

Predator Series Grinder

P650PRO



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**ORIGINAL LANGUAGE OPERATING MANUAL FOR
BARTELL GRINDERS**

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REV.	DATE	DESCRIPTION	APPROVED BY:
A	1/5/2023	Initial Release	JHL
C	6/9/2026	All parts pages updated and 650E pages 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 P650PRO floor grinder safely and correctly.

- P650PRO – 650mm 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 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. 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) 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, maintain 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.
- 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.
- 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

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.



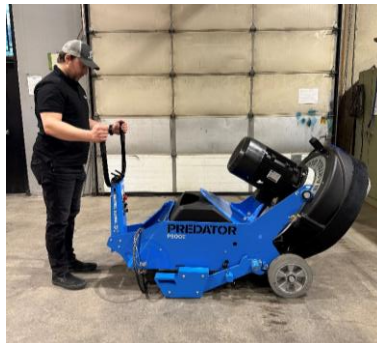
6. Grinder is now ready to roll.



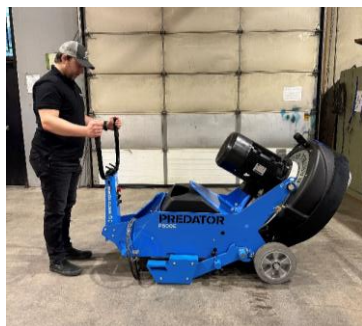
Note: If greater ground clearance is required, (Example: A ramp) remove propane tank before tilting machine back.

To return the grinder back to grinding position.

1. Release swing weights to the ground.

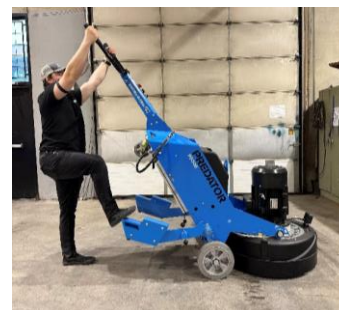


2. Rotate Handle to horizontal position.



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.



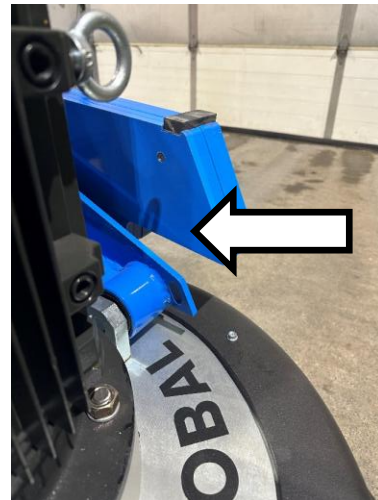
5. Only use OSHA/non-damaged certified lifting equipment

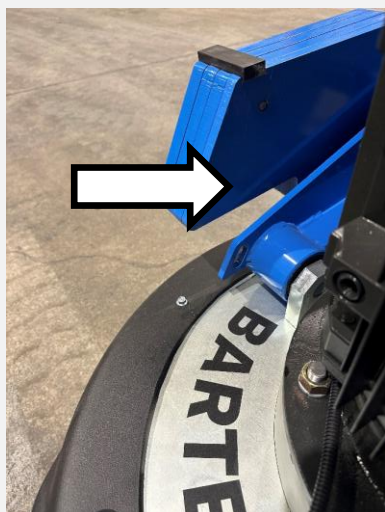
To secure machine for transport

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.

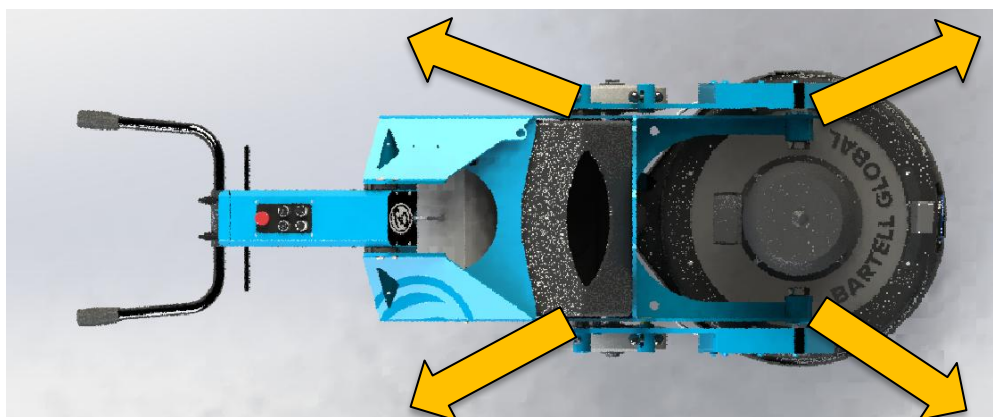


4. Locate 4 marked tie down points
 - a. Do not use any other tie down points.





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.

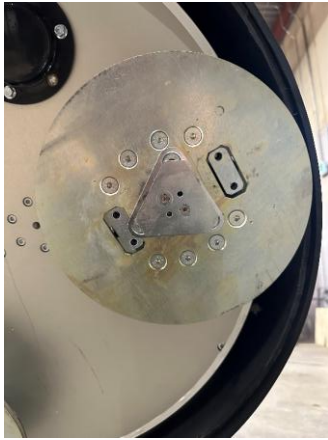
1. Rotate swing weights to rear position by pulling ball handle to release pin.



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



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. Confirm Grinder is in grinding position with handle raised to vertical position.



2. Place lower portion of propane tank onto brackets



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



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



5. Connect propane hose to propane tank and confirm a tight connection.



6. 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. Disconnect propane hose from propane tank.



4. While supporting the propane tank with one hand. Use the other hand to pull up on the latch holding the propane tank in place.



5. Rotate the tank down clear of the latch.

6. Release the propane latch with one hand and use two hands to lift and remove the propane tank from the grinder.



**** 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.

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		○	○	○	○	○
Swing Weight Function	Check	○	○	○	○	○	○
Test Run	Check Operation		○	○	○	○	○
Controls							
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.
- **Lubricate Swing Weight Locking Pin:** It is recommended to spray the swing weight locking pin with a graphite based lubricate to allow pin to move freely. The spring inside the swing weight should engage the holes automatically.

TROUBLESHOOTING

800PRO and 650PRO

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

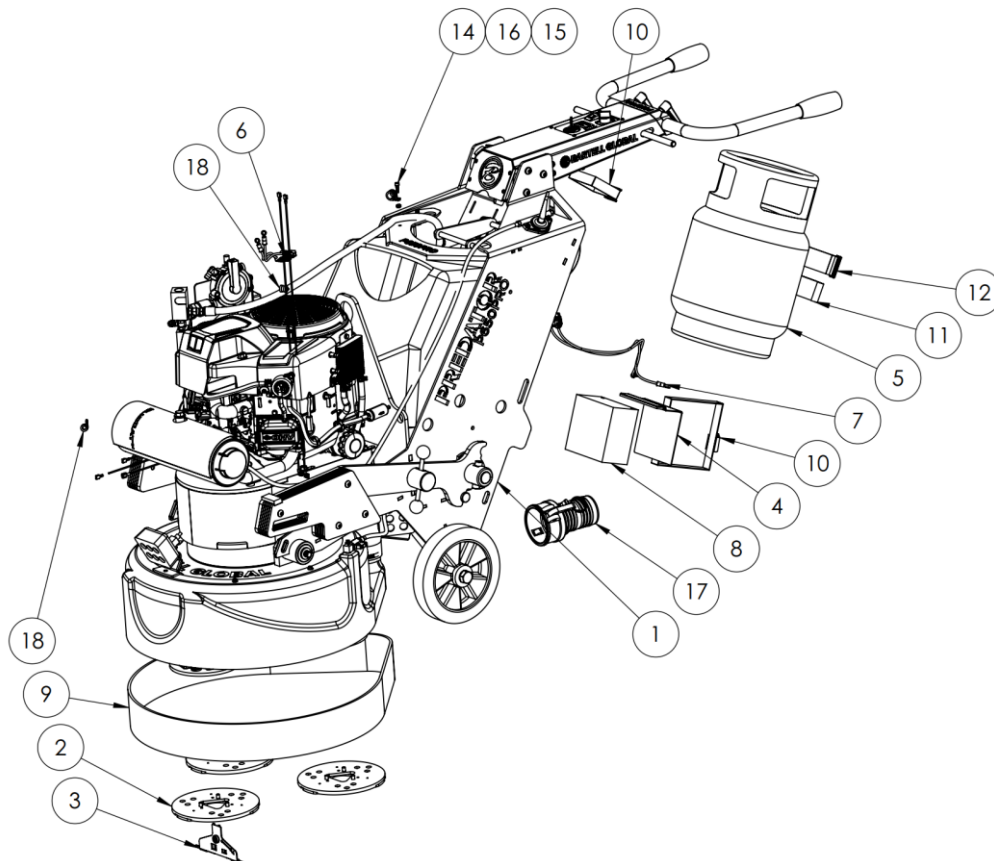
- Universal joint(s) seized
- Spline stripped
- Key(s) sheared

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PARTS

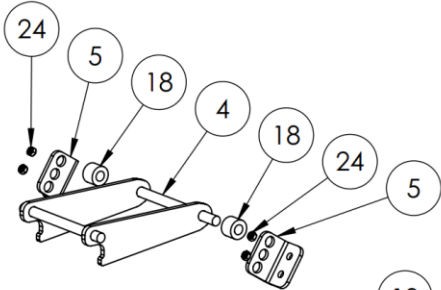
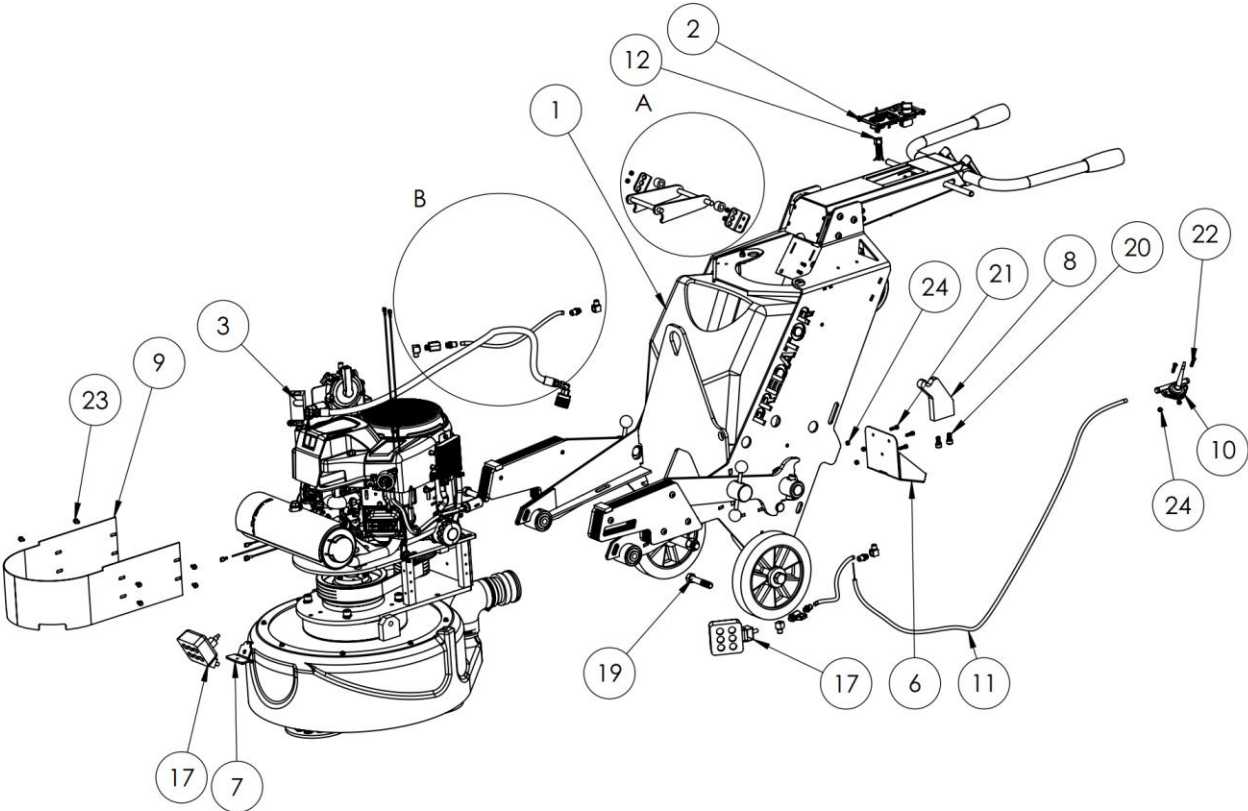
98-0055 - PREDATOR P650PRO GRINDER - H

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	96-0601	PREDATOR P650PRO GRINDER ASSEMBLY	1
2	96-0786	METAL TOOLING KIT 650	3
3	96-0456	TOOLING WRENCH	1
4	96-0807	BATTERY BOX COVER ASSEMBLY	1
5	44-0060	PROPANE TANK VAPOR - 650	1
6	24-0309	BATTERY CABLE ENGINE SIDE 650PRO & 800PRO	1
7	24-0307	BATTERY CABLE 1X BATTERY 650PRO	1
8	23-0235	BATTERY, 12V	1
9	13-0673	DUST COVER - 650	1
10	13-0618	BATTERY STRAP 1"X24"	2
11	13-3326	PROPANE TANK STRAP 2X VELCRO	1
12	13-3327	PROPANE TANK STRAP RING+ VELCRO	1
13	61-0077	PREDATOR 650PRO DECAL KIT	1
14	12-0600-20	SOCKET HEAD CAP SCREW - M6X20 - ZINC	1
15	12-0640	NYLOC NUT - M6 - ZINC	1
16	13-0285-05	Rubber Cushioned Loop Clamp, 5/8"ID,	1
17	VAC.10125	CAM LOCK 3IN FEMALE	1
18	13-0285-03	Rubber Cushioned Loop Clamp, 3/8"ID,	2

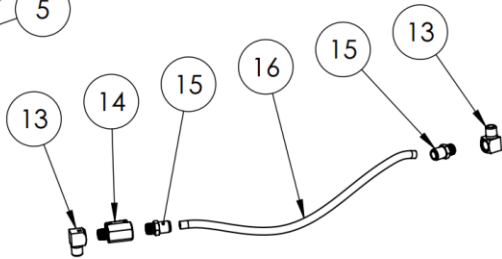


96-0601 - PREDATOR P650PRO GRINDER ASSEMBLY - F

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	96-0603	FRAME ASSEMBLY - 650	1
2	96-0789	SWITCH PANEL - 650PRO	1
3	96-0813	ENGINE CLUTCH BOX DRUM ASSEMBLY 650PRO	1
4	53-0795	PROPANE TANK LATCH - 650	1
5	52-0360	PROPANE TANK LATCH MOUNT - 650	2
6	52-0605	BATTERY BOX	1
7	52-0620	FRONT LIGHT BRACKET - 650	1
8	51-3375	PROPANE SUPPORT PLATE - 650PRO	1
9	51-3395	CLUTCH BOX COVER 650PRO	1
10	43-0405	THROTTLE HANDLE 650 AND 800PRO	1
11	43-0406	THROTTLE CABLE 650 AND 800PRO	1
12	24-0305	WIRING HARNESS 650PRO	1
13	41-0032	FITTING 0.25 NPT MALE TO 0.25 NPT FEMALE 90 DEG BRASS	4
14	41-0051	BALL VALVE MALE 0.25 NPT FEMALE 0.25 NPT	2
15	41-0052	PUSH-TO-CONNECT 0.25 NPT 0.38 TUBE	4
16	41-0053	WATER TUBE CLEAR 0.38 OD	2
17	23-0240	LIGHT 12V FLOOD	2
18	13-0671	PROPANE TANK LATCH SPACER - 650	2
19	11-0376	HEX HEAD SCREW 40671 X 3.5" ZINC	2
20	12-1000-20	SOCKET HEAD CAP SCREW - M10X20 - ZINC	2
21	12-0600-20	SOCKET HEAD CAP SCREW - M6X20 - ZINC	7
22	12-0610-30	BUTTON HEAD CAP SCREW - M6X30 - ZINC	2
23	12-0660-12	SERRATED - M6X12 - ZINC	8
24	12-0640	NYLOC NUT - M6 - ZINC	9



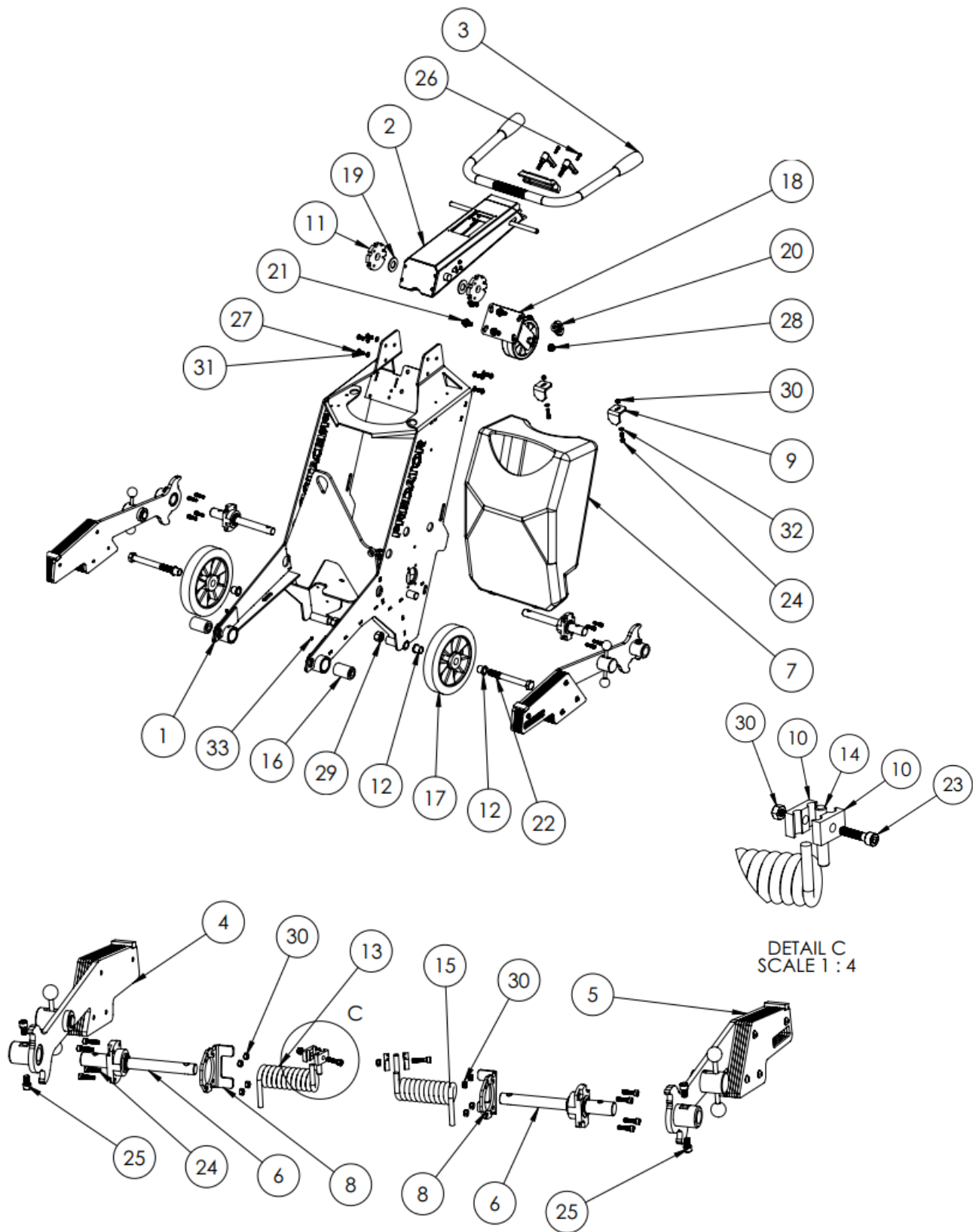
PROPANE TANK LATCH
DETAIL A
SCALE 1 : 7



TANK TO DRUM HOSE CONNECTION
DETAIL B
SCALE 1 : 7
RIGHT SAME AS LEFT

96-0603 - FRAME ASSEMBLY – 650 - D

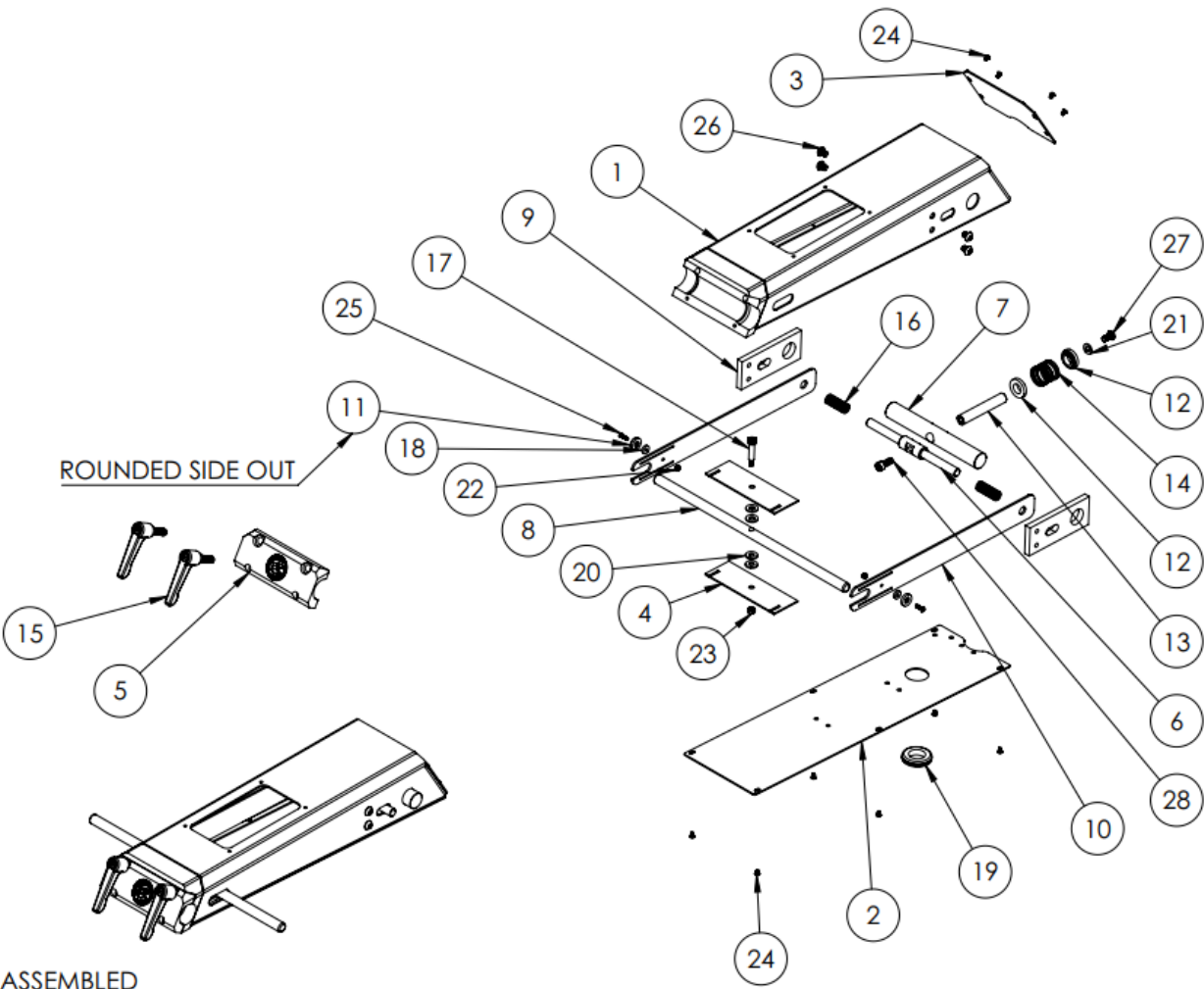
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	53-0792	FRAME WELDMENT - 650	1
2	96-0725	HANDLE ASSEMBLY	1
3	96-0720	BG HANDLE	1
4	96-0475	SWING WEIGHT ASSEMBLY LEFT - 650	1
5	96-0470	SWING WEIGHT ASSEMBLY RIGHT - 650	1
6	96-0469	SWING WEIGHT BUSHING ASSEM	2
7	54-0050	WATER TANK - 650	1
8	52-0614	INNER SPRING 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

