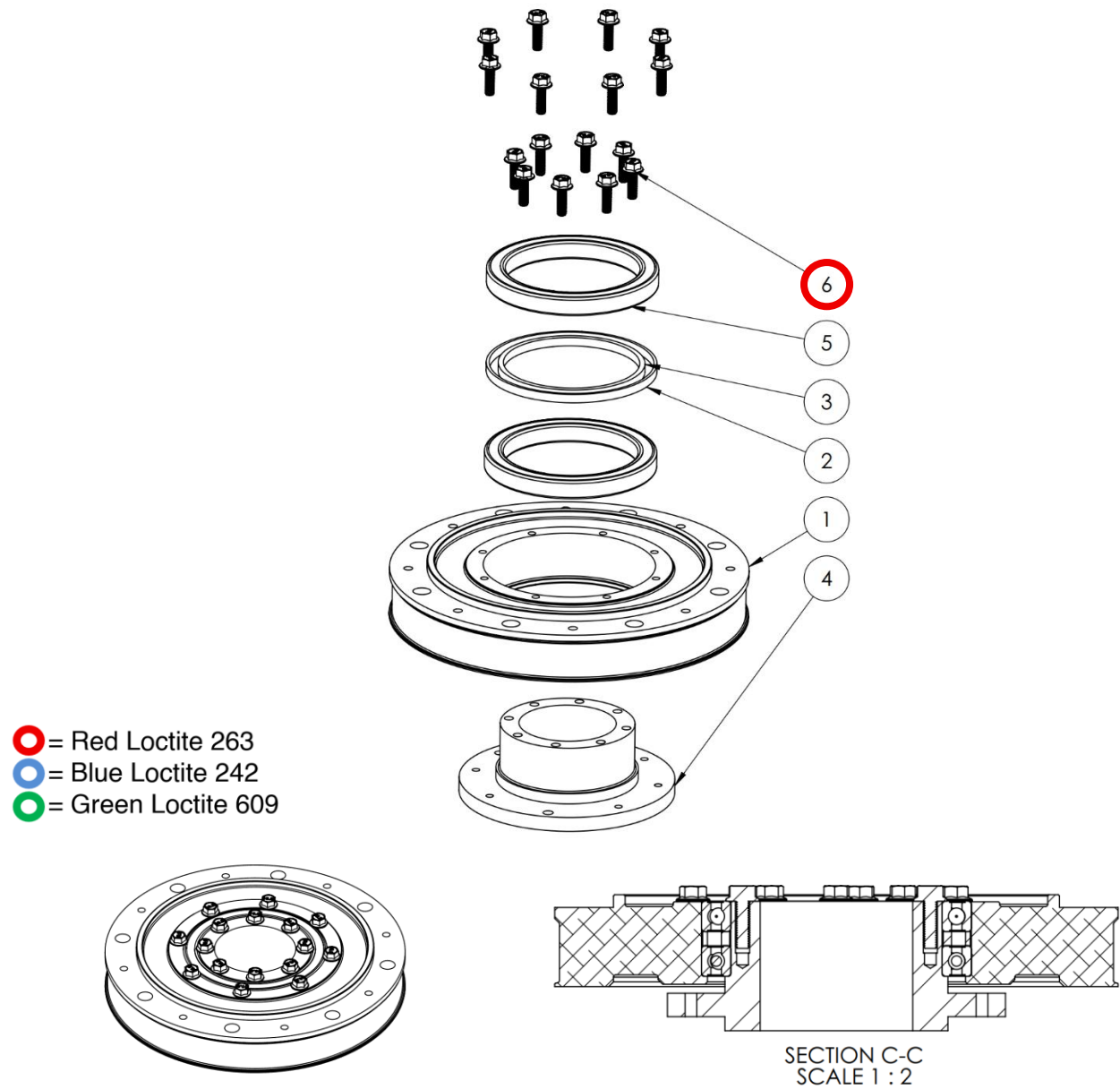
Item No.	Part Number	Description	Qty.
1	BG.45003.00	PLANETARY BEARING HOUSE	1
2	BG.50004.00	SHEAVE RETAINER	1
3	BG.50023.00	PTO SHEAVE	1
4	BG.45025.00	PTO AXLE	1
5	BG.20248.00	BEARING, 513071-2RS	1
6	NB.40.123	RING, INTERNAL RETAINING M60	1
7	NB.13.222	SCREW, FLAT HEAD SOCKET M8-1.25 X 25	1