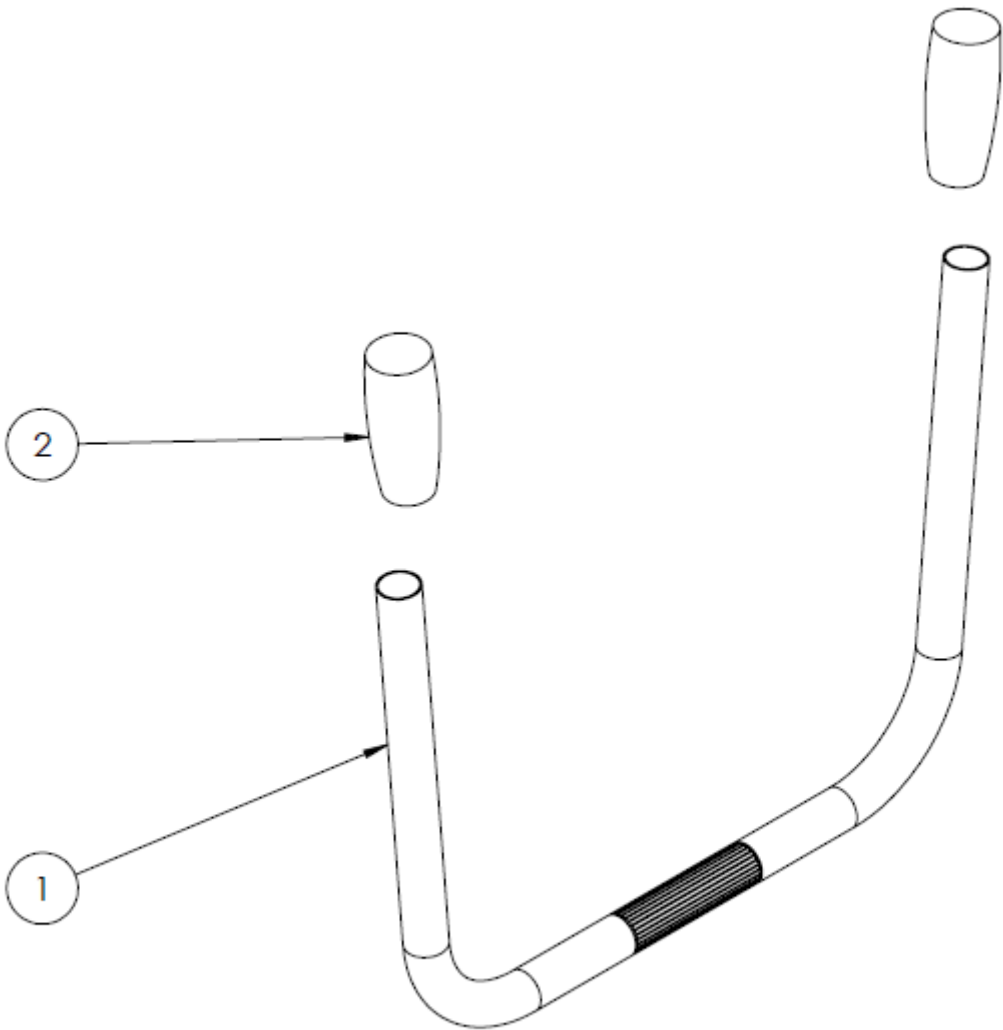
96-0725 - HANDLE ASSEMBLY – 650 AND 800 - G

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

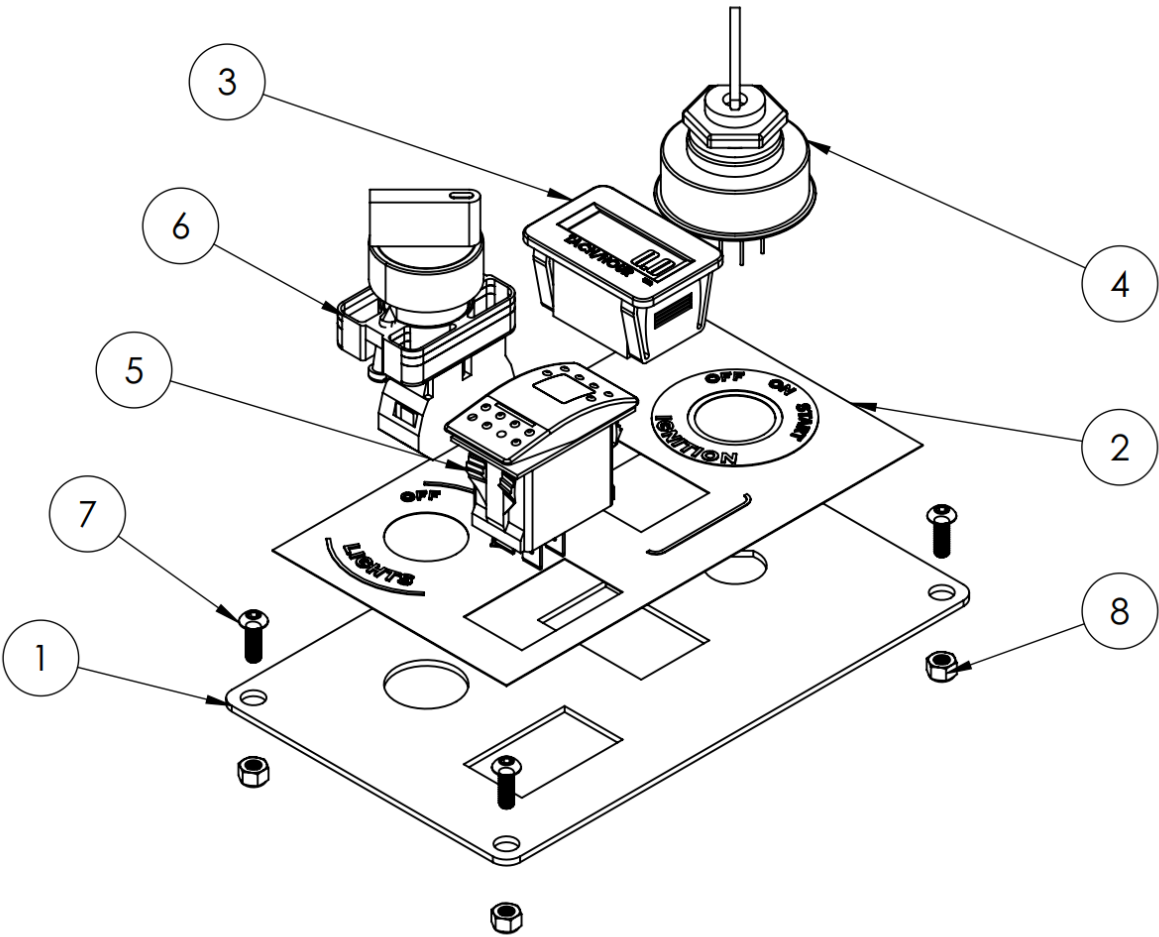
ITEM NO.	Part Number	DESCRIPTION	QTY.
1	53-0797	BG HANDLEBAR WELDMENT	1
2	13-0560	BG HANDLE END GRIP	2



96-0789 - SWITCH PANEL – 650PRO - D

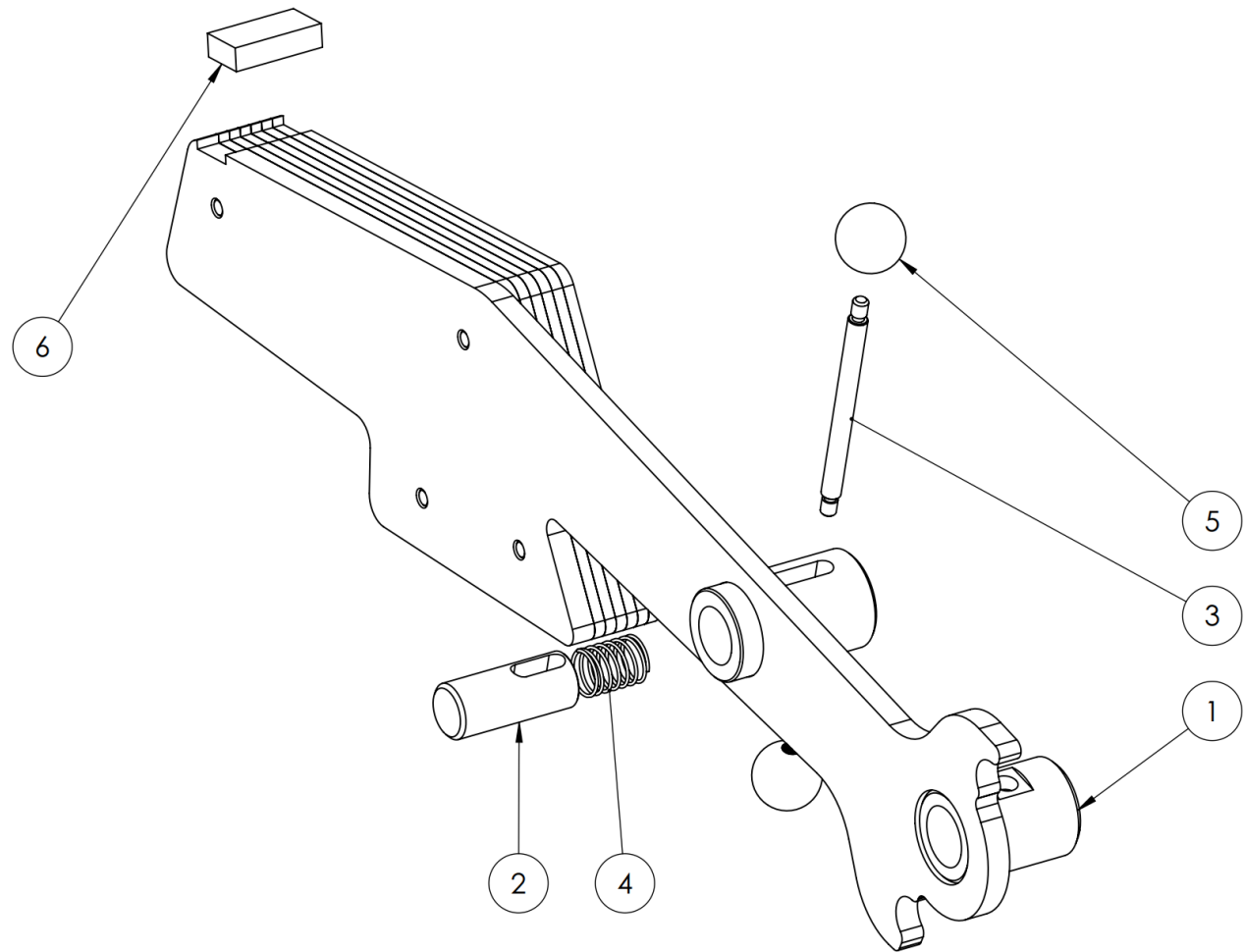
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	52-0607	SWITCH PLATE DECAL	1
2	61-0079	SWITCH PLATE DECAL	1
3	22-0101	HOUR/TACH DIGITAL METER	1
4	22-0102	IGNITION SWITCH 650PRO	1
5	22-0103	SWITCH LIGHTED 4 PIN	1
6	22-0104	SWITCH TWO POSITION	1
7	12-0410-12	BUTTON HEAD CAP SCREW - M4X12 - ZINC	4
8	12-0440	NYLOC NUT – M4 - ZINC	4

Note: Machines before 745513 should order key switch 22-0110 instead of 22-0102



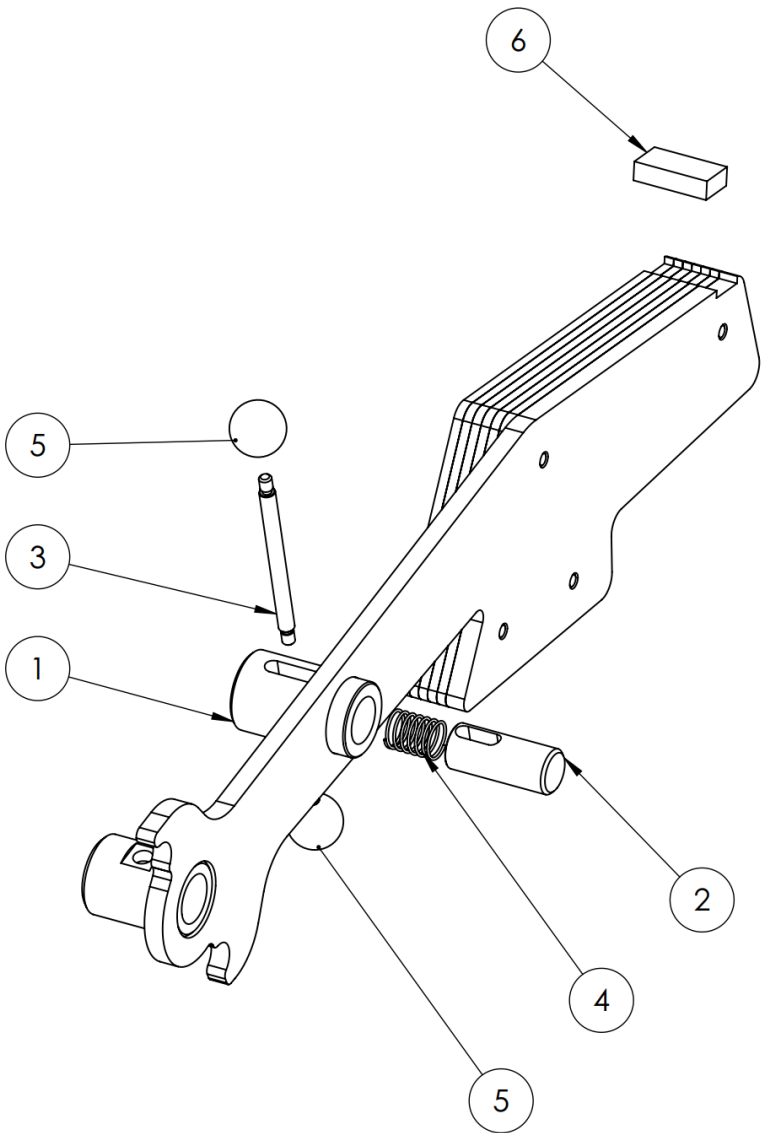
96-0470 - SWING WEIGHT ASSEMBLY RIGHT – 650 - F

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



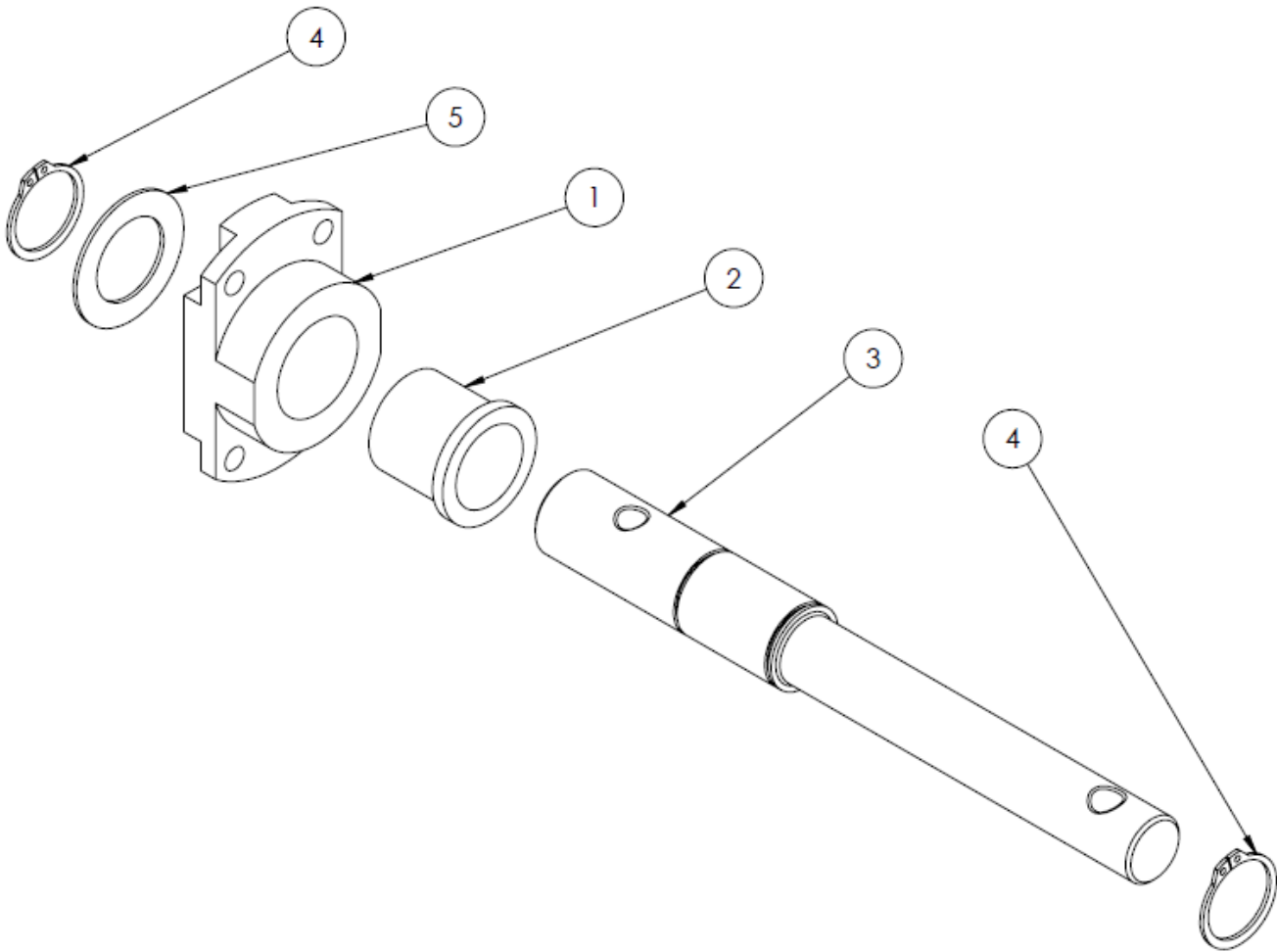
96-0475 - SWING WEIGHT ASSEMBLY LEFT – 650 - F

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



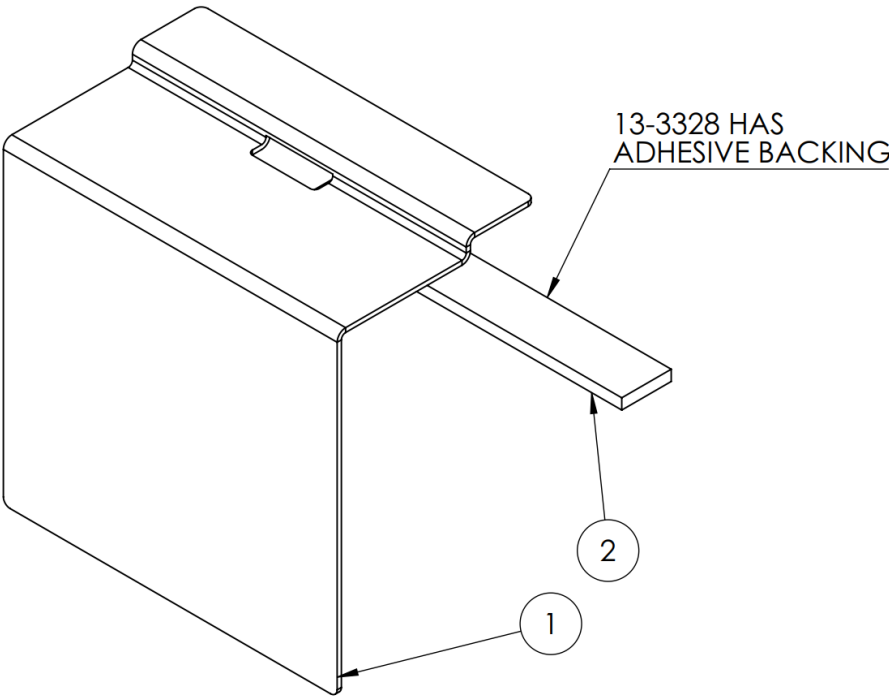
96-0469 - SWING WEIGHT BUSHING ASSEMBLY - B

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



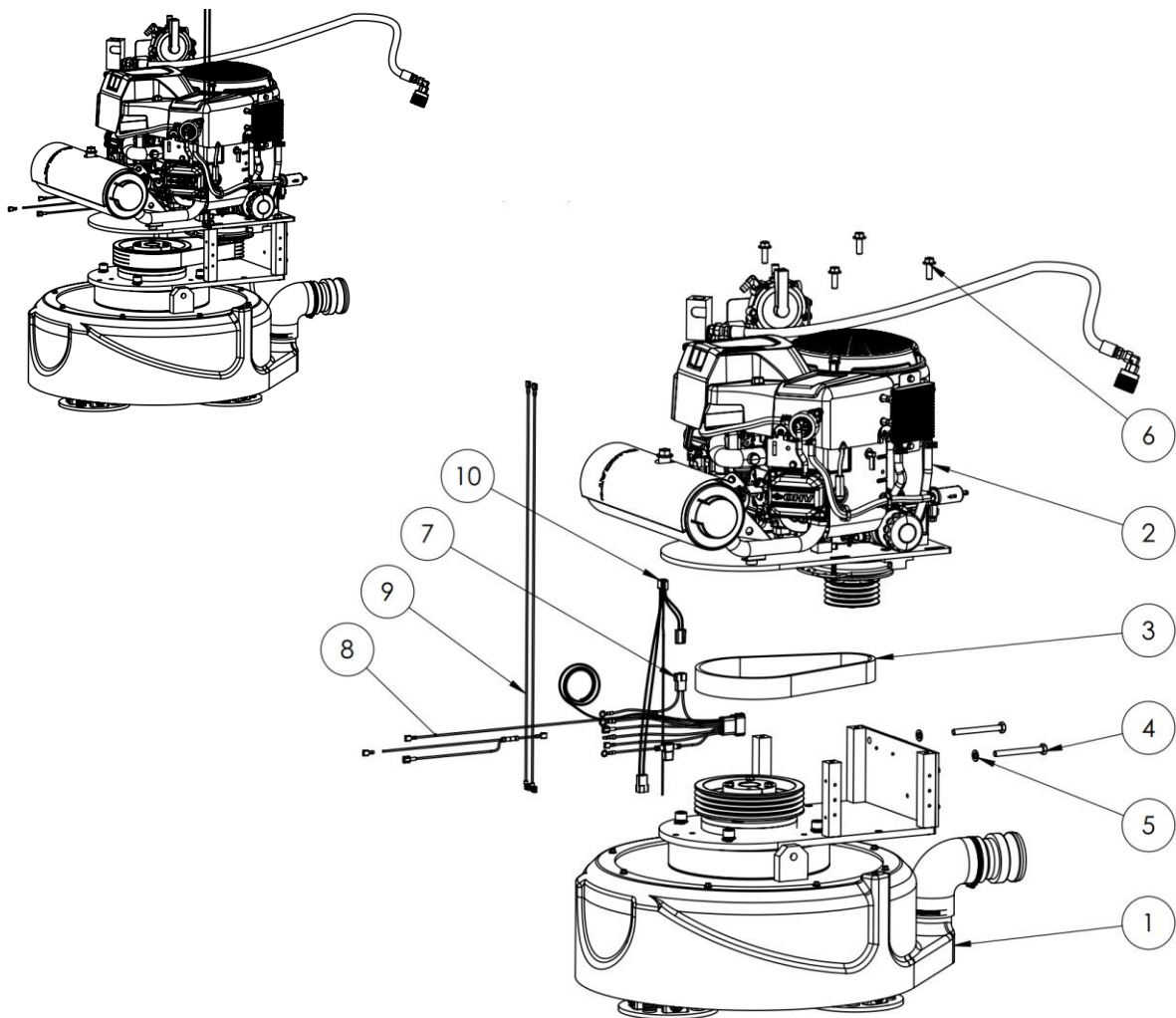
96-0807 - BATTERY BOX COVER ASSEMBLY - B

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	52-0630	BATTERY BOX COVER	1
2	13-3328	BATTERY COVER FOAM	6IN



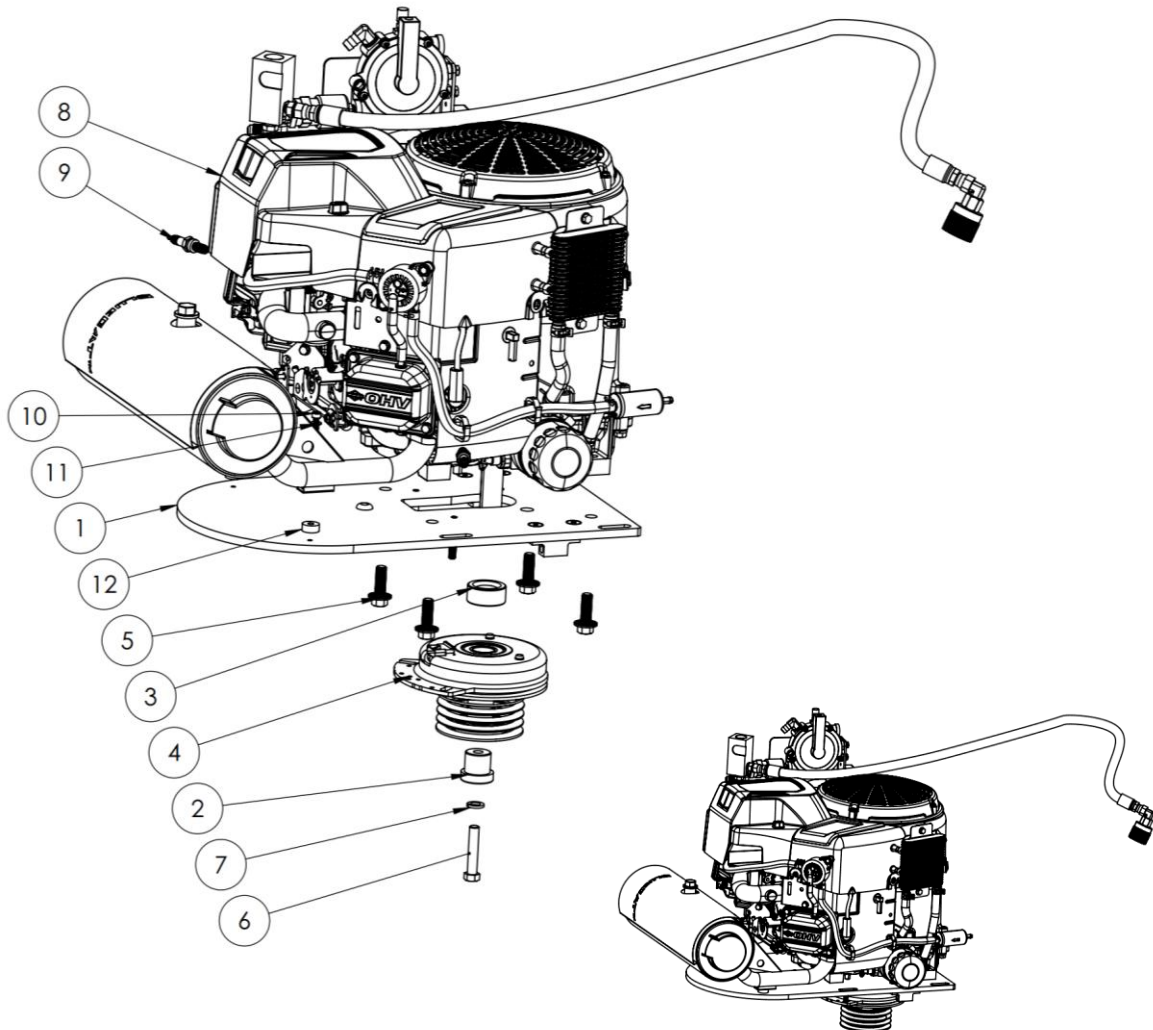
96-0813 - ENGINE CLUTCH BOX DRUM ASSEMBLY 650PRO - B

ITEM NO.	Part Number	DESCRIPTION	QTY.
1	96-0812	DRUM CLUTCH BOX SUB ASSEMBLY 650PRO	1
2	96-0760	DRIVE ASSEMBLY 650PRO	1
3	13-0708	BELT, 4-3VX 355 GATES 650PRO	1
4	12-1020-100	HEX HEAD CAP SCREW M10-1.5 X 100 - ZINC	2
5	12-1050	WASHER, FLAT M10 ZINC	2
6	12-1060-30	SCREW, FLANGED HEX HEAD CAP SERRATED M10-1.5 X 30 ZINC	4
7	24-0317	ENGINE SIDE HARNESS 650PRO AND 800PRO	1
8	24-0310	POWER SPLITTER HARNESS 800PRO/650PRO	1
9	24-0311	OIL PRESSURE HARNESS 800PRO/650PRO	1
10	23-0251	SOFT START HARNESS 650PRO	1



96-0760 - DRIVE ASSEMBLY - 650PRO - D

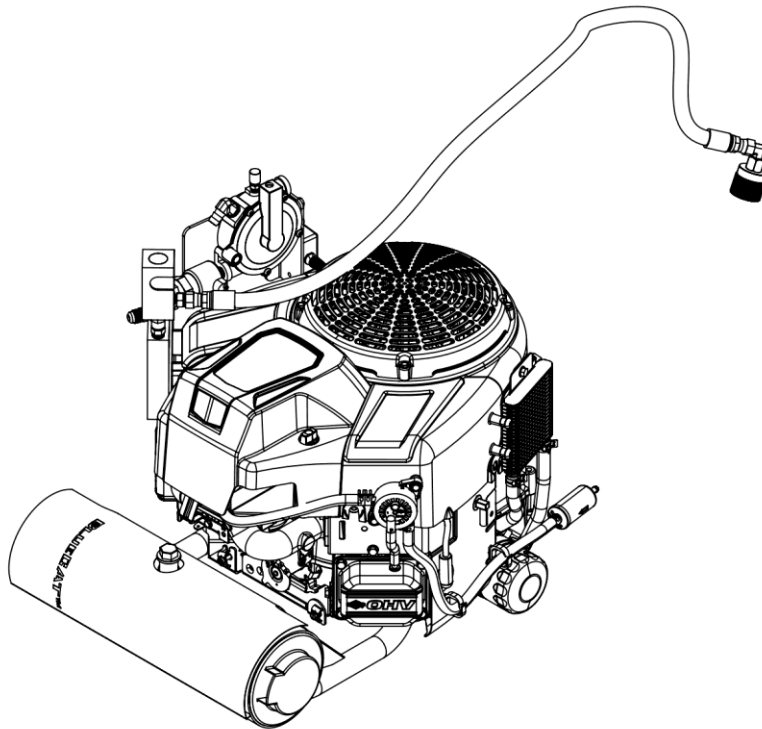
ITEM NO.	Part Number	DESCRIPTION	QTY.
1	96-0764	ENGINE MOUNT PLATE SUB ASSEM - 650PRO	1
2	51-3398	CLUTCH CAP 650PRO	1
3	51-3397	CLUTCH SPACER 650PRO	1
4	13-3320	CLUTCH MS WARNER ELECTRIC 650PRO	1
5	12-1260-35	HEX HEAD SERRATED - M12X35 - ZINC	4
6	11-0388	SCREW, HEX 7/16-20 X 2-1/4 GRADE 8	1
7	11-0378	LOCK WASHER - 7/16" - ZINC	1
8	43-0470	810CC BRIGGS COMMERCIAL ENGINE KIT	1
9	43-0430	NGK SPARK PLUG 810	2
10	12-0600-20	SOCKET HEAD CAP SCREW - M6X20 - ZINC	2
11	12-0035-06	FLAT WASHER, M6	2
12	13-3354	SPACER 20 ODX7 ID X 8.5 T SS	2



43-0740 - 810CC BRIGGS COMMERCIAL ENGINE KIT (2026)

Machine Serial numbers after 745512 (and 745327)

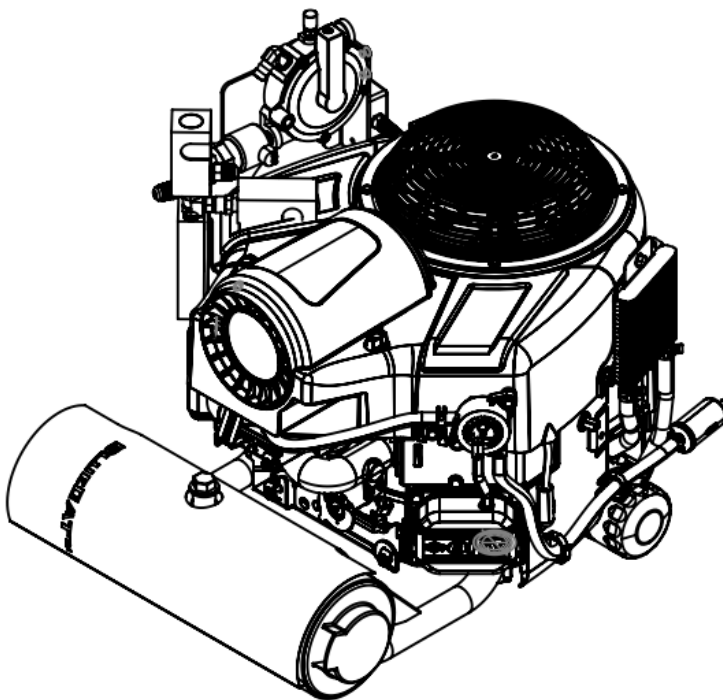
ITEM NO.	Part Number	DESCRIPTION	QTY.
	43-0486	PROPANE HOSE - HIGH PRESSURE 60 IN	1
	41-0050	QUICK DISCONNECT - 1 1/4 IN ACME RH X 1/4 NPT	1
		BRASS 45 ELBOW 3/8 SAE X 1/4 NPT	1
		PROPANE REGULATOR ASSEMBLY (PRE-SET 810)	1
	43-0487	PROPANE HOSE - HIGH PRESSURE - 21 IN	2
		PROPANE HOSE - LOW PRESSURE - 1/2 X 30 IN	1
	43-0435	SWITCH - OIL PRESSURE	1
	43-0434	ANALYZER - EMISSION DATA	1
	43-0418	B-S FILTER-OIL	1
		B-S FILTER - AIC CARTRIDGE	1
	43-0430	SPARK PLUG	1
	43-0446	VALVE - INLINE FILTER SHUT-OFF	1
	43-0451	O2 SENSOR	1
	43-0471	MUFFLER - CATALYTIC 656 & 810 CC BRIGGS - SLIM	1
	43-0491	LIQUIDNATOR	1
	43-0447	BULK HEAD LIQUIDNATOR	1
	43-0494	OIL DRAIN HOSE	1
		SOLENOID	
		STARTER	1



43-0740 - 810CC BRIGGS COMMERCIAL ENGINE KIT

Machine Serial numbers after 745093 and before 745513

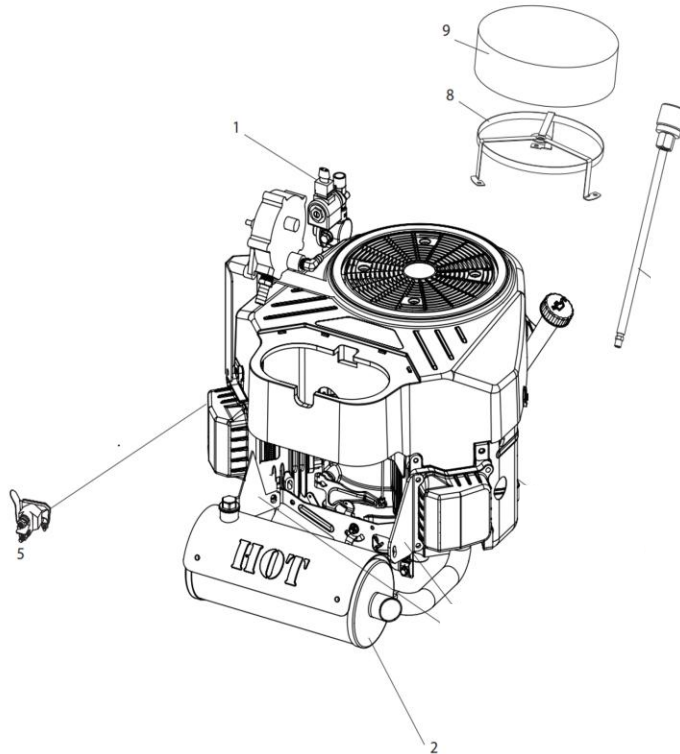
ITEM NO.	Part Number	DESCRIPTION	QTY.
	43-0486	PROPANE HOSE - HIGH PRESSURE 60 IN	1
	41-0050	QUICK DISCONNECT - 1 1/4 IN ACME RH X 1/4 NPT	1
		BRASS 45 ELBOW 3/8 SAE X 1/4 NPT	1
		PROPANE REGULATOR ASSEMBLY (PRE-SET 810)	1
	43-0487	PROPANE HOSE - HIGH PRESSURE - 21 IN	2
		PROPANE HOSE - LOW PRESSURE - 1/2 X 30 IN	1
	43-0435	SWITCH - OIL PRESSURE	1
	43-0434	ANALYZER - EMISSION DATA	1
	43-0418	B-S FILTER-OIL	1
		B-S FILTER - AIC CARTRIDGE	1
	43-0430	SPARK PLUG	1
	43-0446	VALVE - INLINE FILTER SHUT-OFF	1
	43-0451	O2 SENSOR	1
	43-0471	MUFFLER - CATALYTIC 656 & 810 CC BRIGGS - SLIM	1
	43-0491	LIQUIDNATOR	1
	43-0447	BULK HEAD LIQUIDNATOR	1
	43-0494	OIL DRAIN HOSE	1
		SOLENOID	1
		STARTER	1

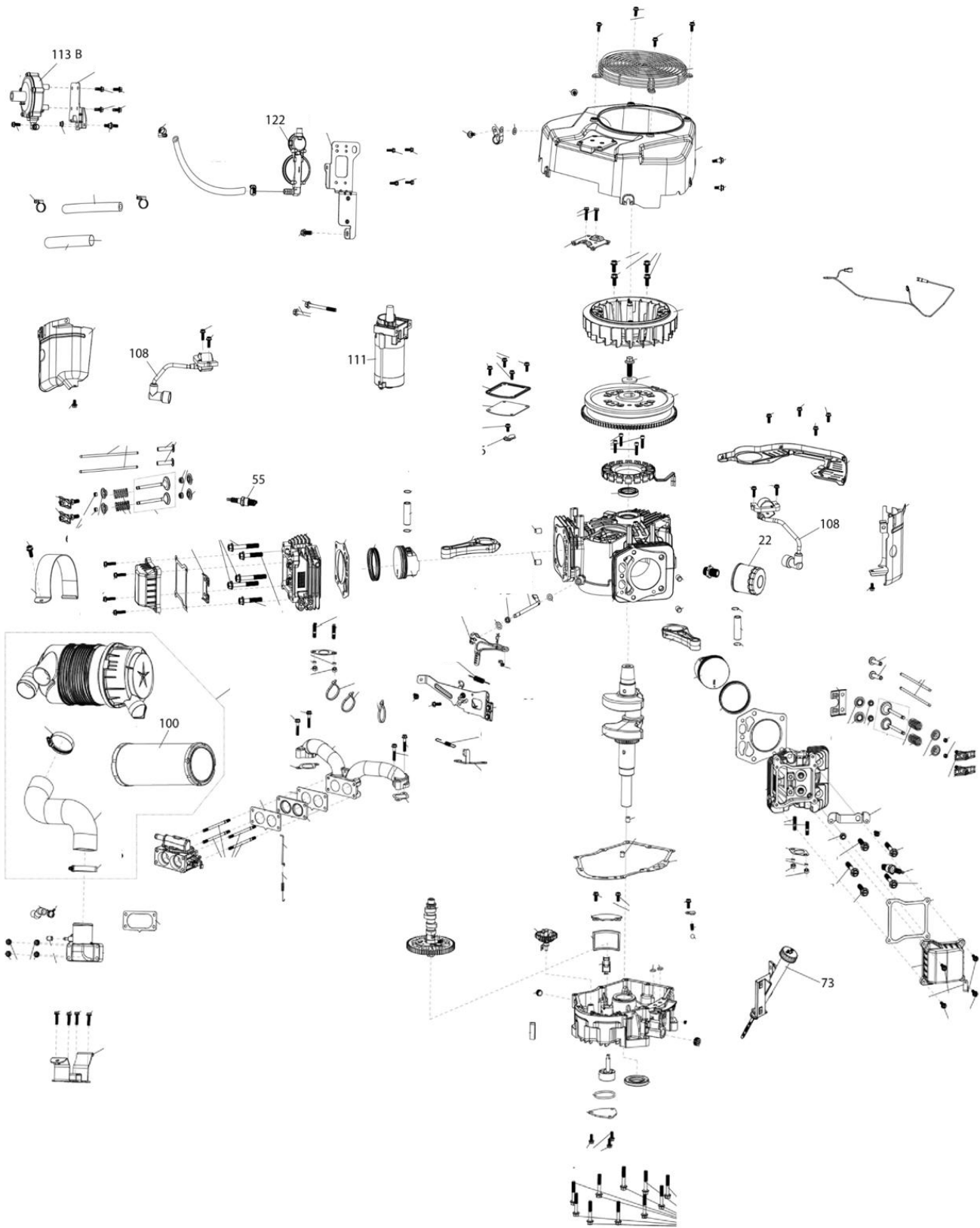


43-0415 - LX700 ENGINE - 650PRO

Machine Serial numbers before 745106

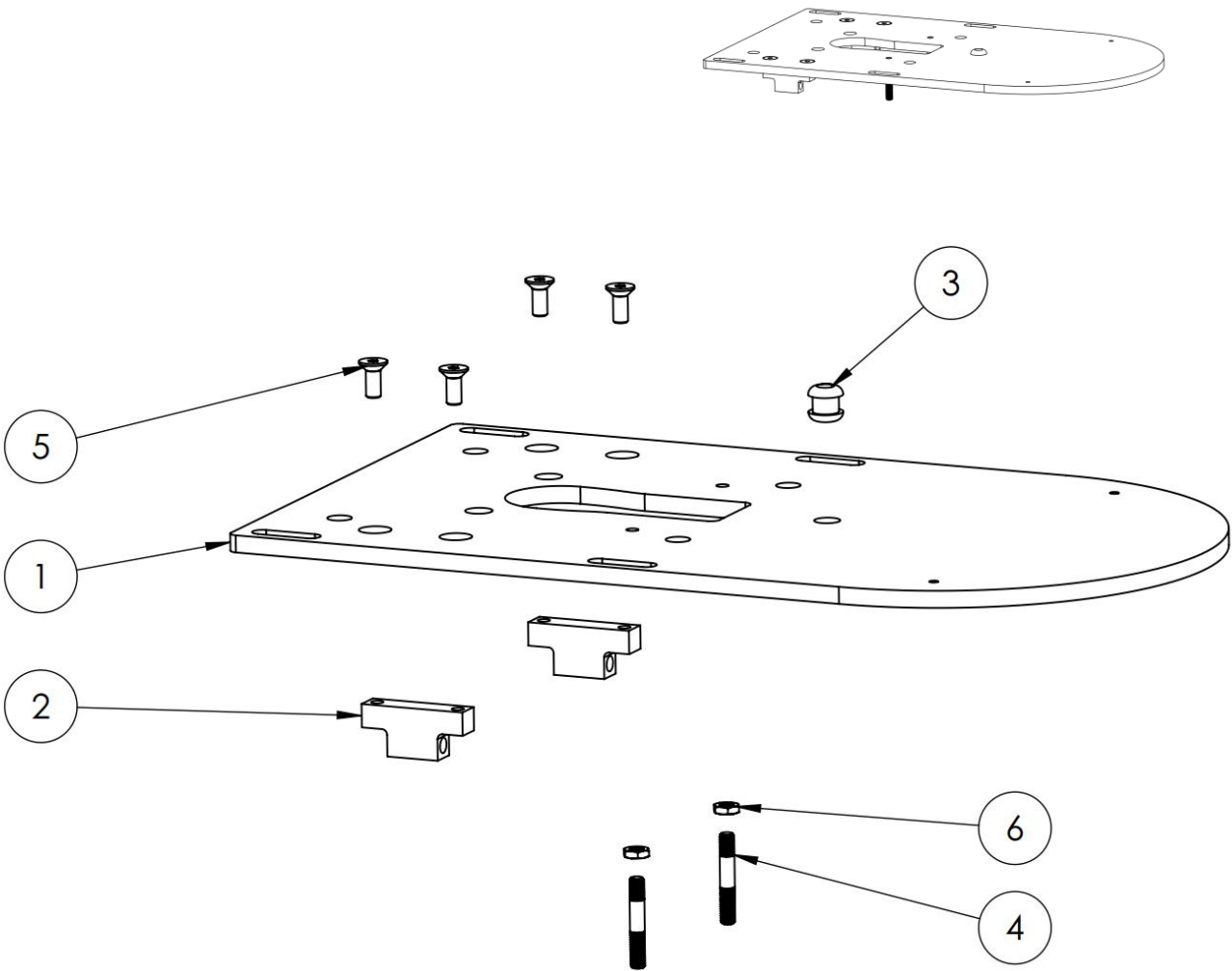
ITEM NO.	Part Number	DESCRIPTION	QTY.
1	43-0432	Propane Solenoid Shutoff Valve "Lockoff", 12V brass 1/4 NPT	1
2	43-0459	Catalyst Muffler, Modified for 708ccBracket,	1
5	43-0433	Starter Solenoid Relay, 12V	1
8	43-0422	Bracket, Bonnet Filter, 708cc Engine	1
9	43-0421	W10409 I Bonnet Filter - 9.0 ID x 3.25 H	1
22	22-0112	Oil Filter	1
55	43-0458	Spark Plug	2
100	43-0438	Air filter element combination	1
108	43-0457	Coil assy ignition	1
111	43-0437	Starter	1
113B	43-0441	Vacuum Regulator, 2 lower attachment bosses	1
122	43-0428	Pres Regulator, LPG, Dual Stage w/ 3/8 barb Elbow	1
N/A	43-0436	Wiring Harness - Universal Hot Start w/ DPDT Relay	1
N/A	43-0429	Emission Module	1
N/A	43-0426	O2 Sensor, Exhaust, Narrow Band	1
N/A	22-0110	Ignition Switch	1
N/A	43-0420	Engine Rain Cap	1
N/A	43-0448	45 Deg. Elbow-3/8 Male Flare	1