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

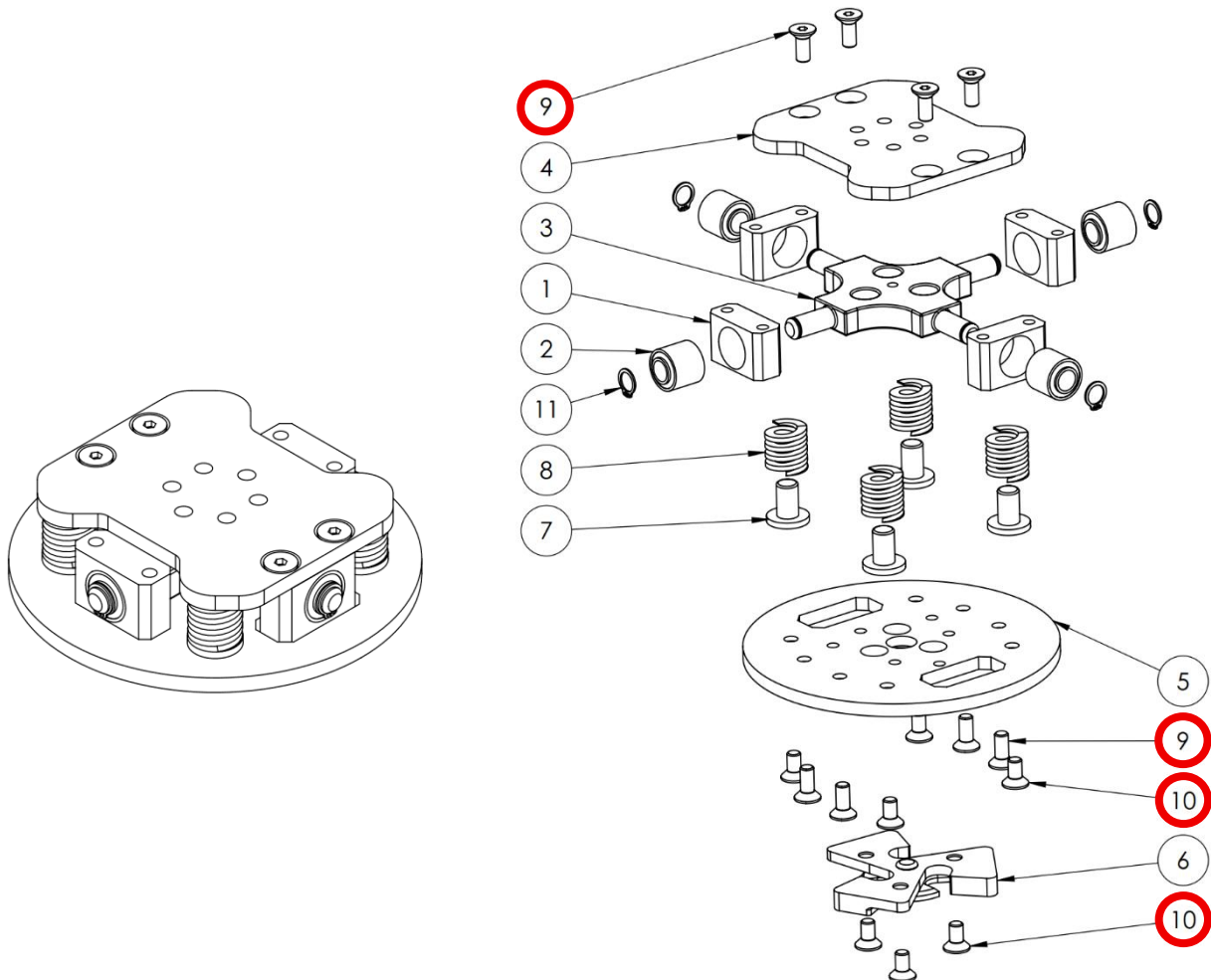
BG.4A001.00 – DRUM SHEAVE ASSEMBLY 5K

Item No.	Part Number	Description	Qty.
1	BG.45032.00	STATIONARY DRUM SHEAVE	1
2	BG.45033.00	OUTTER STAT SHEAVE SPACER	1
3	BG.45034.00	INNER STAT SHEAVE SPACER	1
4	BG.45031.00	MAIN DRUM SHEAVE SPINDLE	1
5	BG.20224.00	BEARING, 6818-2RU KOY	2
6	NB.11.110	SCREW, FLANGED HEX HEAD CAP M6-1 X 20 NON-SERRATED ZINC	16



BG.5000.90 – FLEX HEAD, COMPLETE 5K

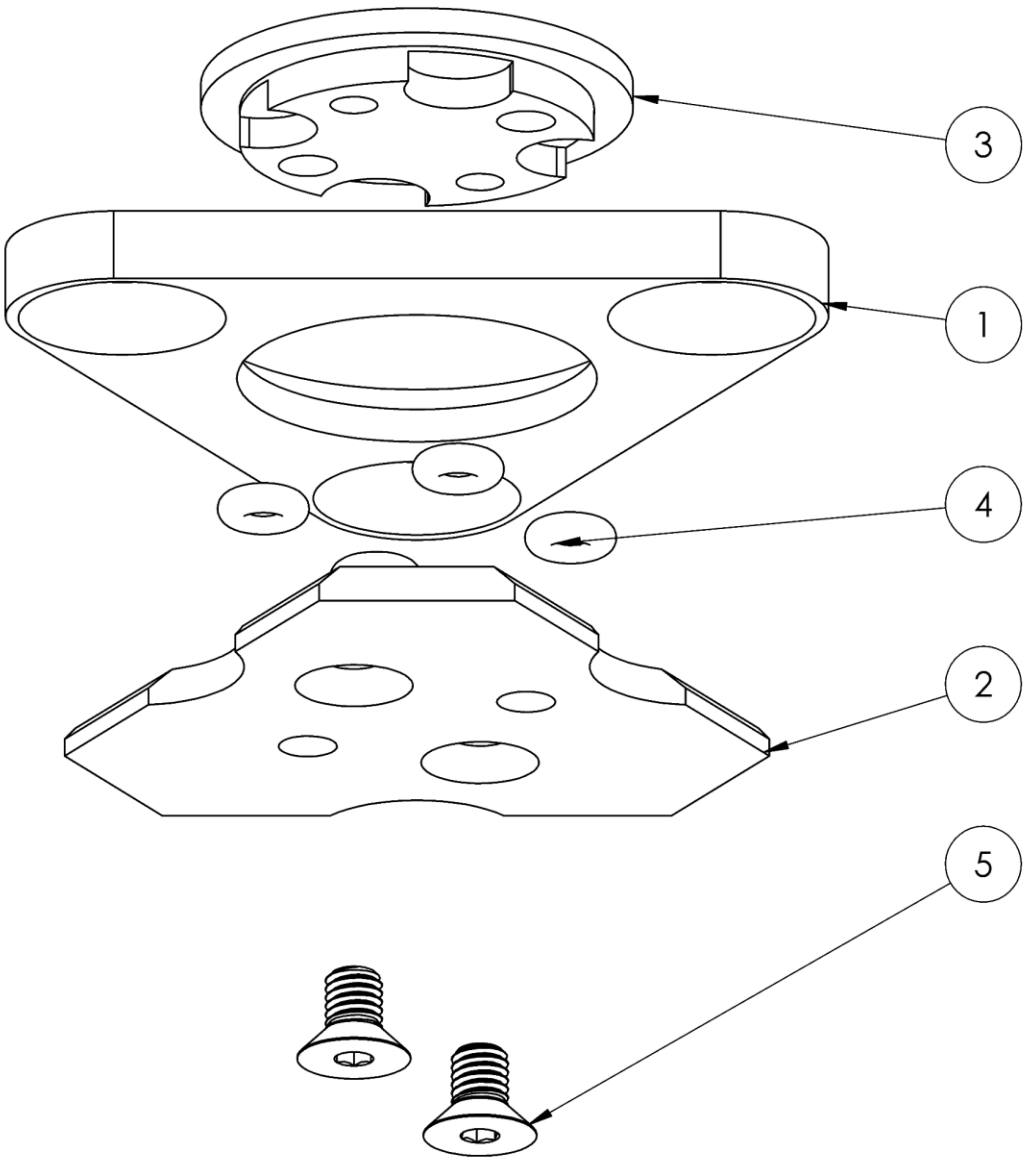
Item No.	Part Number	Description	Qty.
1	BG.20103.00	YOKE, SUSPENSION /BG6K BG8K	4
2	BG.20109.00	BUSHING, YOKE /BG6K BG8K	4
3	BG.20102.01	ELEMENT, CENTER STUDDED	1
4	BG.20100.50	PLATE, DRIVING /BG6K BG8K BG5K	1
5	BG.20101.01	BLANK PLATE, DRIVEN /BG5K BG6K(STEEL)	1
6	BG.20104.25	SHAMROCK LOCK	1
7	BG.20106.25	POST, SPRING /BG6K 8K	4
8	BG.20106.53	SPRING, DIE GREEN /BG5K	4
9	NB.13.218	SCREW, FLAT HEAD SOCKET CAP M8-1.25 X 20	8
10	NB.13.216	SCREW, FLAT HEAD SOCKET CAP M8-1.25 X 16	7
11	NB.40.113	RING, EXTERNAL 1/2"	4



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

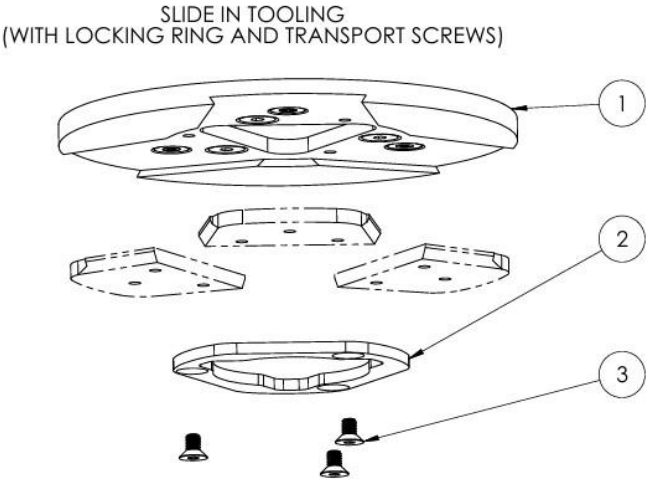
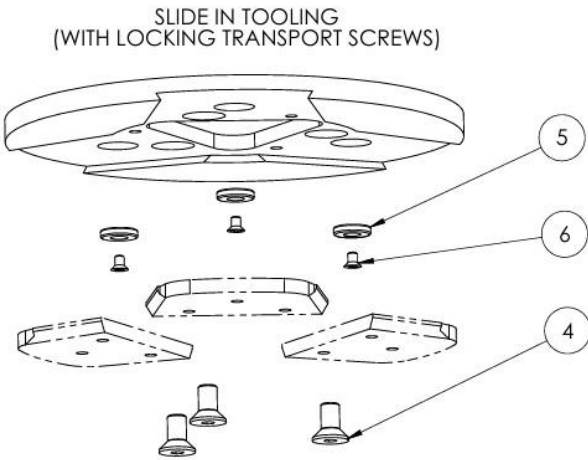
96-0785 - TOOLING TRIANGLE ASSEMBLY – 650 - B

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



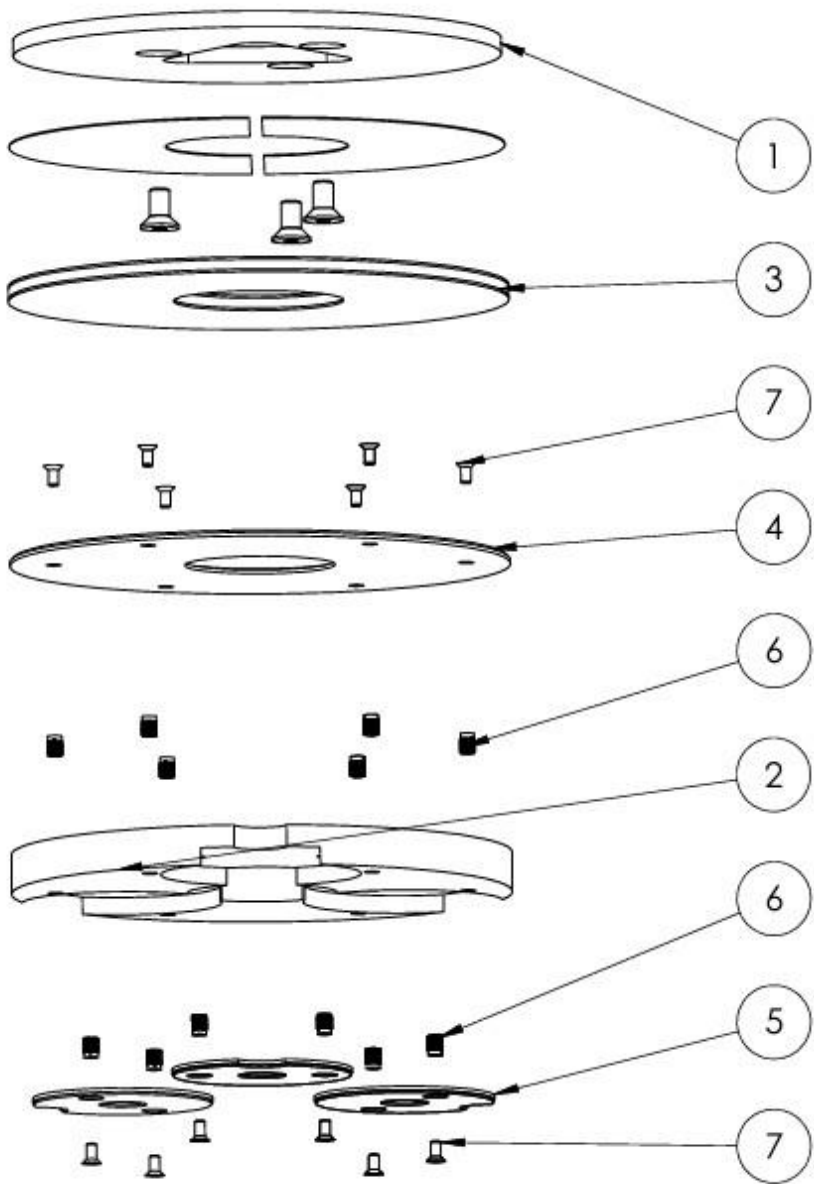
96-0816 - METAL TOOLING KIT – 500 – B

ITEM NO.	PART NUMBER	DESCRIPTION	SLIDE IN QTY.	SLIDE IN WITH RING QTY.
1	51-3419	TOOLING PLATE 500	1	1
2	51-3420	METAL TOOLING RING 500		3
3	12-0680-10	FLAT HEAD SOCKET SCREW - M6X10 - ZINC		3
4	12-0880-16	FLAT HEAD SOCKET SCREW - M8X16 - ZINC	3	3
5	13-0650	METAL TOOLING MAGNET	3	1
6	12-0481-06	FLAT HEAD PHILLIPS SCREW - M4X6 - SS	3	3



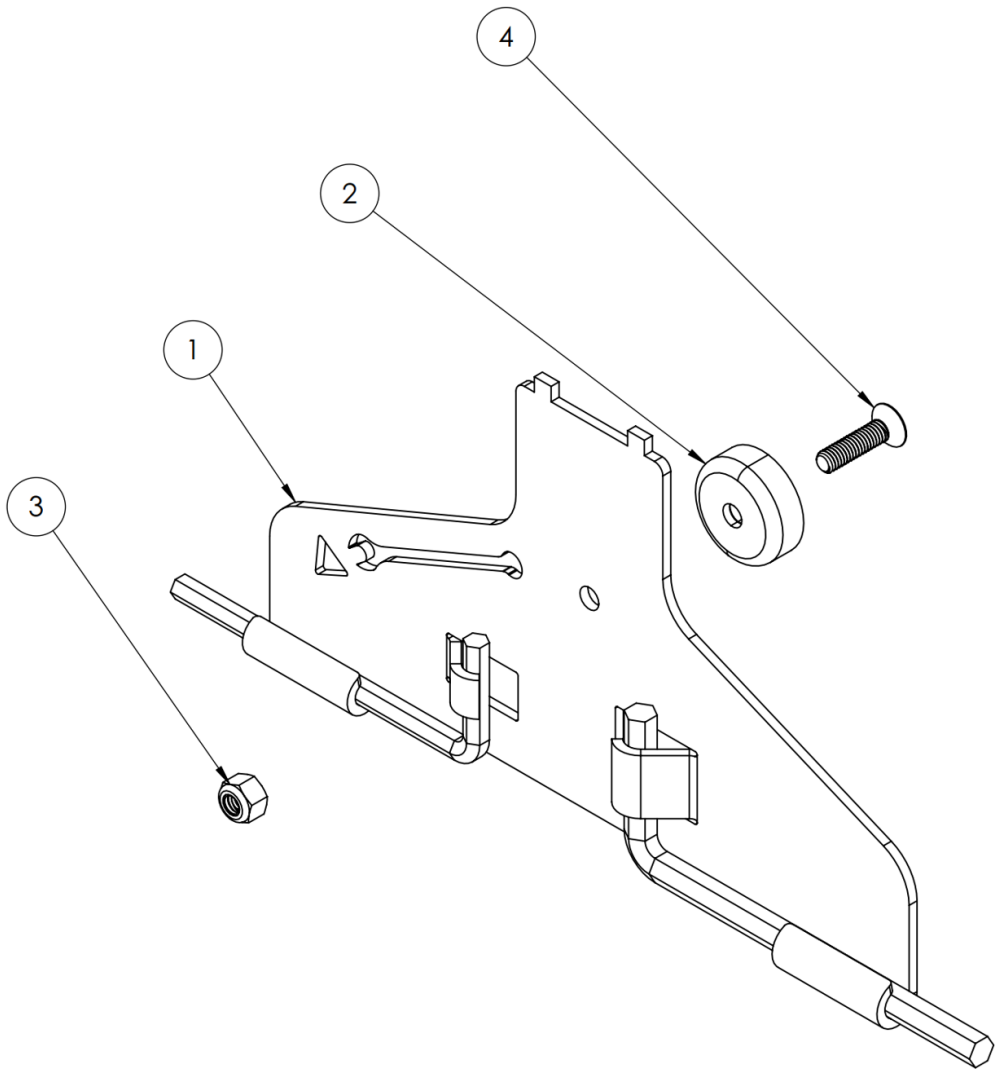
96-0818 - RESIN TOOLING PLATE ASSEMBLY 3IN 500 – A