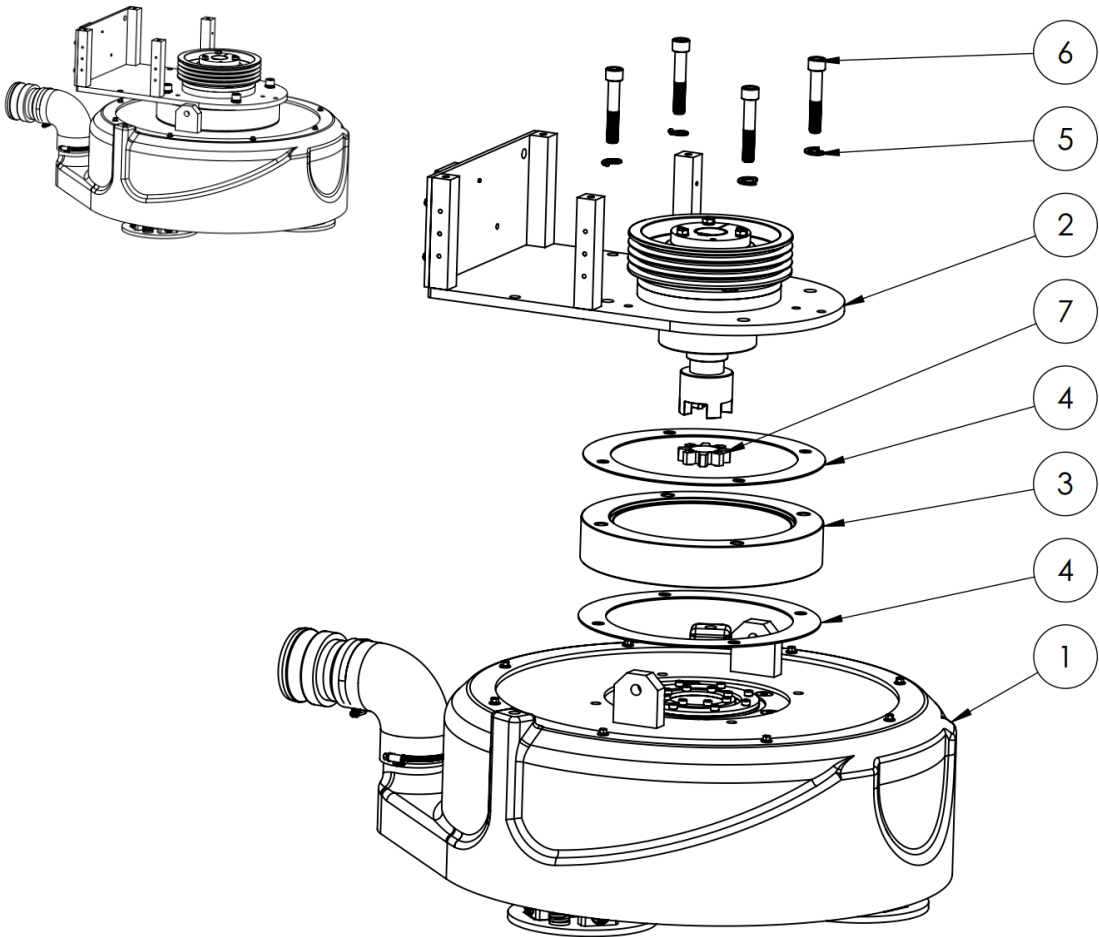
96-0764 - ENGINE MOUNT SUB ASSEM - 650PRO - B

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	51-3396	MOTOR PLATE 650PRO	1
2	51-3399	BLOCK TENSIONER 650PRO	2
3	13-0716	GROMMET, HIGH-TEMP 9/16"-3/8"-3/8"	1
4	13-0715	STUD DOUBLE END M8X50	2
5	12-0880-20	SCREW, FLAT HEAD SOCKET CAP M8-1.25 X 20	4
6	12-0830-JAM	NUT - M8XJAM - ZINC	2



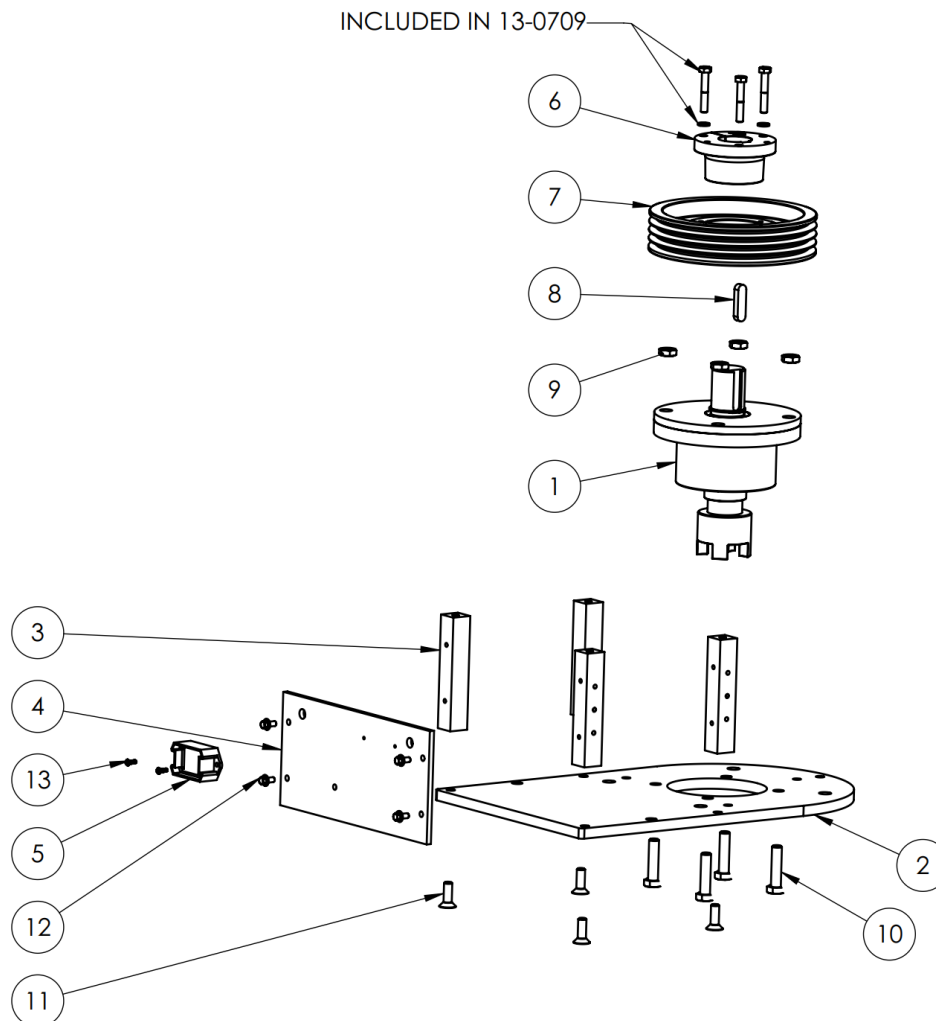
96-0812 - DRUM CLUTCH BOX SUB ASSEMBLY 650PRO - B

ITEM NO.	Part Number	DESCRIPTION	QTY.
1	96-0460	DRUM ASSEMBLY - 650	1
2	96-0762	DRUM MOUNT PLATE SUB ASSEM - 650PRO	1
3	51-3381	DRUM TO DRIVE SPACER - 650PRO	1
4	13-0675	DRUM TO DRIVE GASKET - 650	2
5	12-1470	LOCK WASHER - M14 - ZINC	4
6	12-1400-80	SOCKET HEAD CAP SCREW M14-2.0 X 80	4
7	13-0707	BUSHING, SPIDER, CJ 28/38 RED /BG6K	1



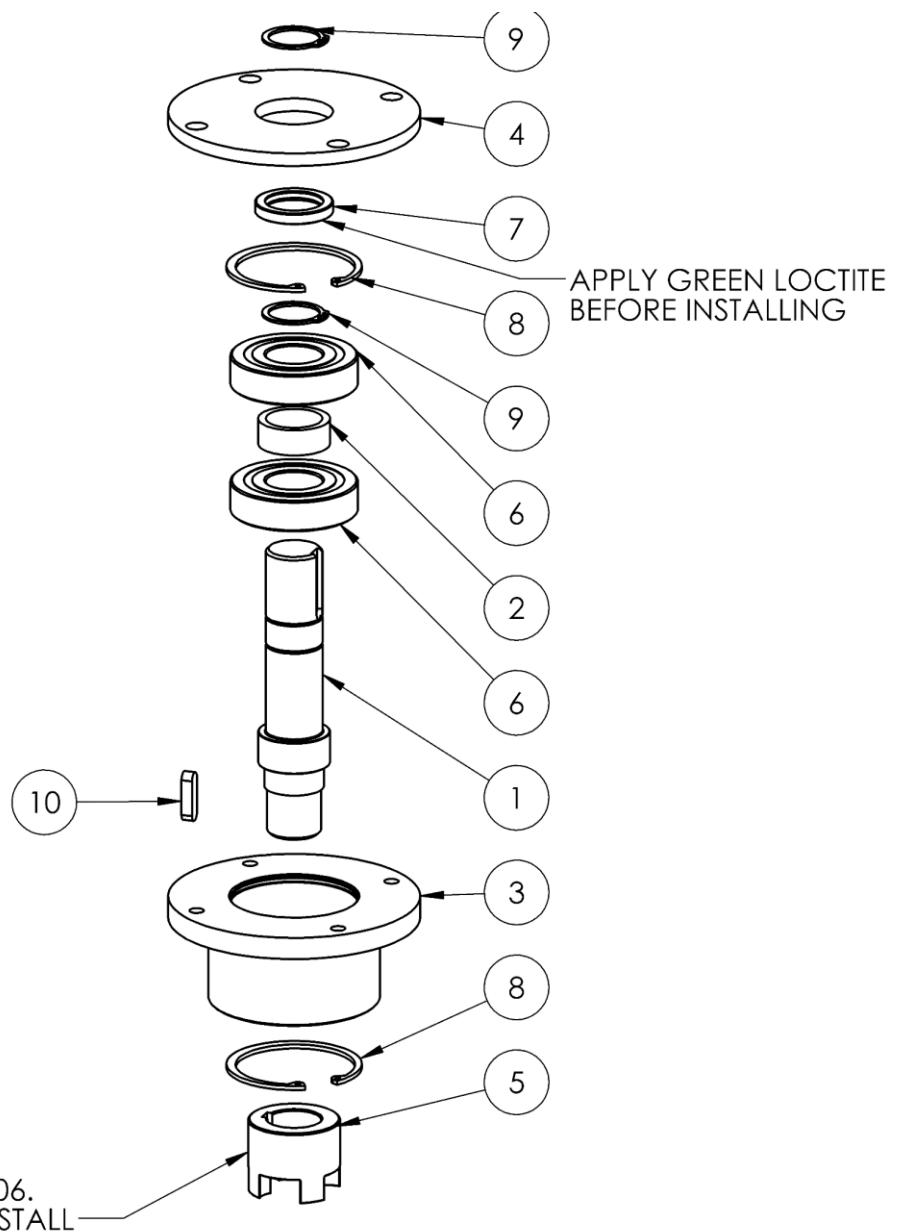
96-0762 - DRUM MOUNT PLATE SUB ASSEM - 650PRO - C

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	96-0766	TRANSFER SHAFT SUB ASSEM - 650PRO	1
2	51-3391	BASE PLATE ELECTRIC CLUTCH BOX 650PRO	1
3	51-3393	STANCHION CLUTCH BOX 650PRO	4
4	51-3394	CLUTCH BOX REAR COVER 650PRO	1
5	23-0250	SOFT START, CLUTCH	1
6	13-0709	BUSHING 40MM - SK 650PRO AND 800PRO	1
7	13-0710	SHEAVE, 4/3V OD8"	1
8	13-3331	KEY M12 X 8 X 45	1
9	12-1230-JAM	NUT, JAM M12-1.75	4
10	12-1220-50	HEX HEAD CAP SCREW - M12X50 - ZINC	4
11	12-1080-30	FLAT HEAD - M10X30 - ZINC	4
12	12-0660-12	SERRATED - M6X12 - ZINC	4
13	12-0410-12	SERRATED - M4X12 - ZINC	2



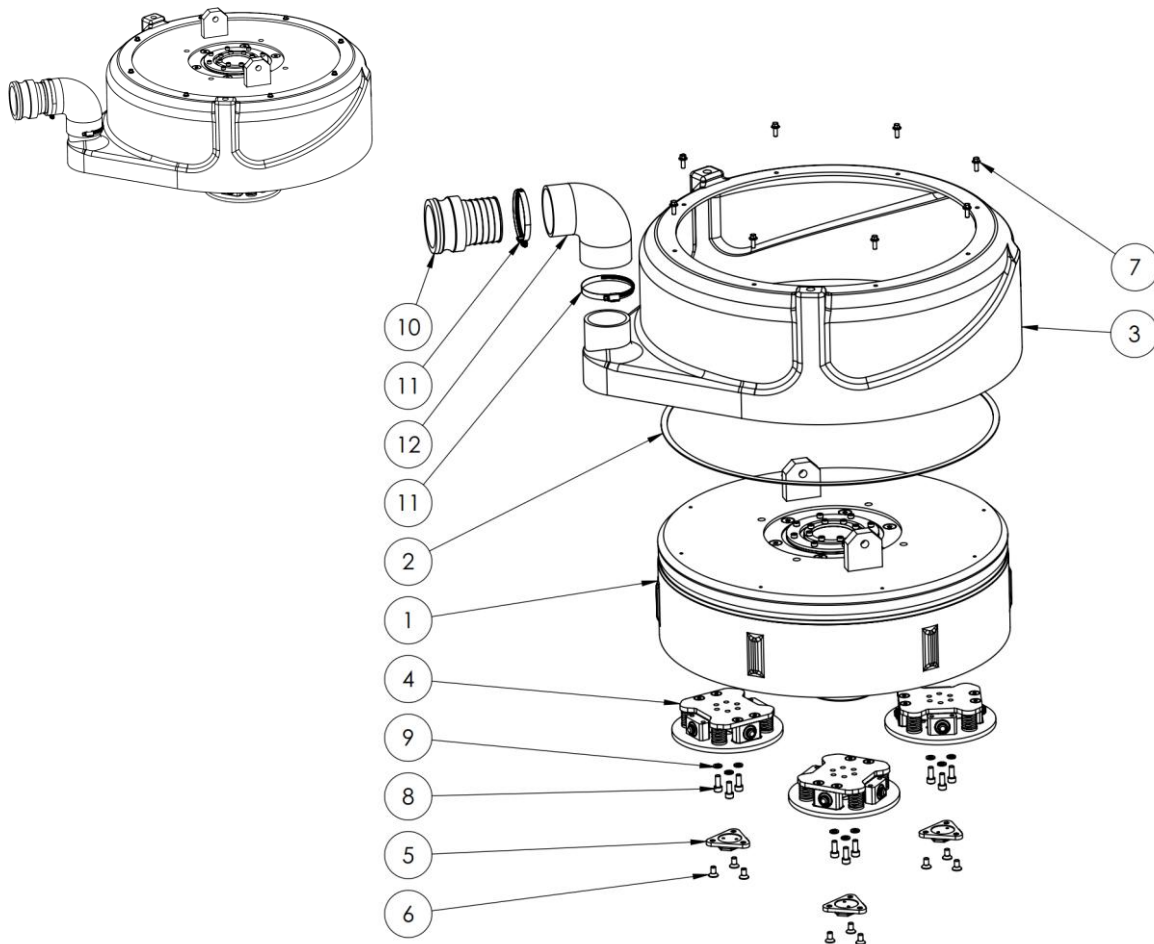
96-0766 - TRANSFER SHAFT SUB ASSEM - 650PRO - A

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	51-3400	TRANSFER SHAFT 650PRO	1
2	51-3401	ID SPACER 650PRO 850PRO	1
3	51-3402	BEARING HOUSING, PRIMARY 650PRO 850PRO	1
4	51-3403	SEAL PLATE 650PRO 850PRO	1
5	13-0706	COUPLER, CJ28/38 LOVEJOY 650PRO	1
6	13-3321	BEARING, BALL, 6308-2RS 650PRO 850PRO	2
7	13-3322	SEAL, ROTARY SHAFT M40 X M55 650PRO 850PRO	1
8	13-3323	RING, INTERNAL M90 650PRO 850PRO	2
9	13-3324	RING, EXTERNAL M40 650PRO 850PRO	2
10	13-0705	KEY M10X8X30 PARALLEL	1



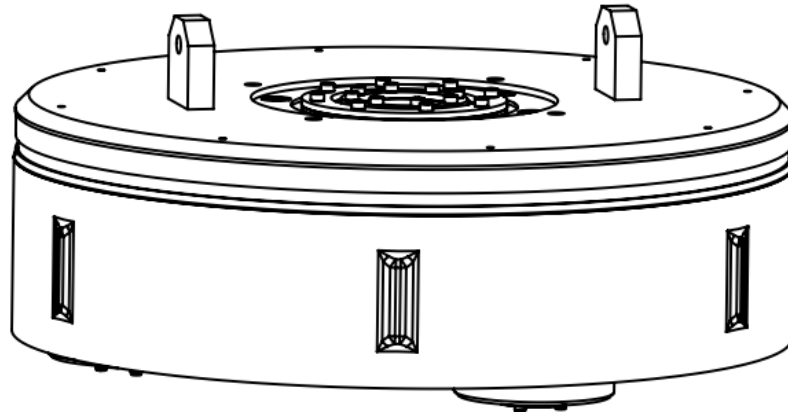
96-0460 - DRUM ASSEMBLY – 650 - C

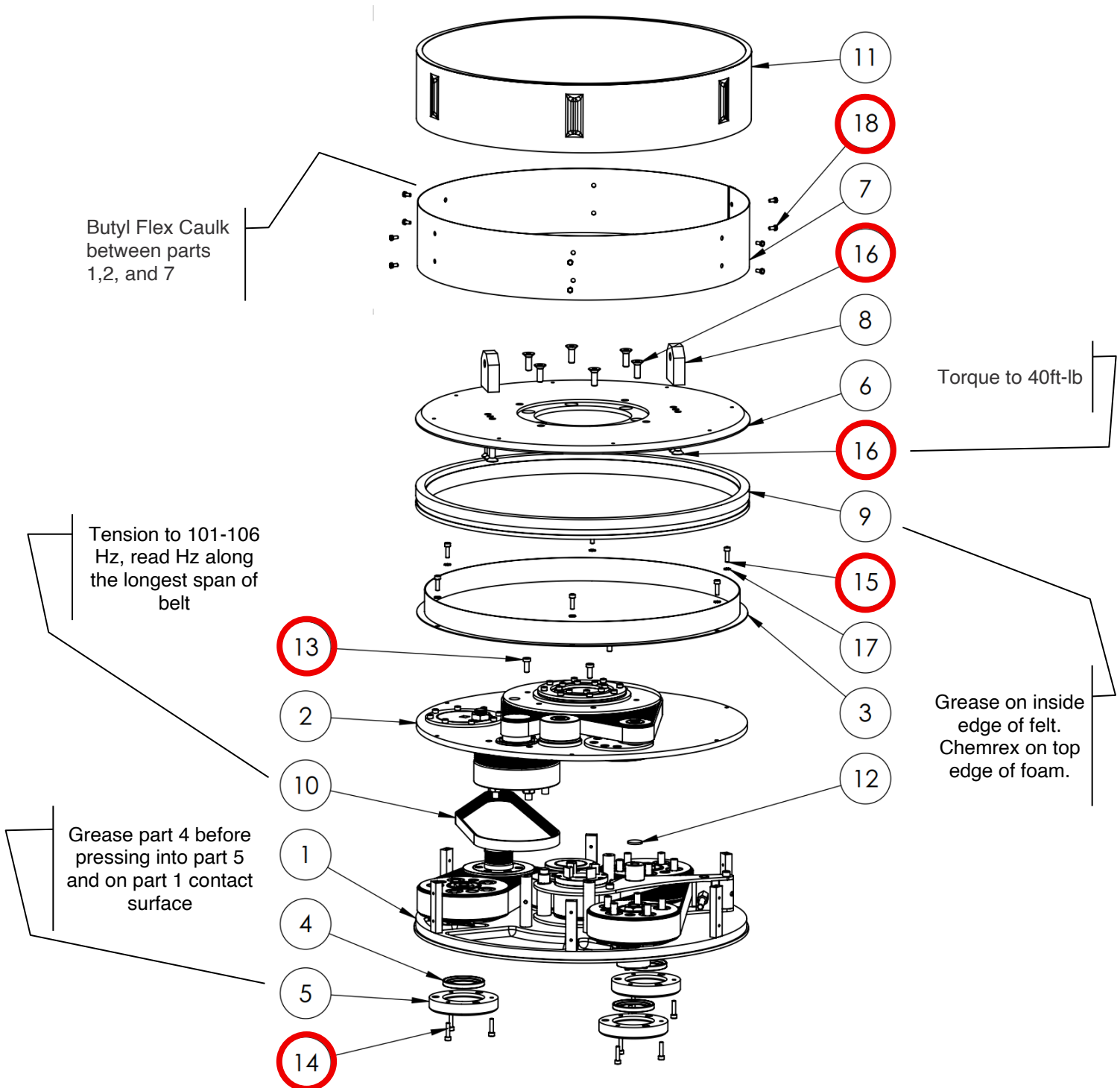
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	BG.60210.00	DRUM, COMPLETE /BG6K	1
2	BG.20249.00	RUBBER, EPDM GASKET /BG8K 6K 5K	1
3	BG.60038.00	SHROUD, MOLDED VACUUM /BG6K	1
4	BG.6A010.85	FLEX HEAD, NO SHAM WITH BLUE SPRINGS /BG6K	3
5	96-0785	TOOLING TRIANGLE ASSEMBLY 650	3
6	12-0880-16	FLAT HEAD SOCKET SCREW - 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