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	51-3429	RESIN TOOLING PLATE 500	1
2	51-3430	RESIN TOOLING HOLDER 500	1
3	13-0680	FOAM RISER ASSEMBLY 500	1
4	13-0684	RESIN TOOLING VELCRO PLATE 500	1
5	13-0653	RESIN TOOLING PLATE VELCRO 3IN	5
6	13-0654	PRESS-IN INSERT - M4 - BRASS	18
7	12-0480-08	FLAT HEAD PHILLIPS SCREW - M4X8 - ZINC	20
8	13-0679	ADHESIVE/VELCRO LOOP HALF 500	2
9	12-0880-16	FLAT HEAD SOCKET SCREW - M8X16 - ZINC	3



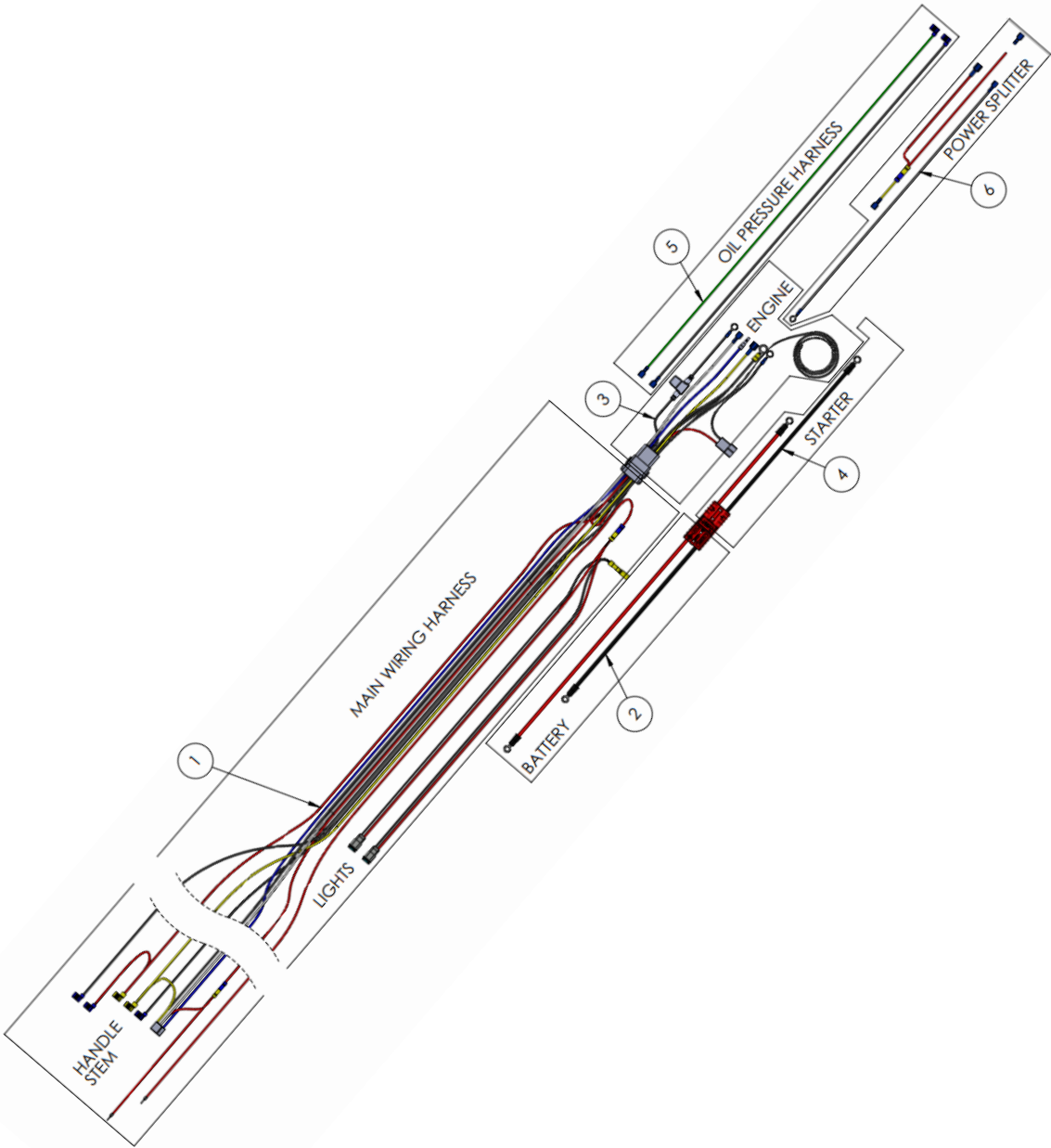
96-0456 – TOOLING WRENCH - B

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

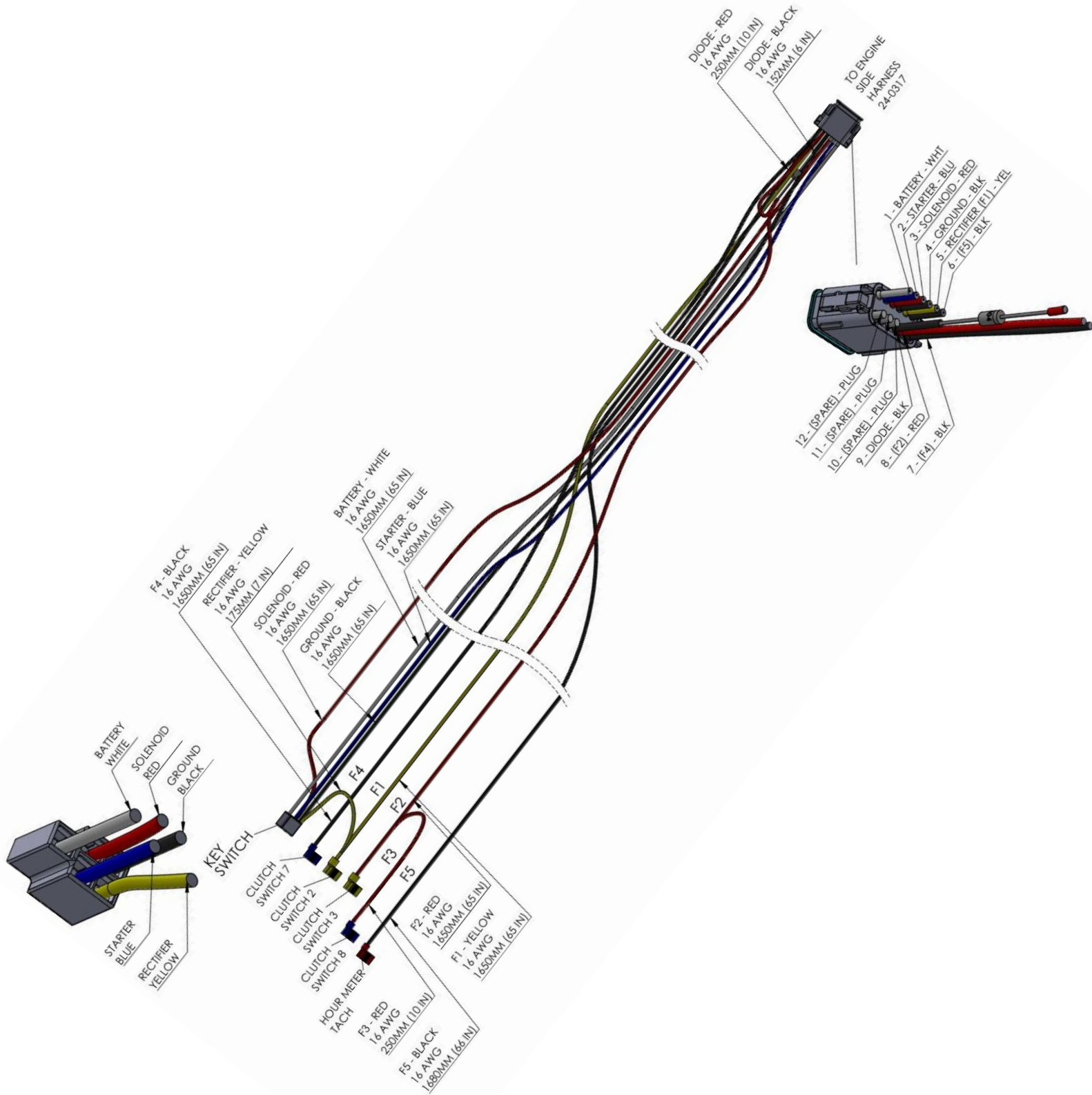


WIRING HARNESS 500PRO KIT

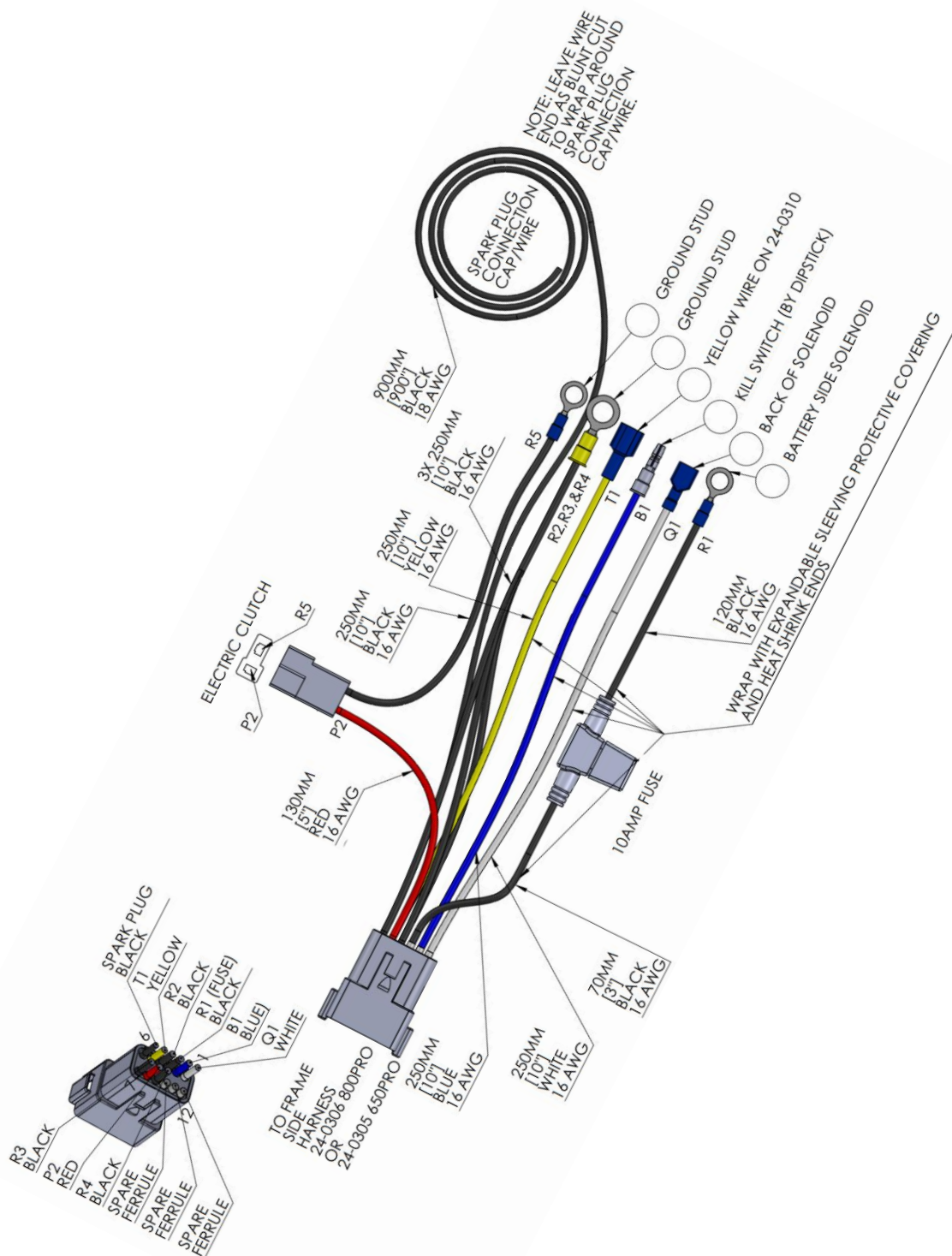
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	24-0328	WIRING HARNESS 500PRO	1
2	24-0332	BATTERY CABLE 1X BATTERY 500PRO	1
3	24-0317	ENGINE SIDE HARNESS 500PRO	1
4	24-0309	BATTERY CABLE ENGINE SIDE 500PRO	1
5	24-0311	OIL PRESSURE HARNESS 500PRO	1
6	24-0310	POWER SPLITTER HARNESS 500PRO	1
7	23-0259	SOFT START CABLE 500PRO	1