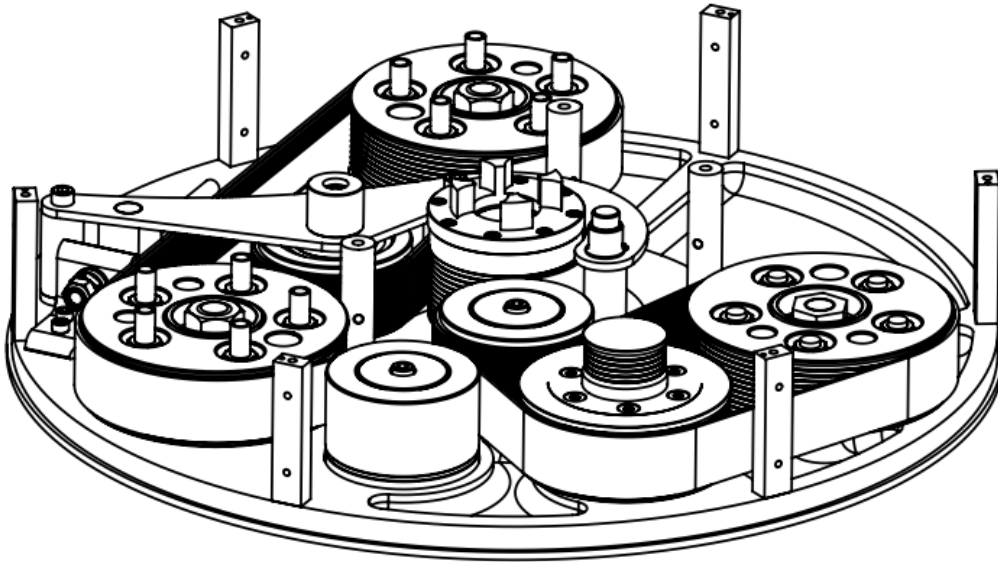


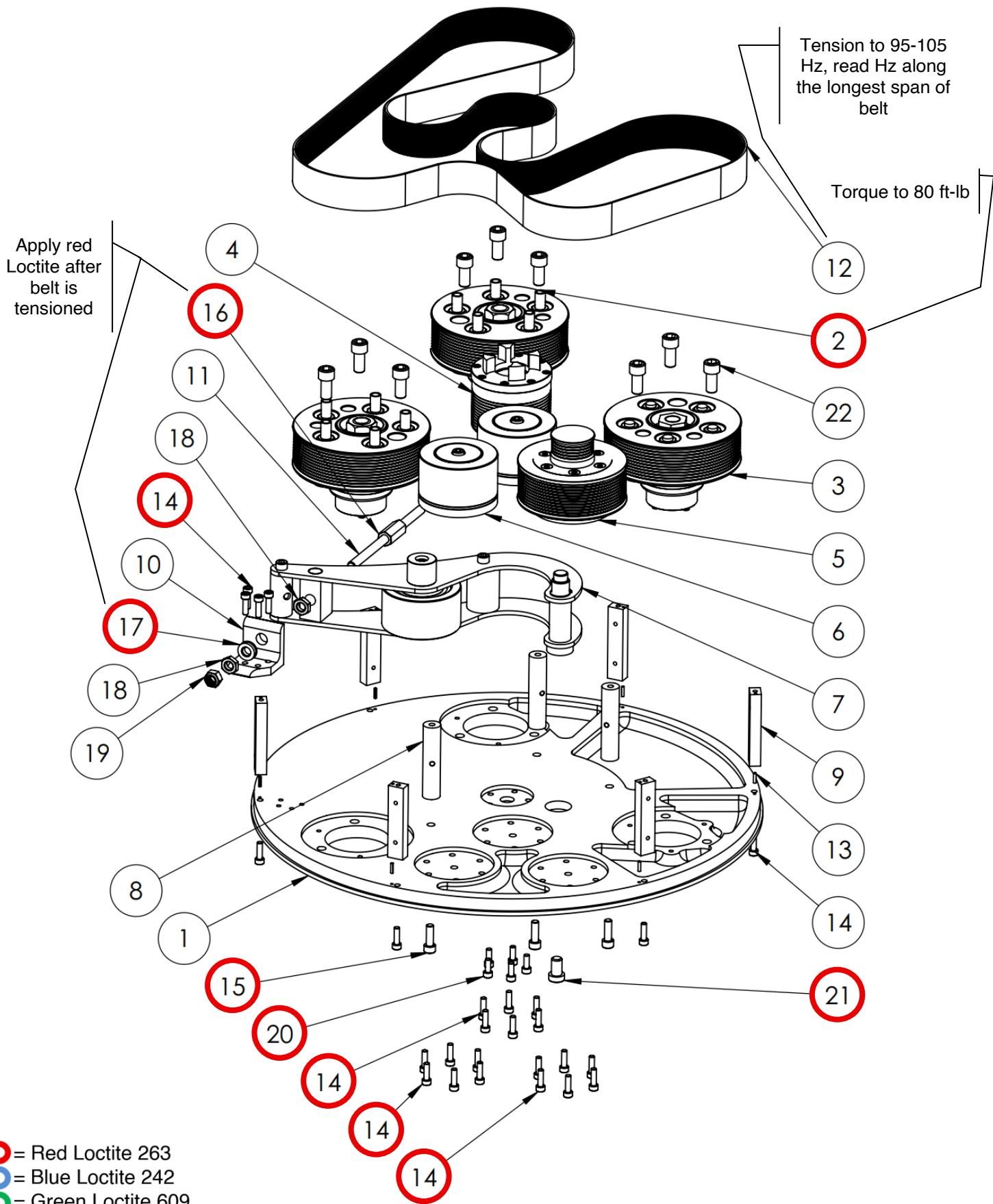


-  = Red Loctite 263
-  = Blue Loctite 242
-  = Green Loctite 609

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

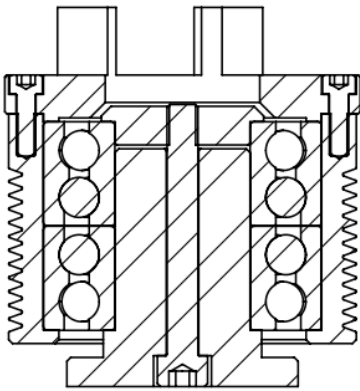
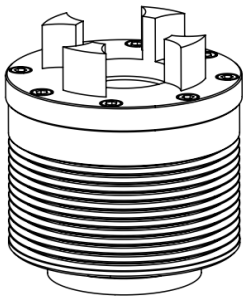
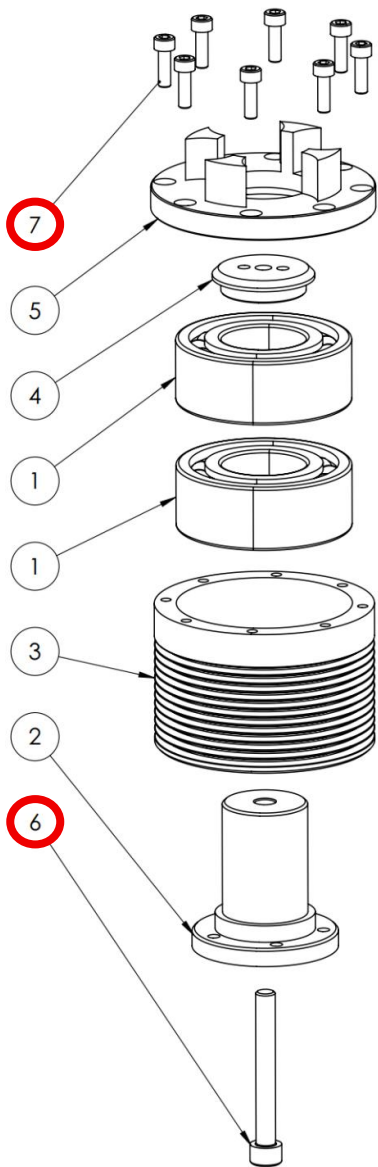




BG.6A007.00 –MAIN DRIVE SPINDLE, 6K

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

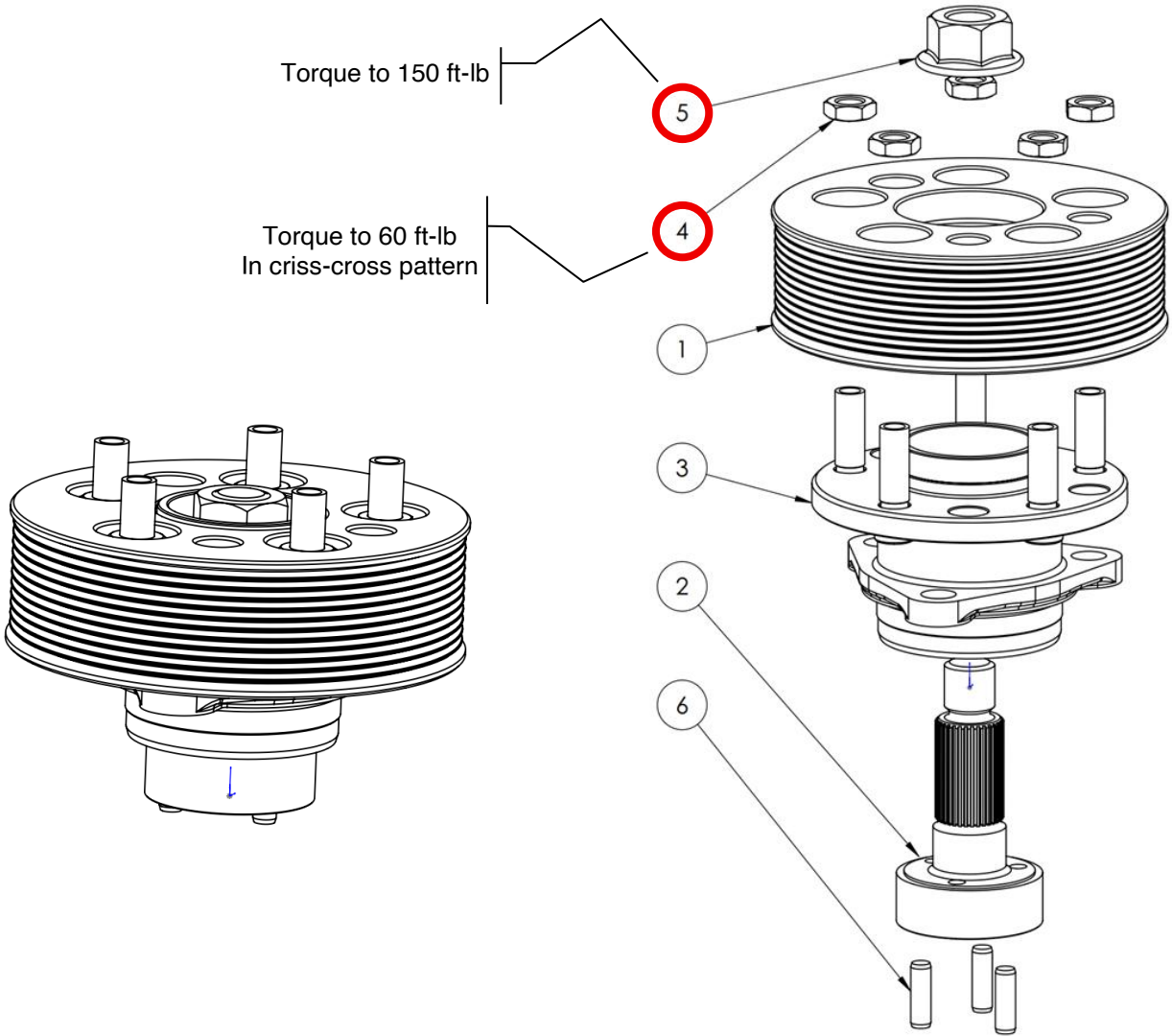


SECTION C-C
SCALE 1 : 2

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

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

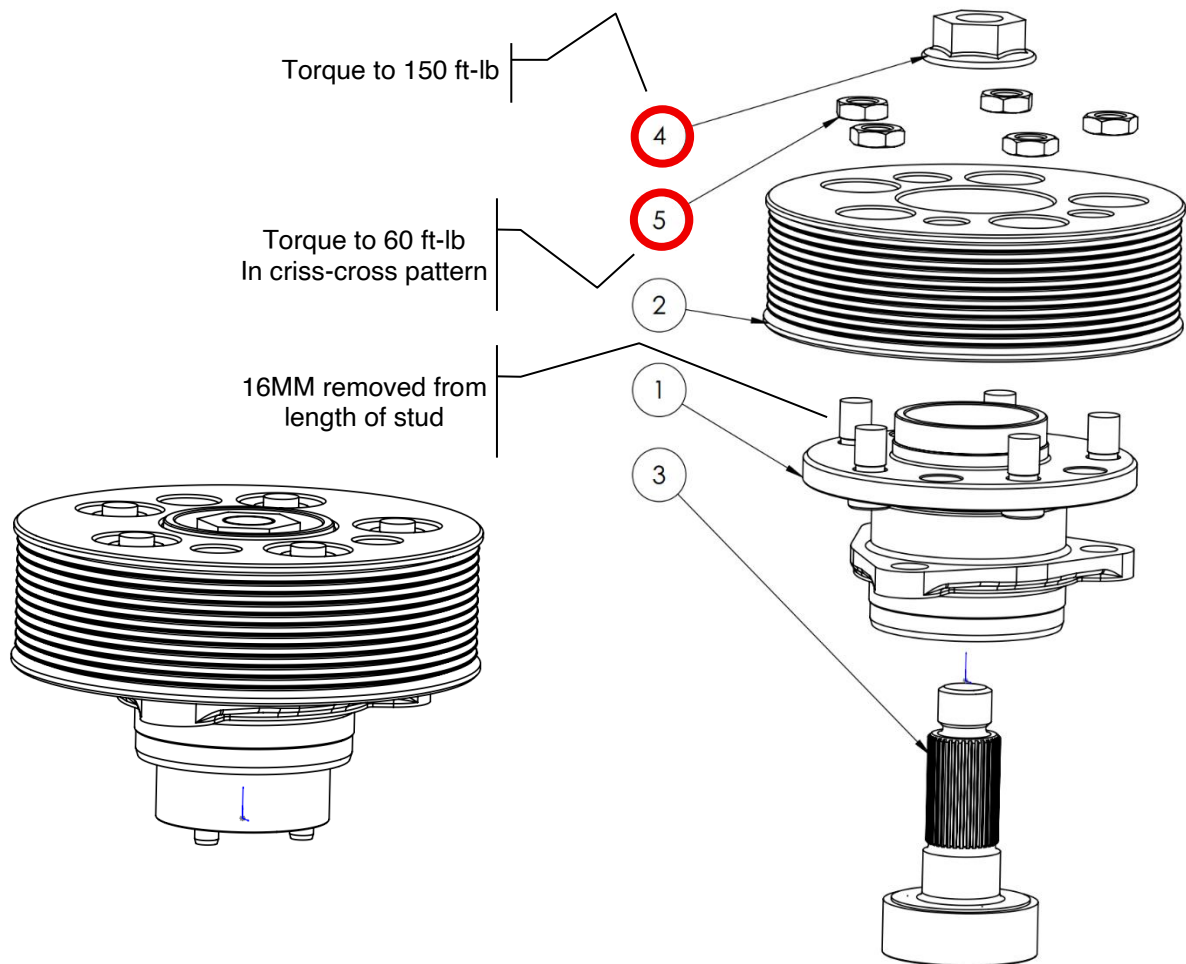
Item No.	Part Number	Description	Qty.
1	BG.60001.00	6K PLANETARY SHEAVE	1
2	BG.20200.00	AXLE, PLANETARY, 40MM	1
3	BG.20201.00	HUB TIMKIN BEARING	1
4	NB.20.109	NUT, JAM M12-1.75	5
5	NB.20.108	NUT, HEX FLANGE M20-2.5	1
6	NB.50.143	PIN, HARDENED M8 X 26	3



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

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

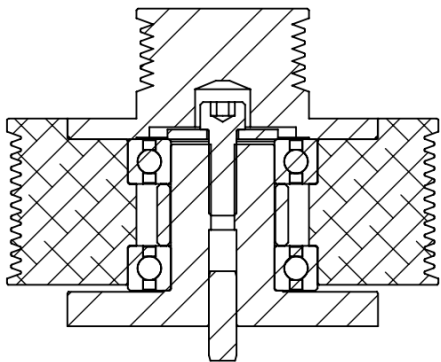
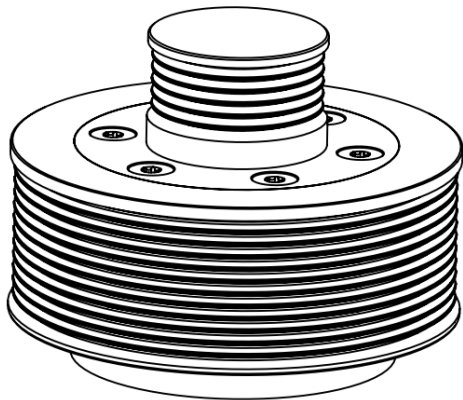
Item No.	Part Number	Description	Qty.
1	BG.60024.00	TOP PLATE, TOP DRUM ASSEMBLY, 6K	1
2	BG.2A001.10	PTO TENSIONER SUBASSEMBLY, 6K/8K	1
3	BG.6A001.00	DRUM SHEAVE SUBASSEMBLY, 6K	1
4	BG.6A002.00	INTERMEDIATE SHEAVE SUBASSEMBLY, 6K	1
5	BG.6A003.00	TOP BELT IDLER SUBASSEMBLY	1
6	BG.6A004.00	TOP BELT TENSIONER 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



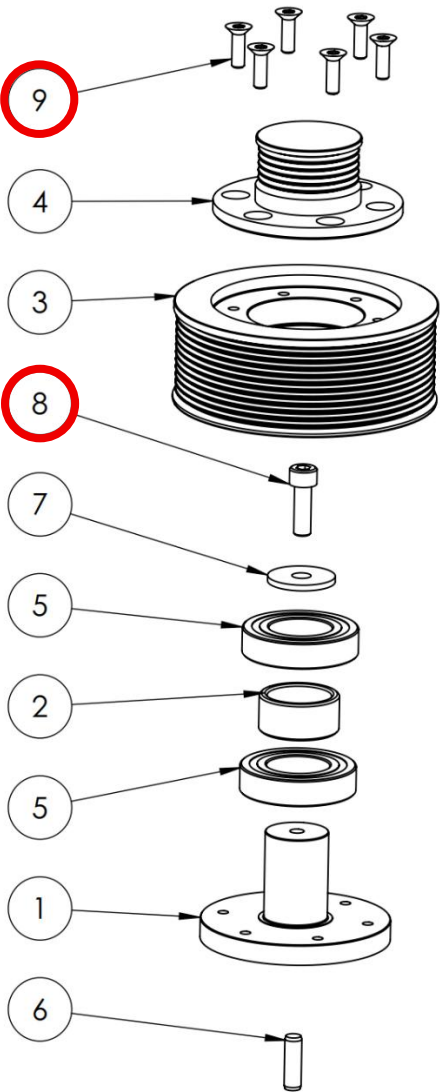
-  = Red Loctite 263
-  = Blue Loctite 242
-  = Green Loctite 609