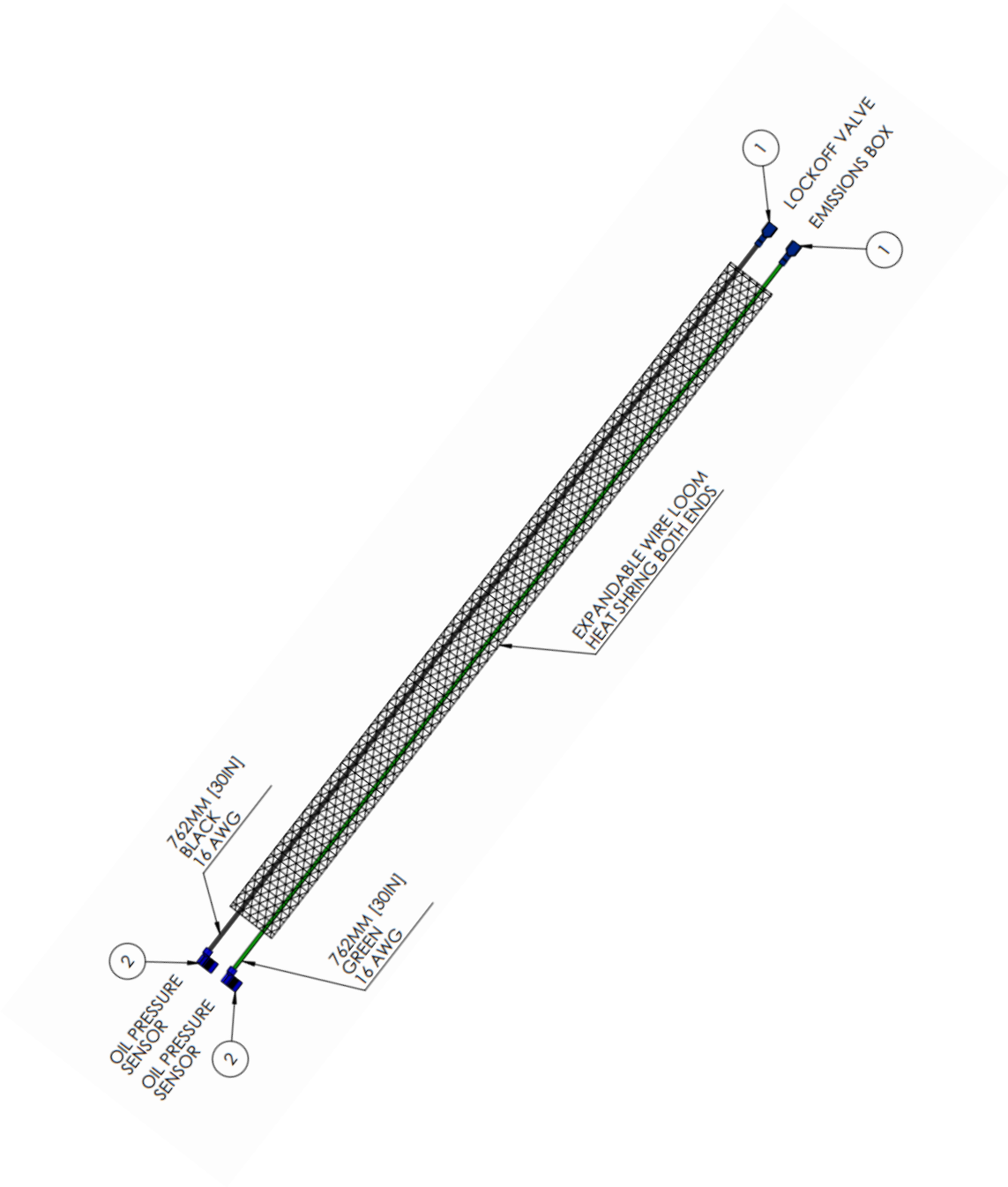
24-0328 – MAIN WIRE HARNESS 500PRO



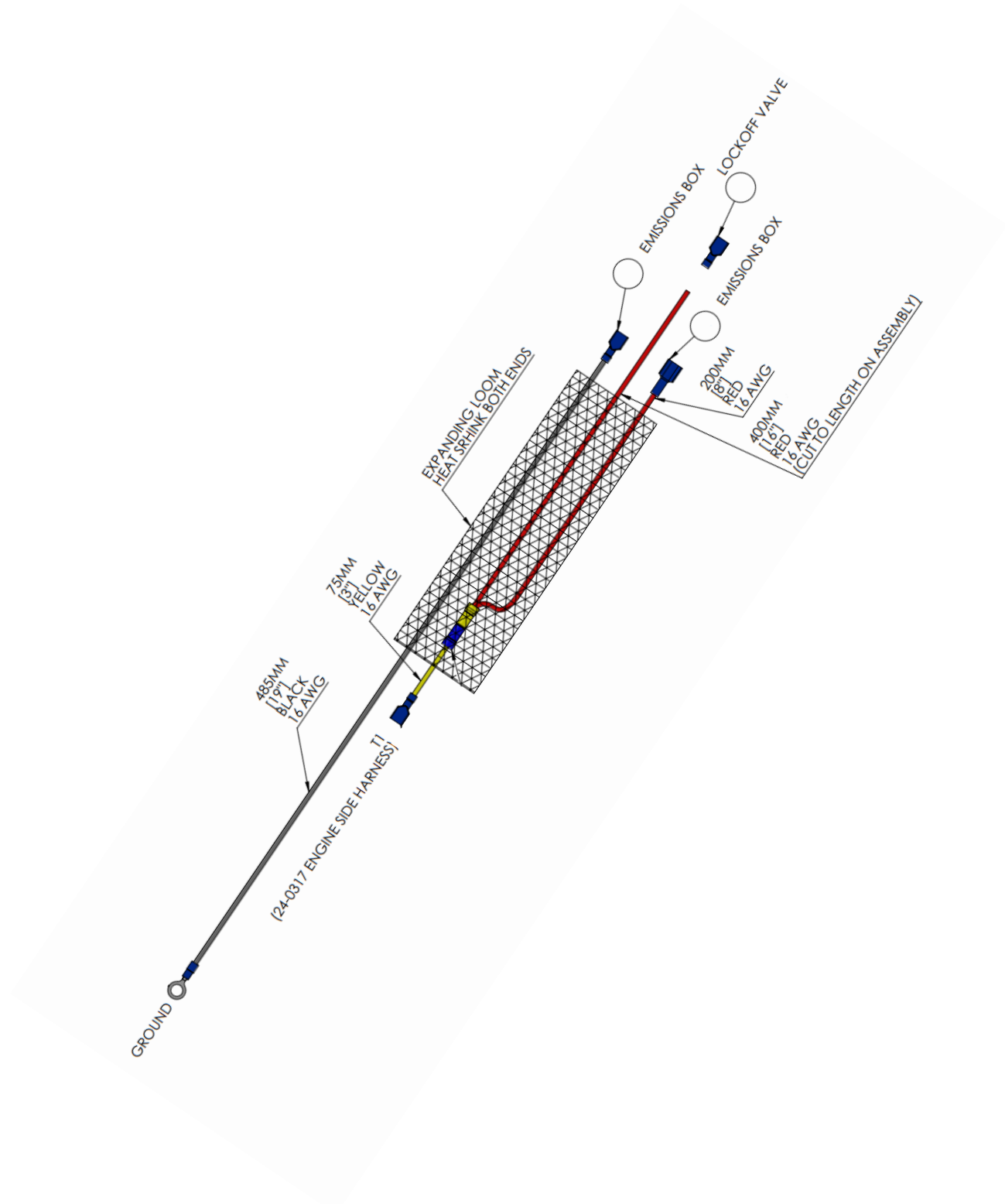
24-0317 – ENGINE SIDE HARNESS 650PRO AND 800PRO/650PRO



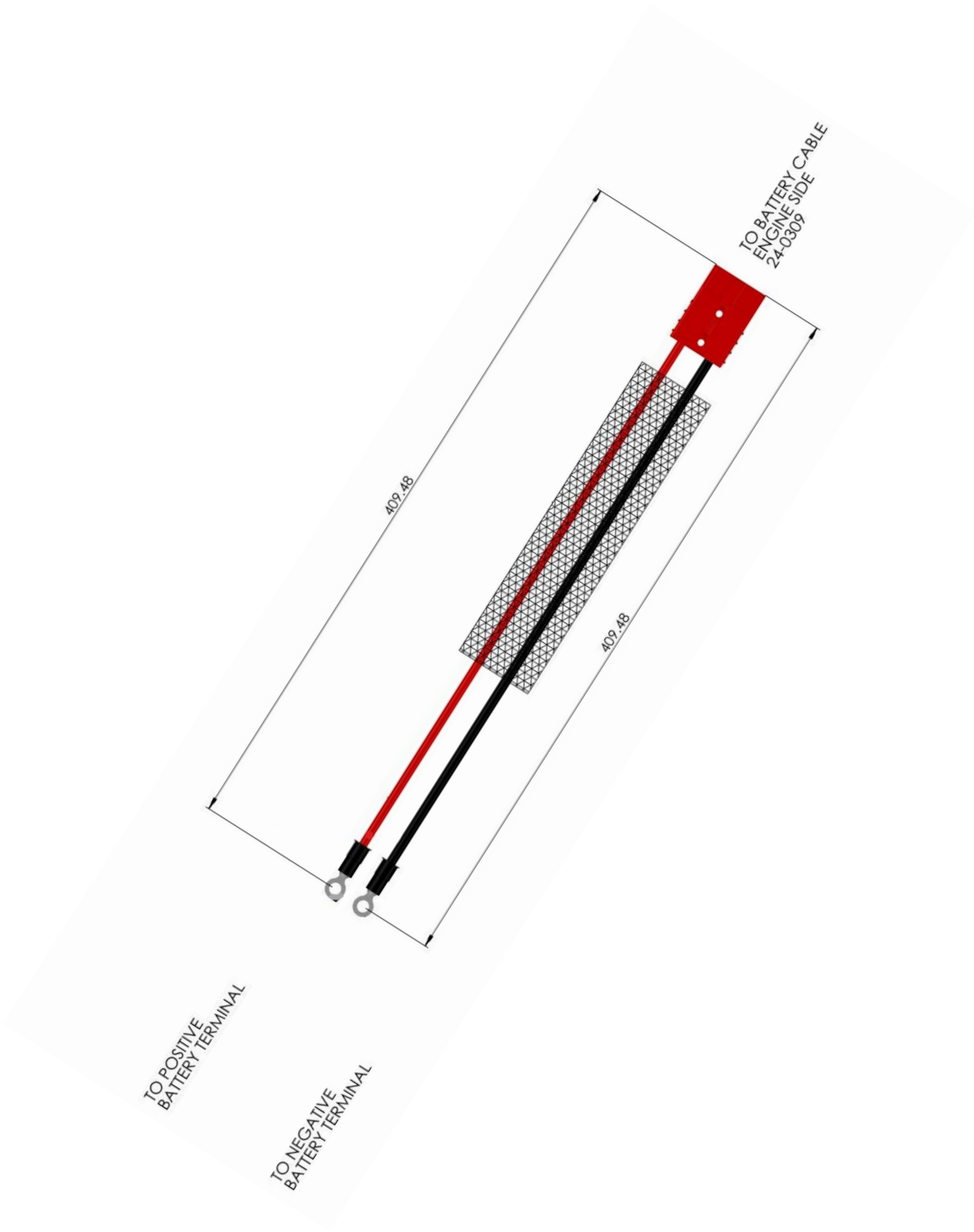
24-0311 – OIL PRESSURE HARNESS 800PRO/650PRO



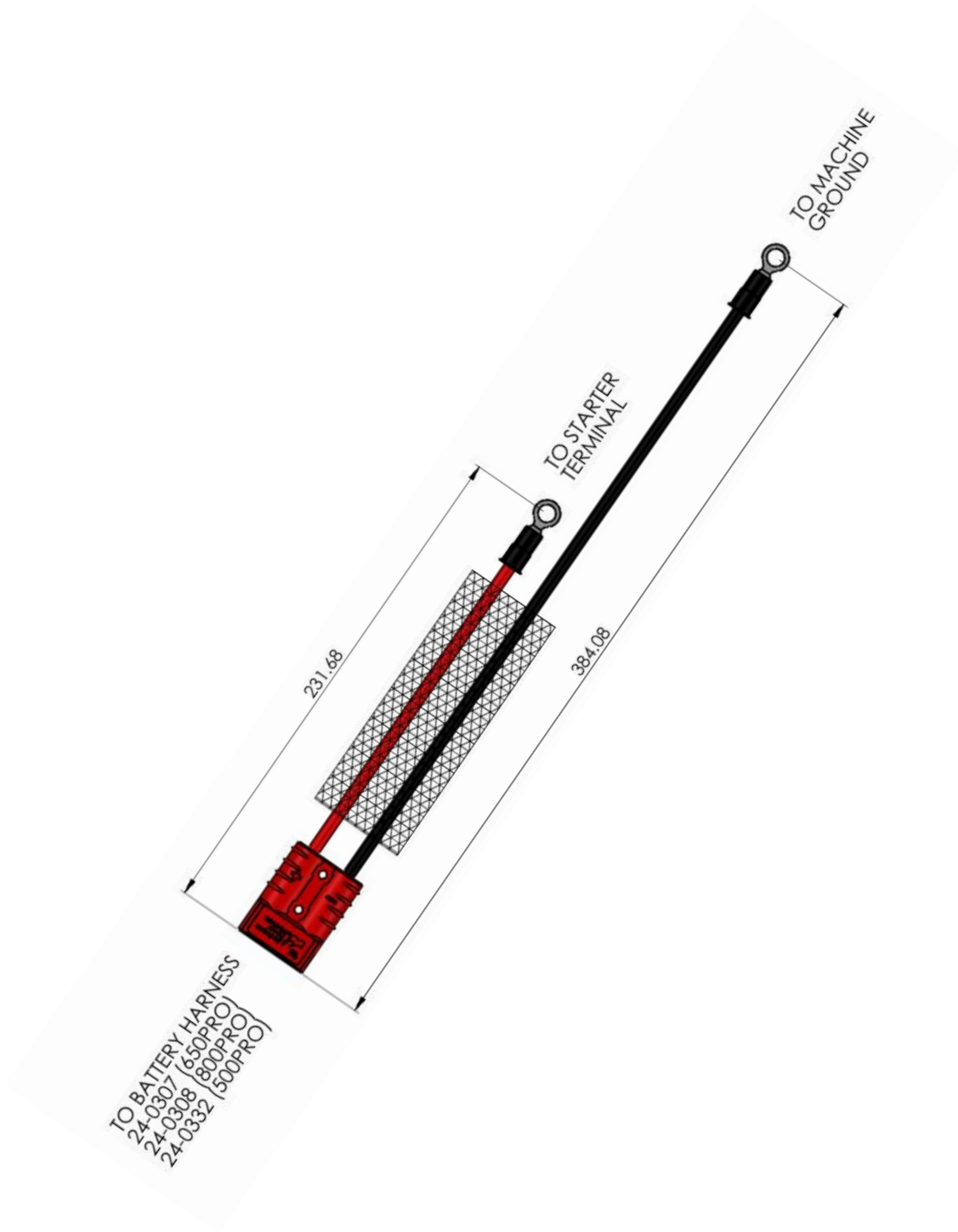
24-0310 – POWER SPLITER HARNESS 800PRO/650PRO



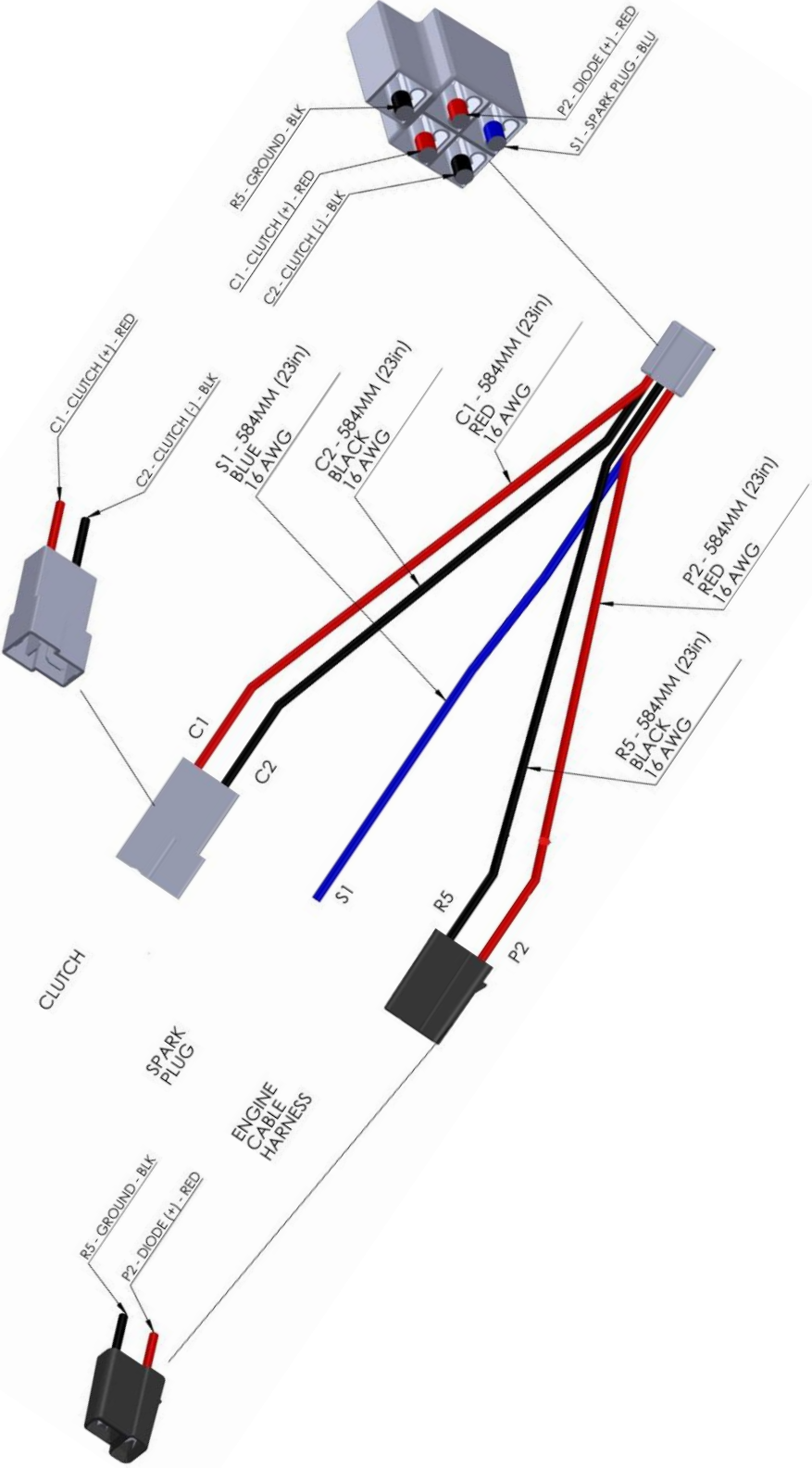
24-0332 – BATTERY CABLE 1X BATTERY 500PRO