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



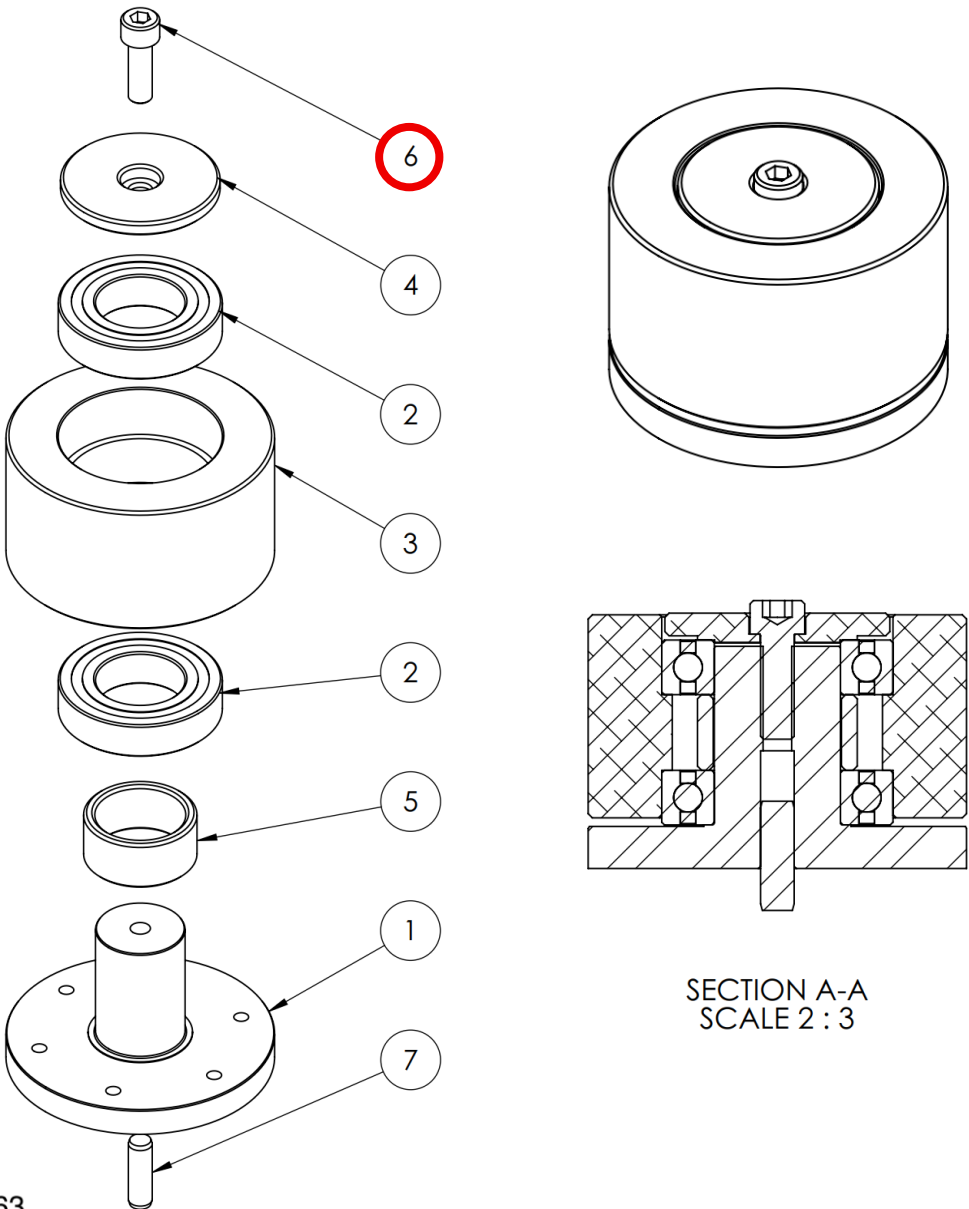
SECTION C-C
SCALE 1 : 2



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

BG.6A006.00 – MAIN BELT IDLER, 6K

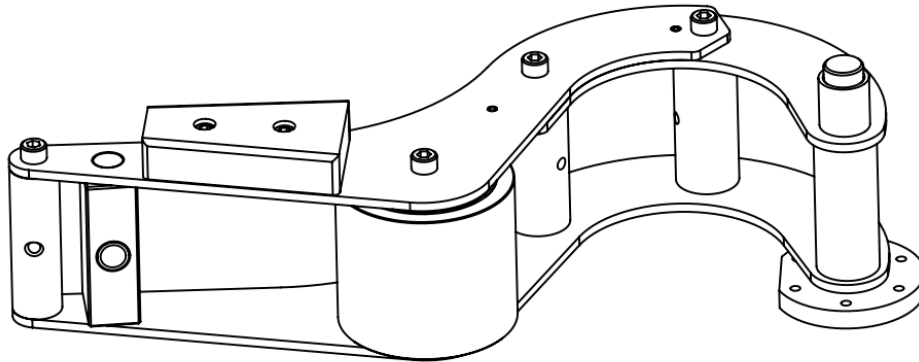
Item No.	Part Number	Description	Qty.
1	BG.60008.00	SPINDLE, MAIN BELT IDLER 6K	1
2	BG.20221.00	BEARING, 6006-2RS	2
3	BG.60007.00	IDLER, MAIN BELT 6K	1
4	BG.60009.00	RETAINER, IDLER BEARING 6K	1
5	BG.60053.00	BEARING SPACER	1
6	NB.12.219	SCREW, SOCKET HEAD CAP M8-1.25 X 25	1
7	NB.50.143	PIN, HARDENED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



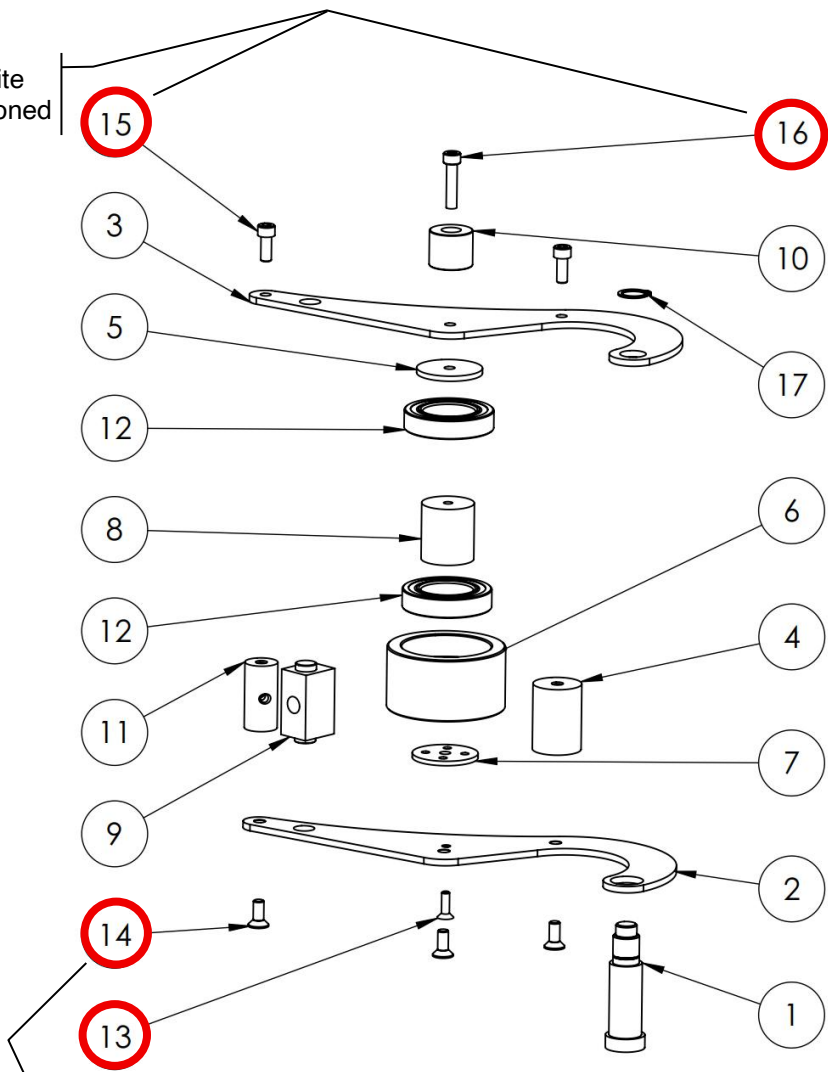
-  = Red Loctite 263
-  = Blue Loctite 242
-  = Green Loctite 609

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

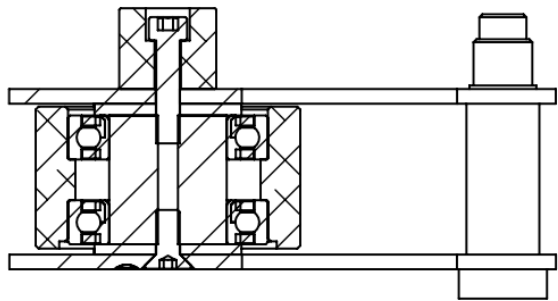
Item No.	Part Number	Description	Qty.
1	BG.60012.10	SPINDLE, MAIN TENSIONER 6K	1
2	BG.60013.10	LOWER ARM, MAIN BELT TENSIONER 6K	1
3	BG.60014.00	UPPER ARM, MAIN BELT TENSIONER, 6K	1
4	BG.60015.20	STANCHION, HEAVY MAIN BELT TENSIONER, 6K	1
5	BG.60016.00	IDLER SPINDLE UPPER SPACER, MAIN BELT TENSIONER, 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

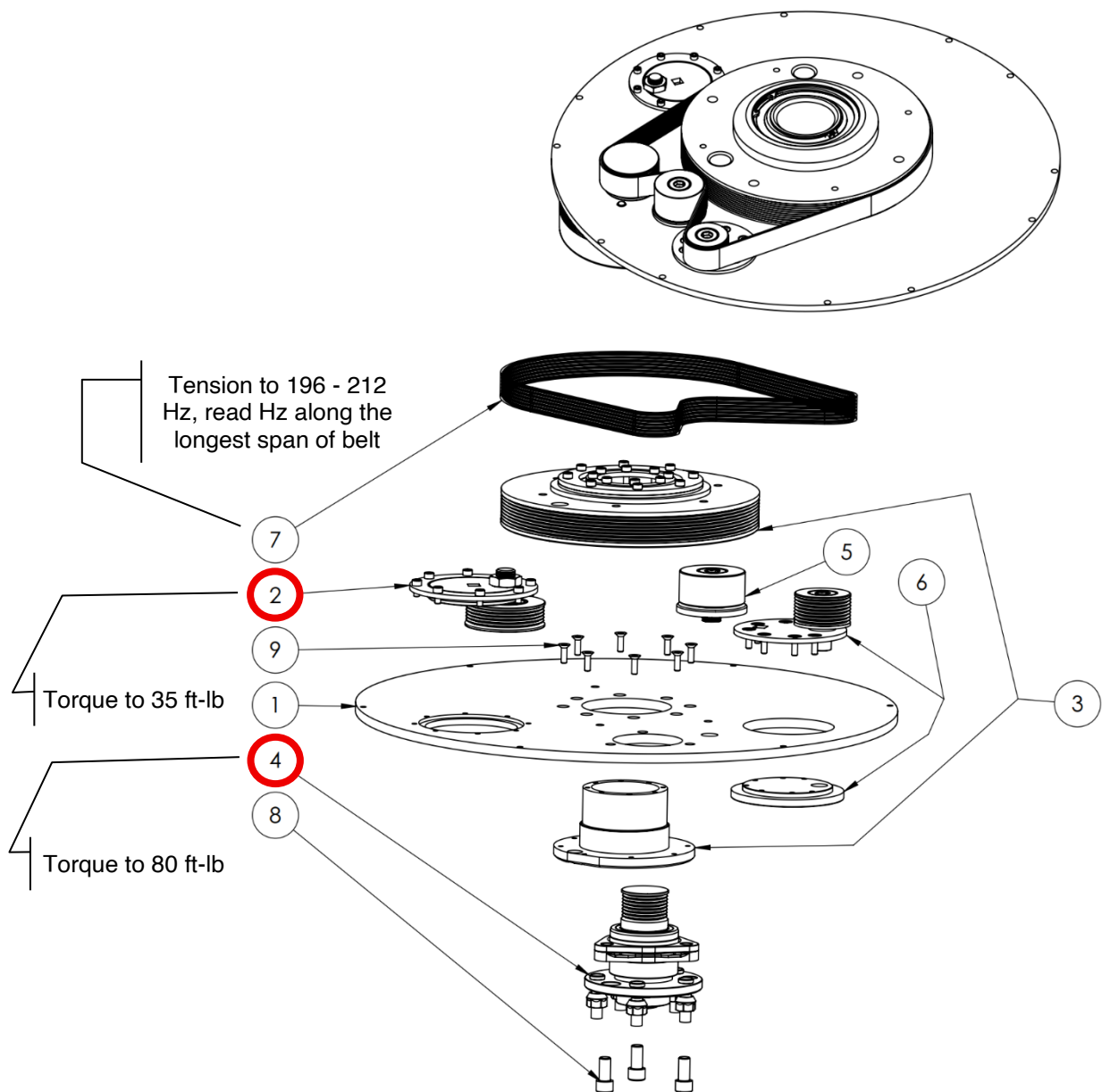


SECTION C-C
SCALE 1 : 3

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

BG.6A035.20 – 6K TOP DRUM SUBASSEMBLY

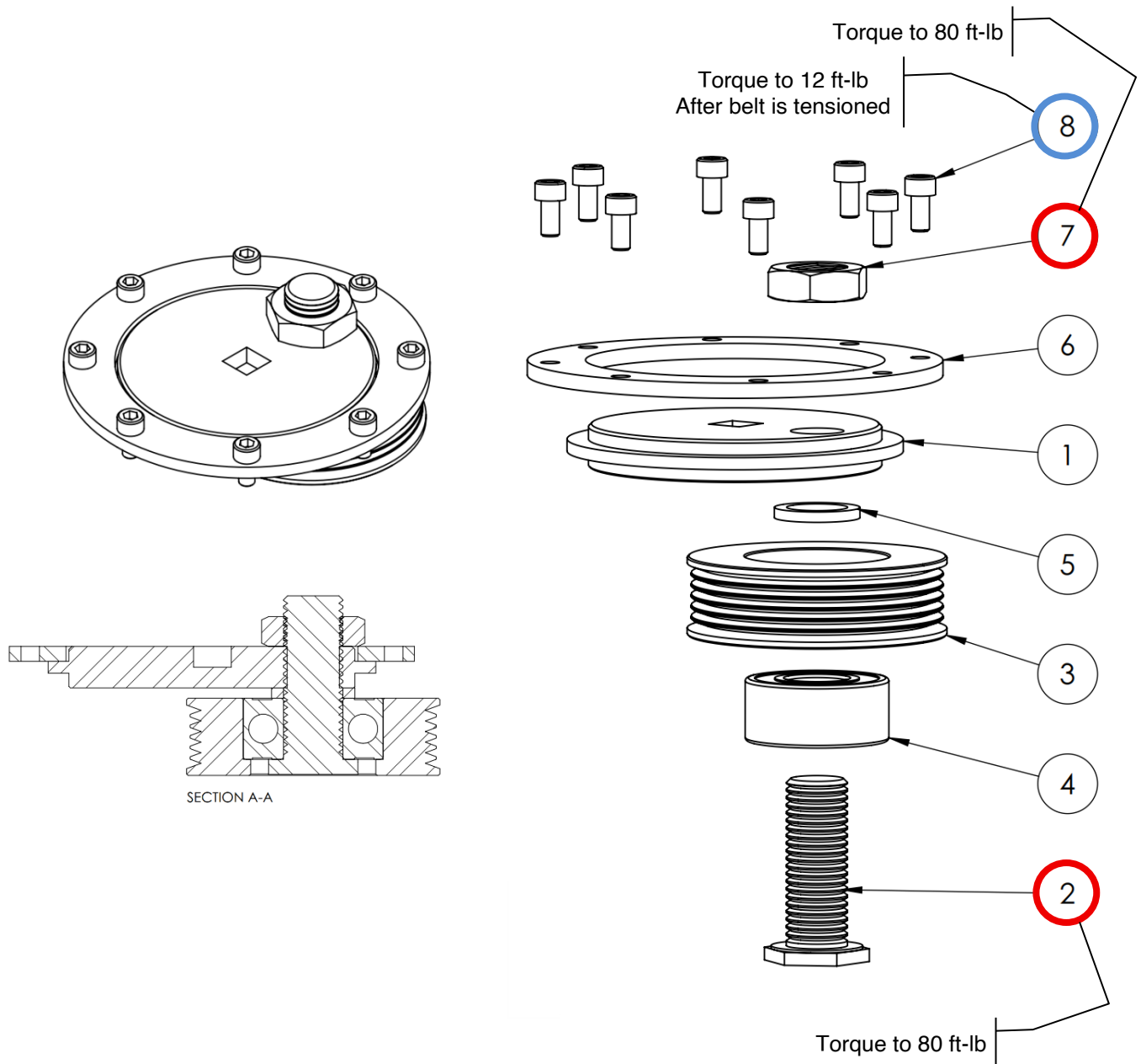
Item No.	Part Number	Description	Qty.
1	BG.80028.00	TOP DRUM PLATE	1
2	BG.2A001.10	PTO TENSIONER SUBASSEMBLY, 6K/8K	1
3	BG.8A004.10	SUBASSEM, TOP TENSIONER	1
4	BG.8A003.10	SUBASSEM, TOP BELT IDLER	1
5	BG.8A002.00	SUBASSEM, INTERMEDIATE SHEAVE	1
6	BG.8A001.10	SUBASSEM, DRUM SHEAVE	1
7	BG.80041.00	TOP 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

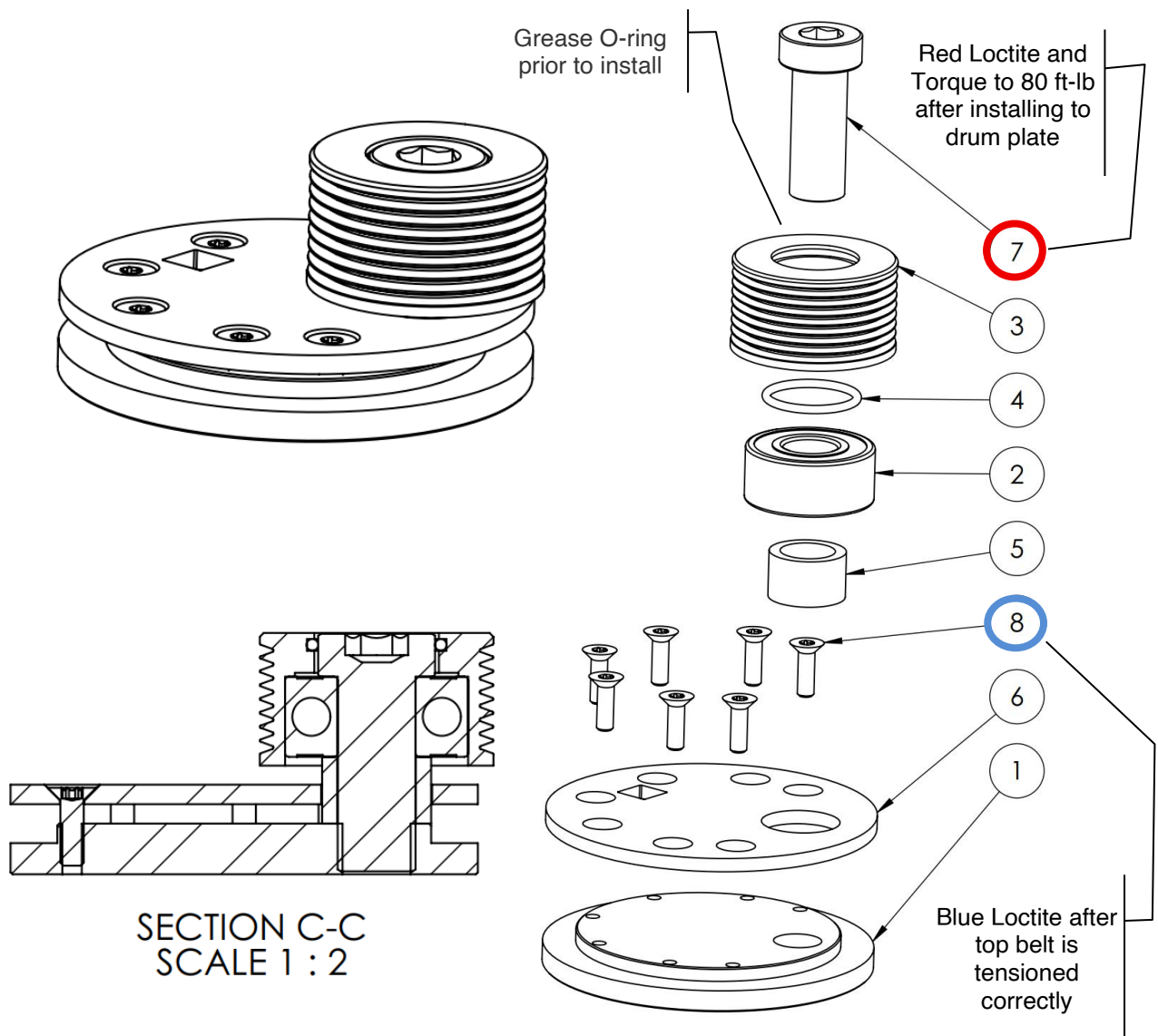
Item No.	Part Number	Description	Qty.
1	BG.20204.00	PLATE, PTO TENSIONER SUBASSEMBLY, 6K/8K	1
2	BG.20214.00	SCREW, HEX HEAD MODIFIED M20-2.5 X 55 /BG6K8K	1
3	BG.20212.00	IDLER, PTO TENSIONER SUBASSEMBLY, 6K/8K	1
4	BG.20220.10	BEARING, 3204-2RS	1
5	BG.20211.00	SPACER, PTO TENSIONER SUBASSEMBLY, 6K/8K	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

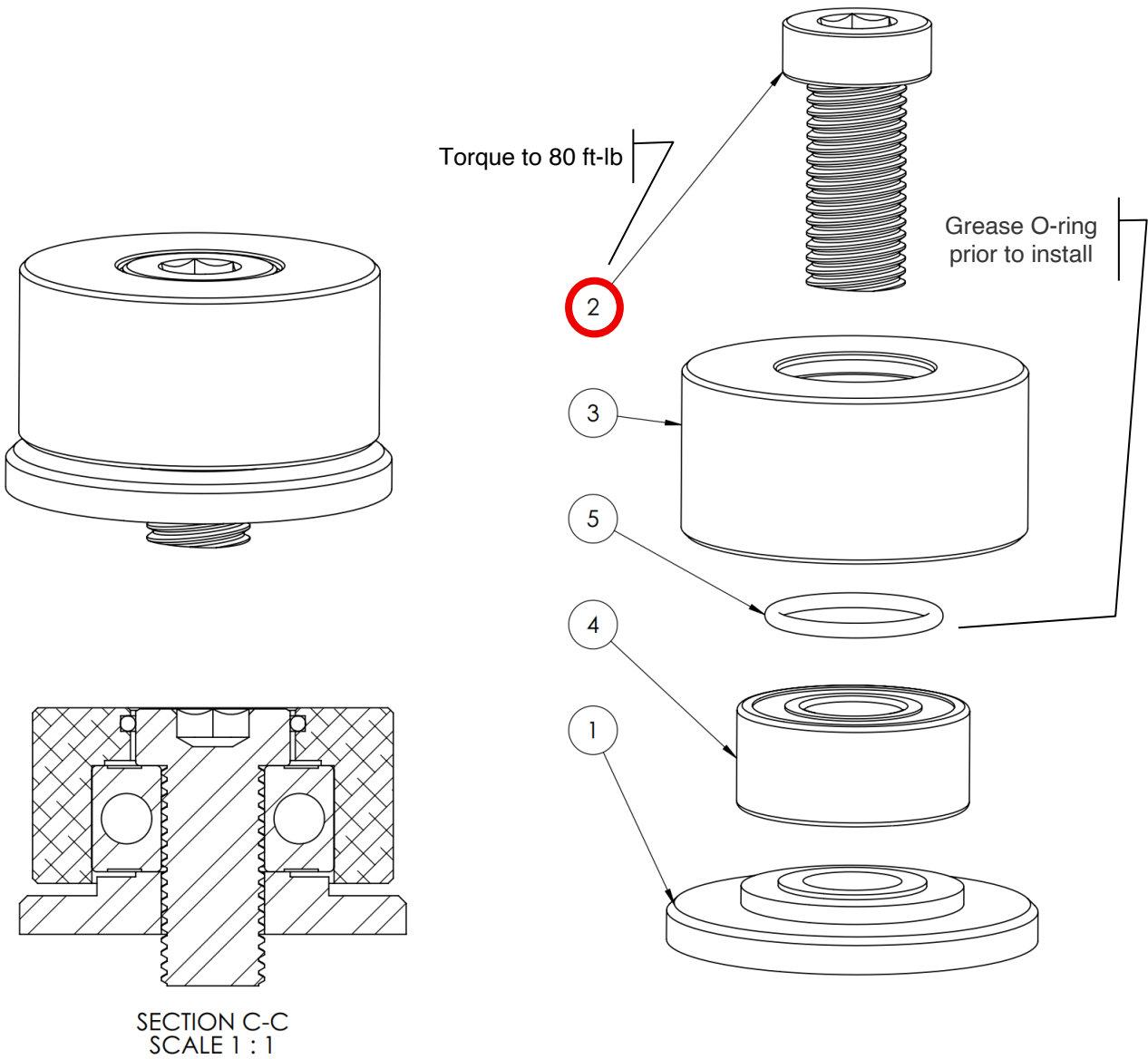
Item No.	Part Number	Description	Qty.
1	BG.20205.50	PLATE, BELT TENSIONER	1
2	BG.20220.00	BEARING, 3204-2RS	1
3	BG.60031.00	IDLER, TOP BELT TENSIONER 6K	1
4	BG.20215.00	O-RING, M30	1
5	BG.20210.00	TOP BELT TENSION IDLER SPACER	1
6	BG.20206.50	CLAMP, TOP BELT TENSIONER	1
7	NB.12.263	SCREW, LOW SOCKET 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