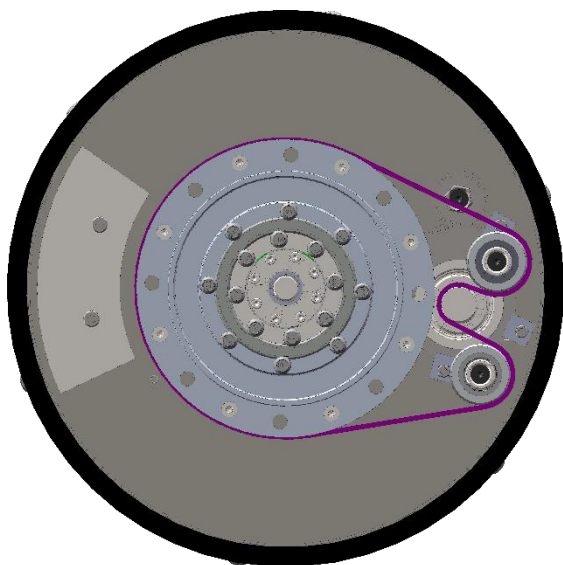
24-0309 – BATTERY CABLE ENGINE SIDE 500 PRO



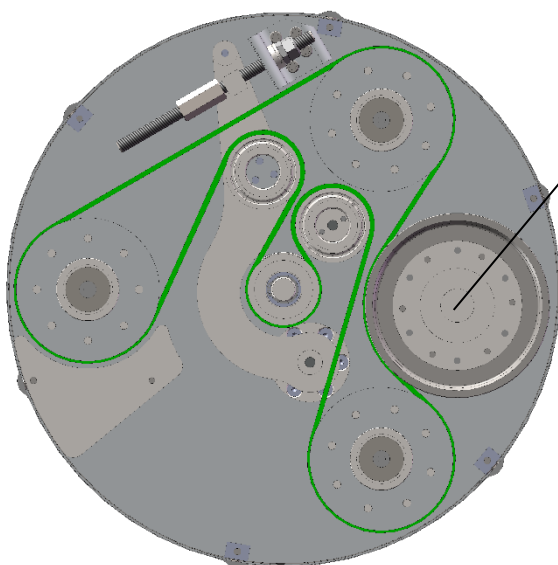
23-0259 – SOFT START CABLE 500PRO



BELT TENSIONS



TOP BELT
BG.45056.00
223 -267 HZ



This sheave is
located on top
assembly.

MAIN BELT
BG.45042.00
121-145 HZ

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CONTRACTOR PROVEN EQUIPMENT SINCE 1946

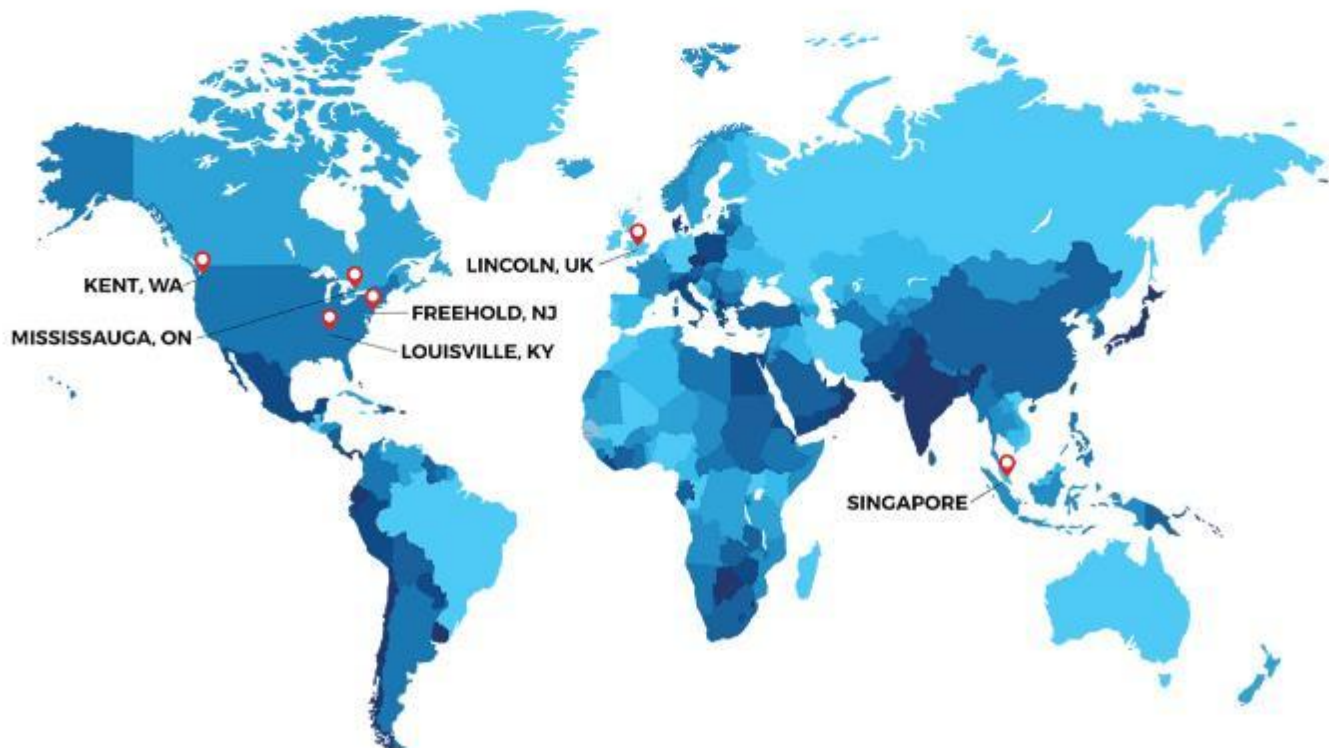


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