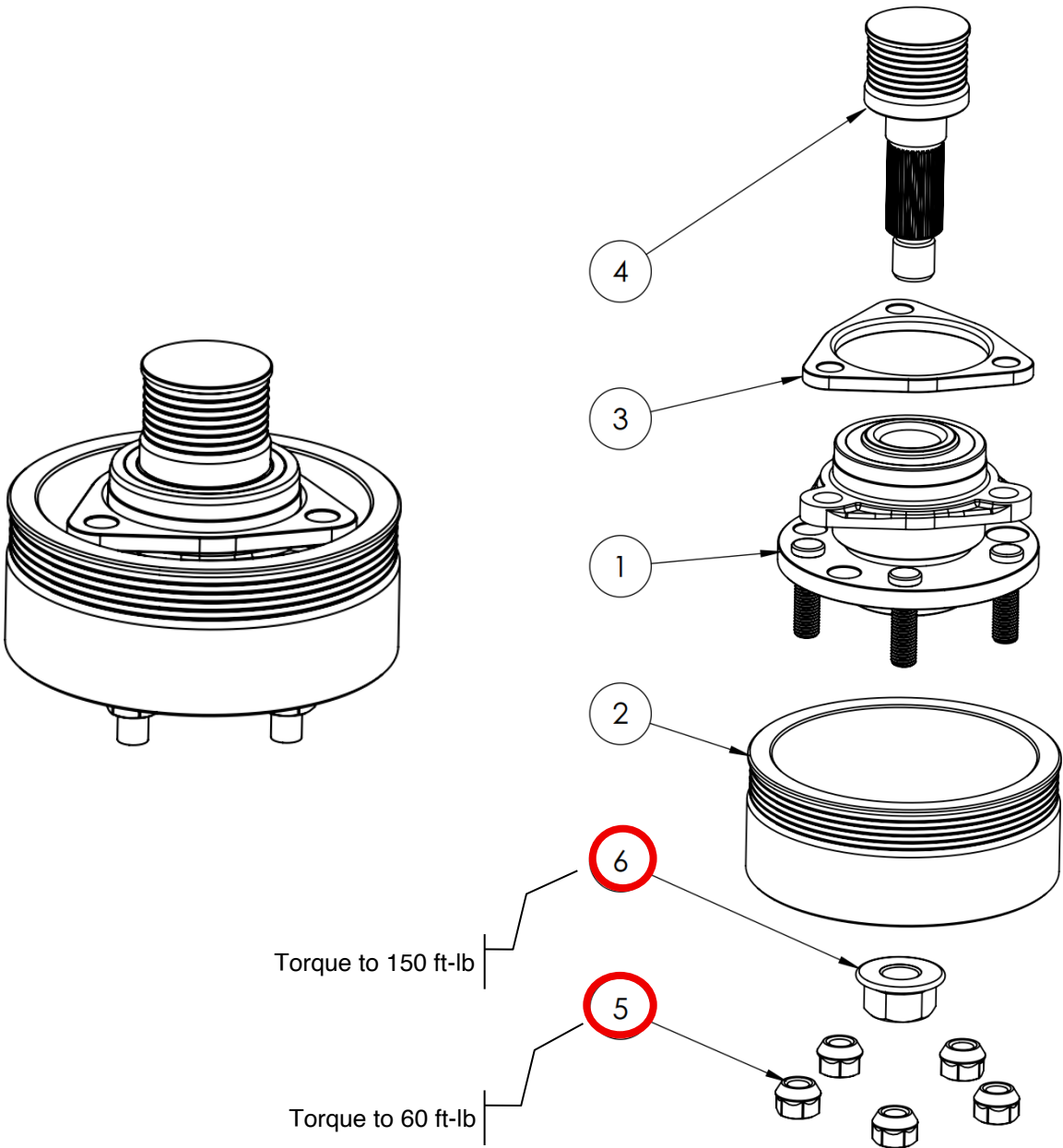
Item No.	Part Number	Description	Qty.
1	BG.60027.00	BASE, TOP BELT IDLER SUBASSEMBLY, 6K	1
2	BG.60073.00	SCREW, MODIFIED SOCKET HEAD M20-2.5 CLASS 8.8	1
3	BG.60028.00	IDLER, TOP BELT IDLER SUBASSEMBLY	1
4	BG.20220.00	BEARING, 3204-2RS	1
5	BG.20215.00	O-RING, M30	1



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

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

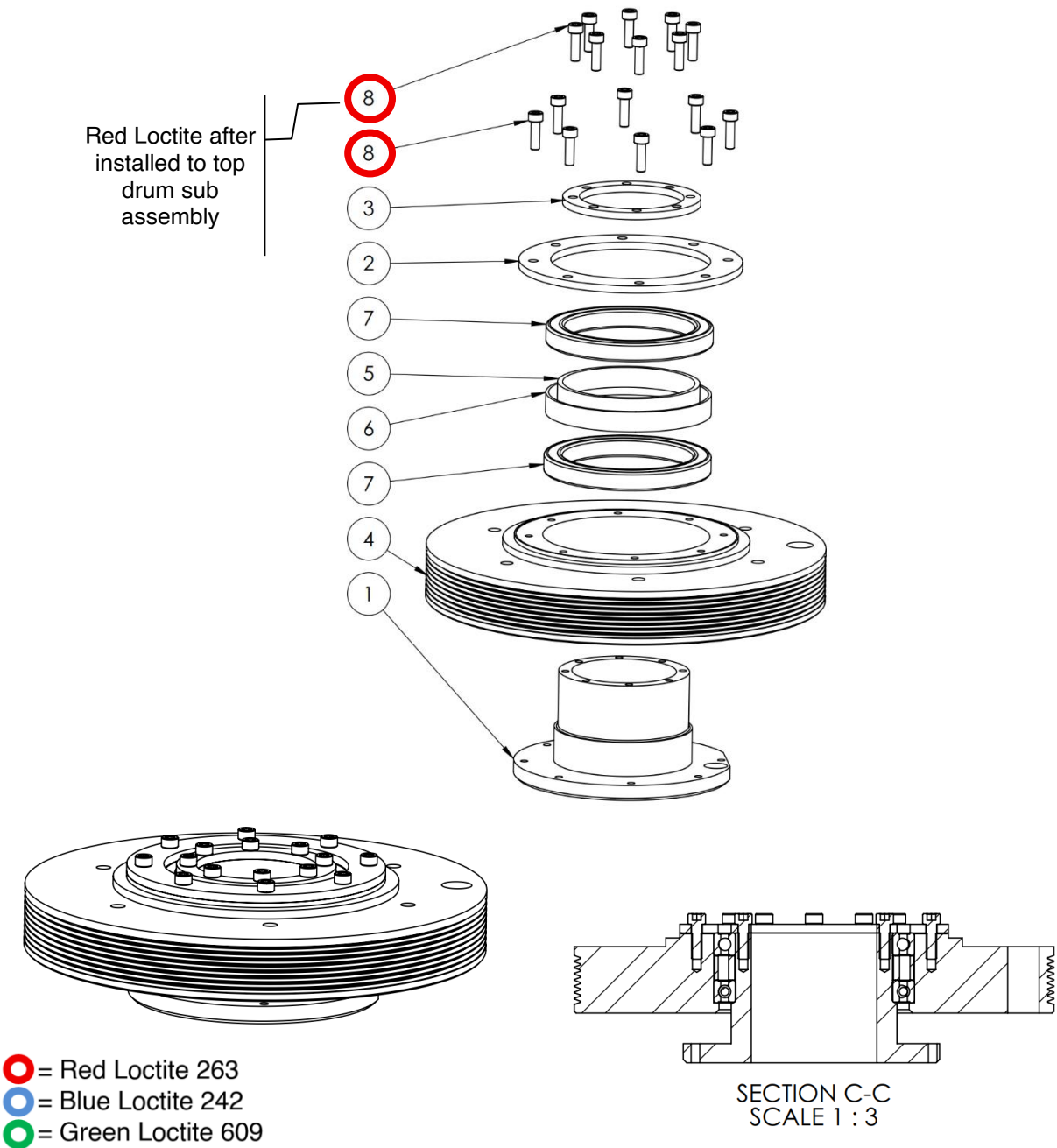
Item No.	Part Number	Description	Qty.
1	BG.20201.00	HUB TIMKIN BEARING	1
2	BG.60025.00	SHEAVE, INTERMEDIATE	1
3	BG.20209.00	SPACER, PTO HUB	1
4	BG.60026.00	AXLE, INTERMEDIATE SHEAVE SUBASSEMBLY, 6K	1
5	NB.20.107	NUT ,LUG M12 X 1.5	5
6	NB.20.108	NUT, HEX FLANGE M20-2.5	1



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

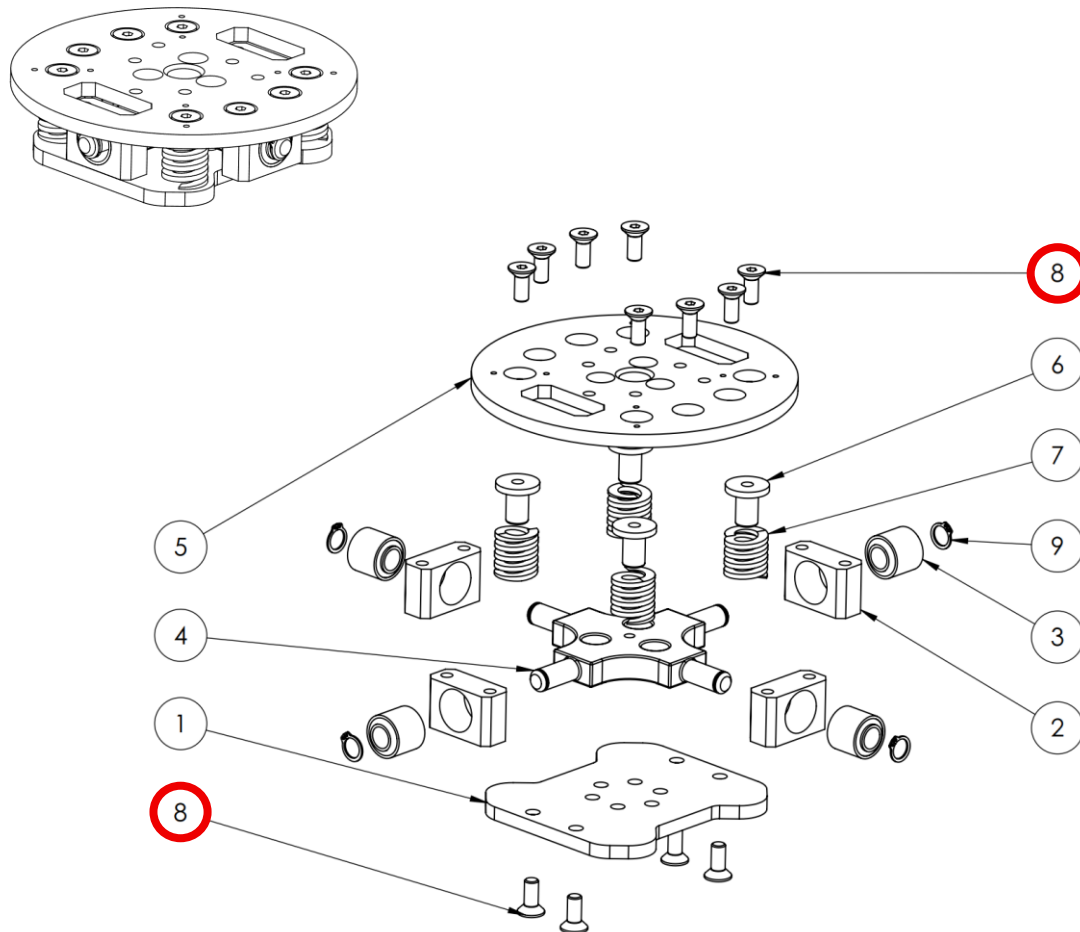
BG.6A001.00 – DRUM SHEAVE SUBASSEMBLY, 6K

Item No.	Part Number	Description	Qty.
1	BG.60030.00	SPINDLE, STATIONARY DRUM SUBASSEMBLY 6K	1
2	BG.60032.50	RETAINER, OUTER 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

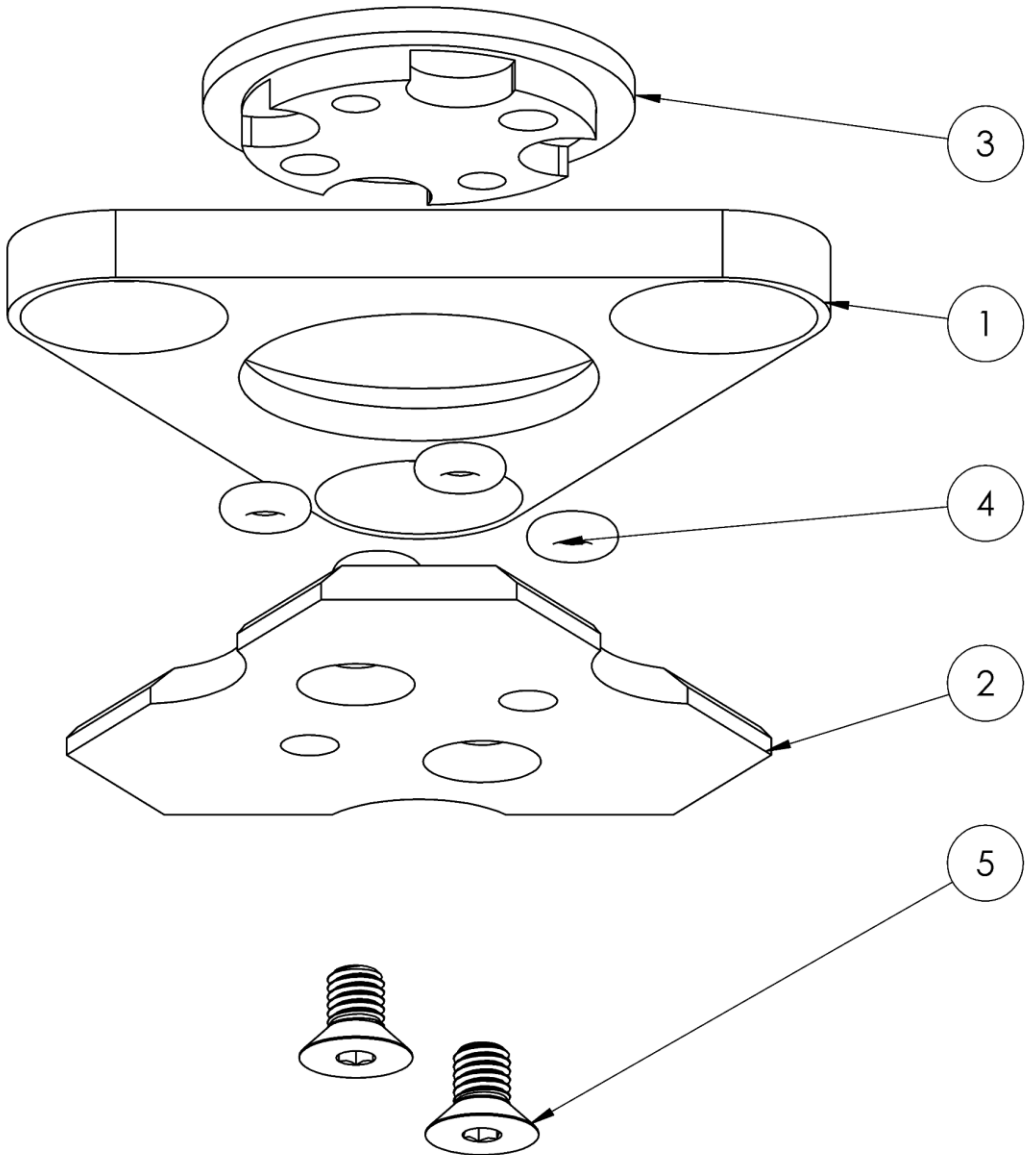
Item No.	Part Number	Description	Qty.
1	BG.20100.50	PLATE, DRIVING /BG6K BG8K BG5K	1
2	BG.20103.00	YOKE, SUSPENSION /BG6K BG8K	4
3	BG.20109.00	BUSHING, YOKE /BG6K BG8K	4
4	BG.20102.01	ELEMENT, CENTER STUDDED	1
5	BG.20101.01	BLANK PLATE, DRIVEN /BG5K BG6K(STEEL)	1
6	BG.20106.25	POST, SPRING /BG6K 8K	4
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

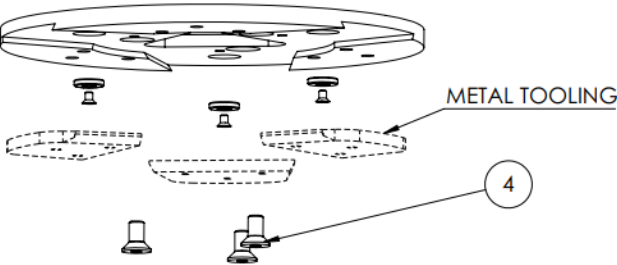
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	51-3340	TOOLING TRIANGLE BASE 650	1
2	51-3341	TRIANGLE HOLDER 650	1
3	51-0110	TRIANGLE HOLDER CENTER ROTATOR	1
4	13-0142	O-RING (.125 ID X .313 OD X 0.94 W)	4
5	12-0581-10	FLAT HEAD - M5X10 -SS	2



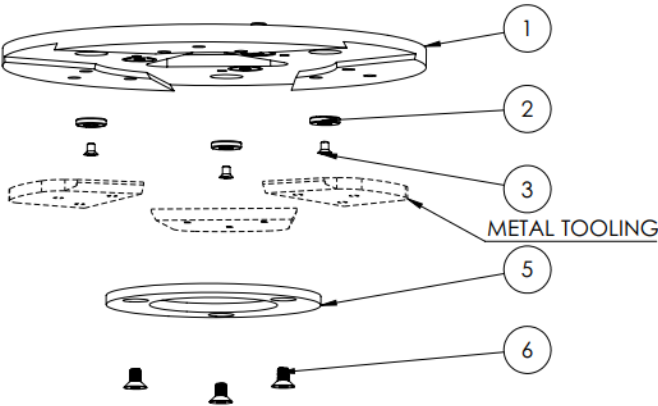
96-0786 - METAL TOOLING KIT – 650 – D

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

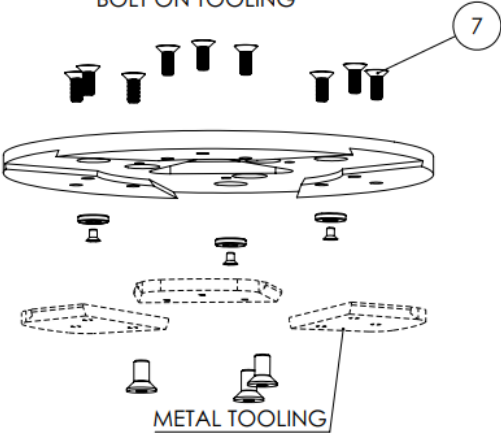
SLIDE IN TOOLING
(WITH LOCKING TRANSPORT SCREWS)



SLIDE IN TOOLING
(WITH LOCKING RING AND TRANSPORT SCREWS)

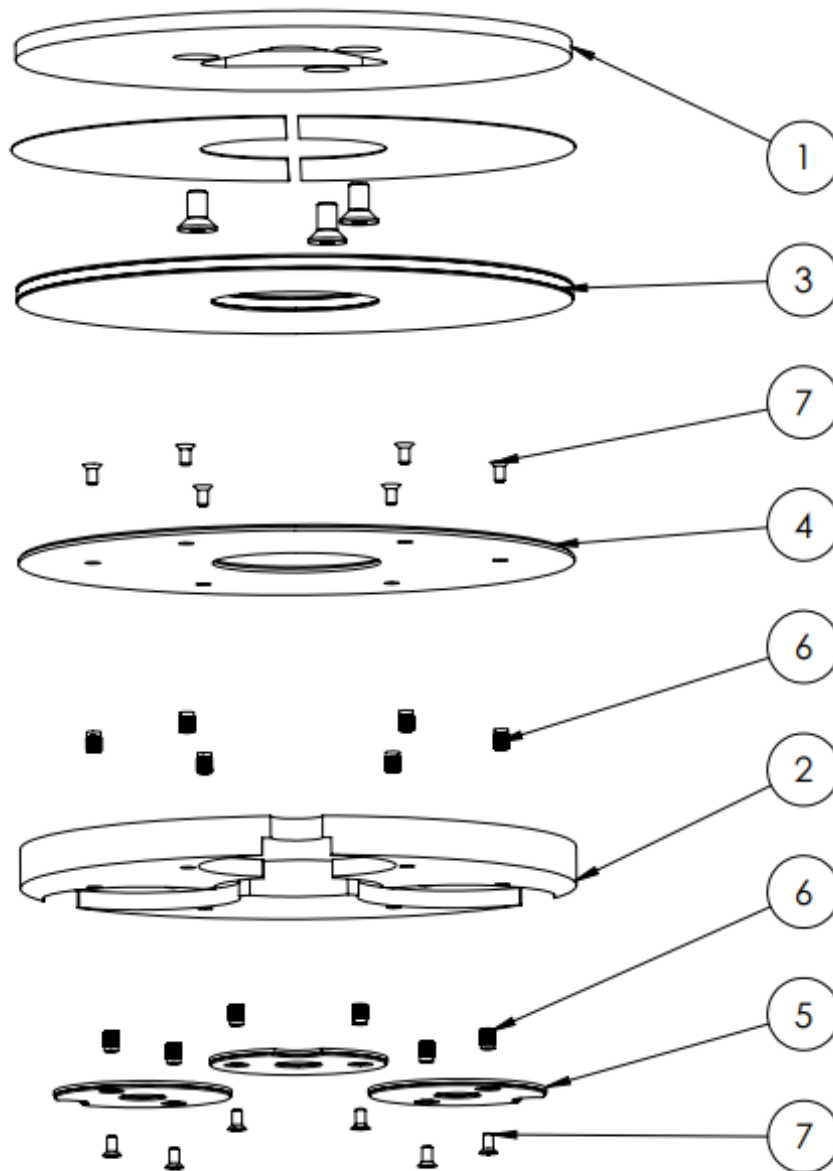


BOLT ON TOOLING



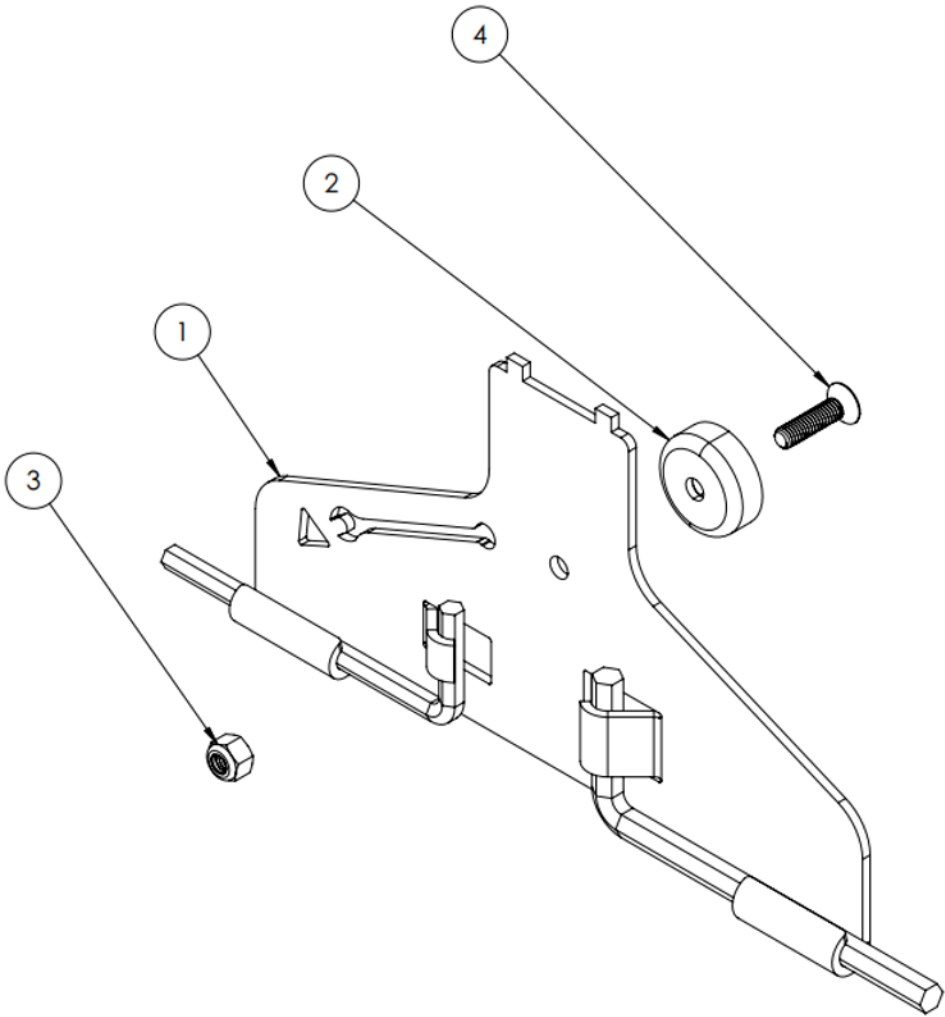
96-0787 RESIN TOOLING PLATE ASSEMBLY 3IN 650 – A

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



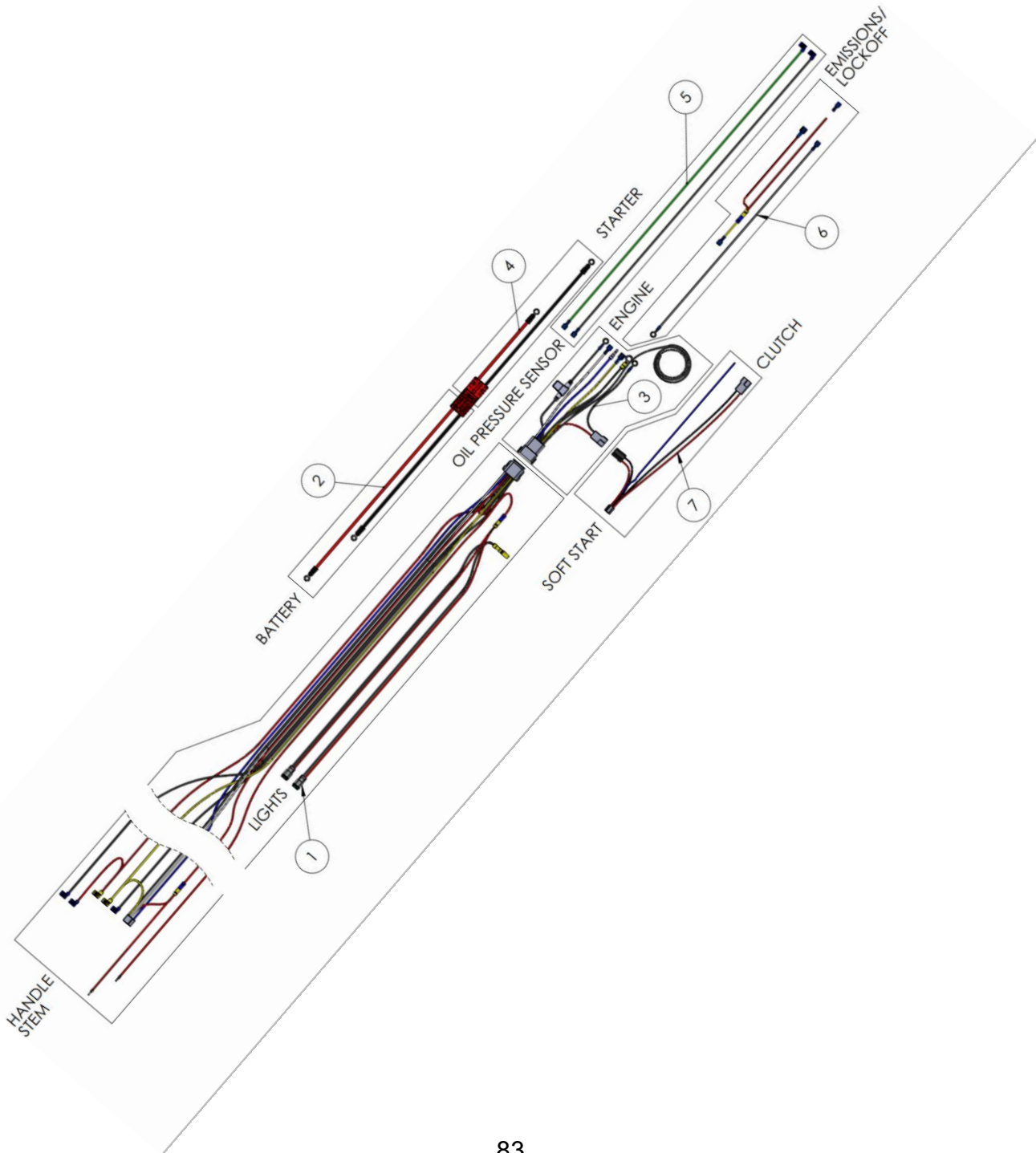
96-0456 – TOOLING WRENCH

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

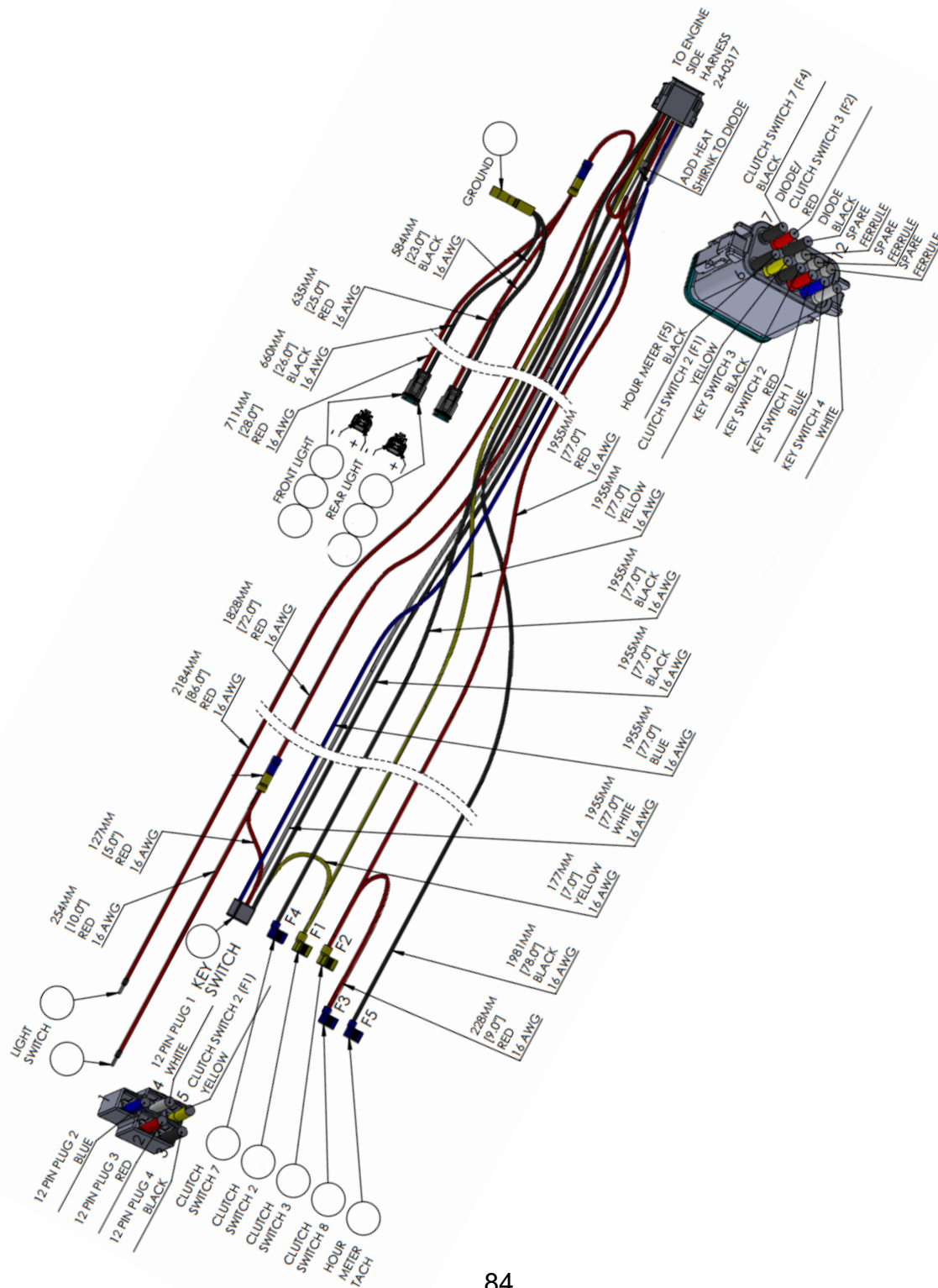


WIRING HARNESS 650PRO KIT

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	24-0305	WIRING HARNESS 650PRO	1
2	24-0307	BATTERY CABLE 1X BATTERY 650PRO	1
3	24-0317	ENGINE SIDE HARNESS 650PRO AND 800PRO	1
4	24-0309	BATTERY CABLE ENGINE SIDE 650PRO & 800PRO	1
5	24-0311	OIL PRESSURE HARNESS 800PRO	1
6	24-0310	POWER SPLITTER HARNESS 800PRO AND 650PRO	1
7	23-0251	SOFT START HARNESS 650PRO	1

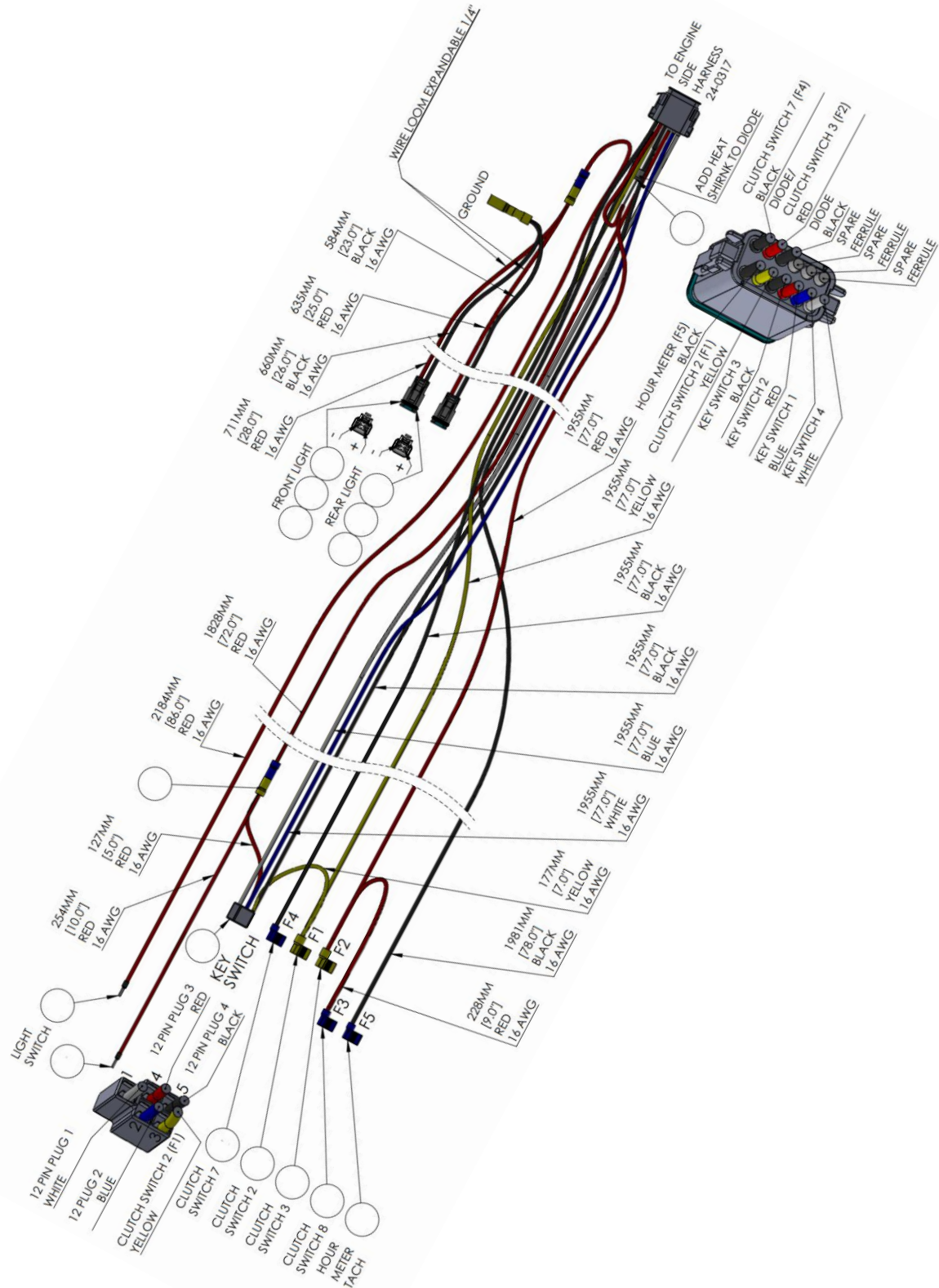


Note: Machines before 745513 will need to also order key switch 22-0102 when replacing wiring harness.

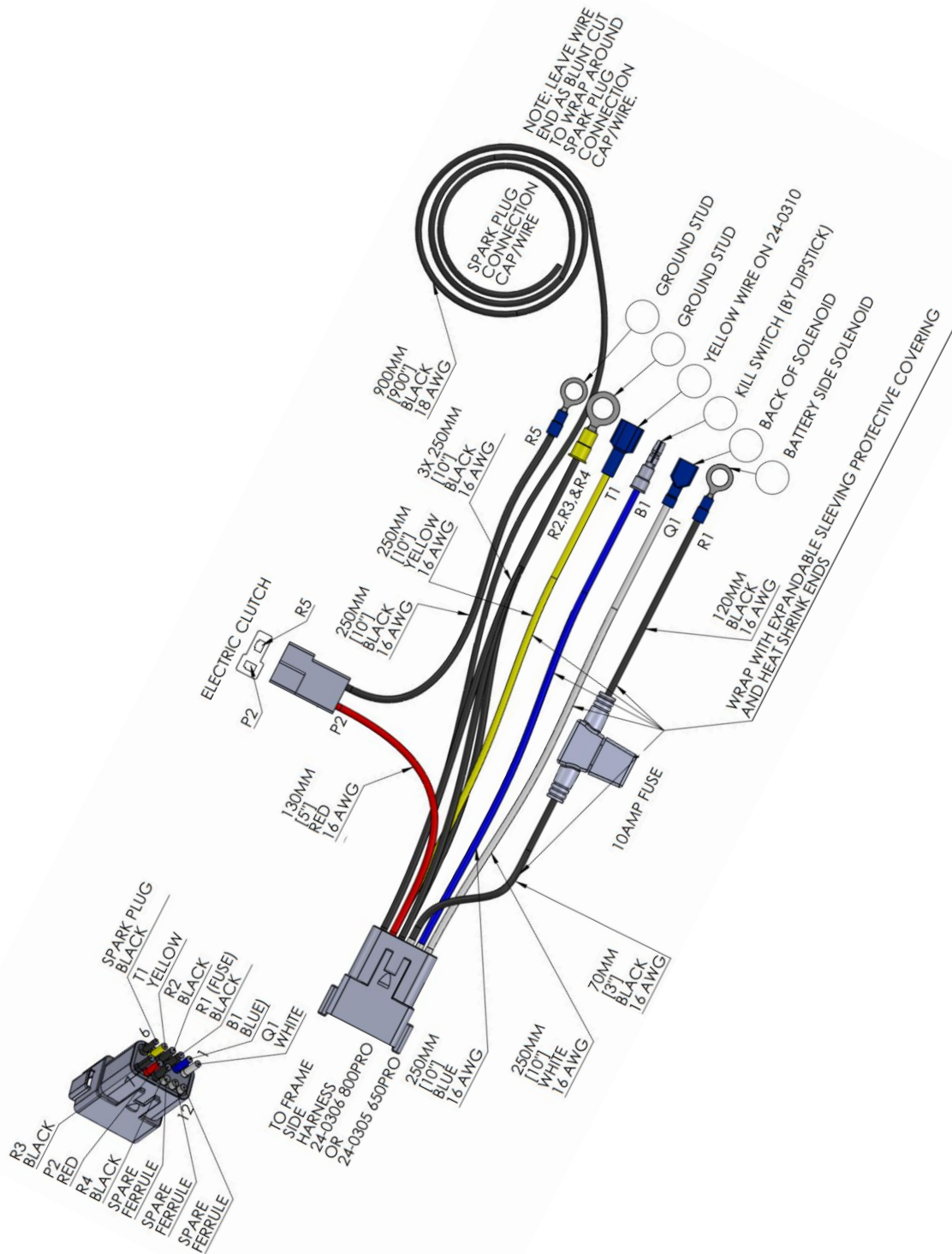


24-0305 – WIRING HARNESS 650PRO - C

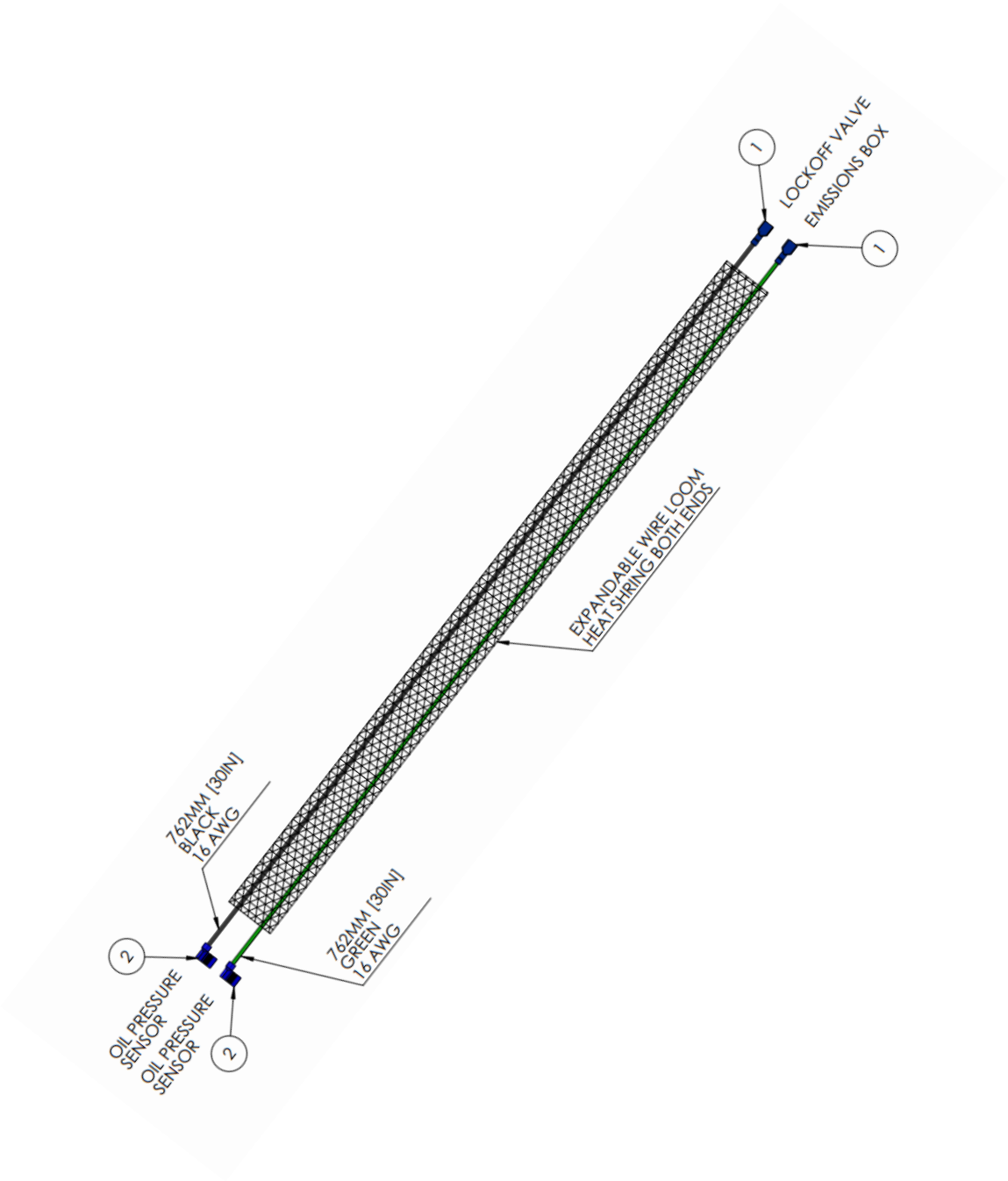
Machine Serial numbers 745513 and after



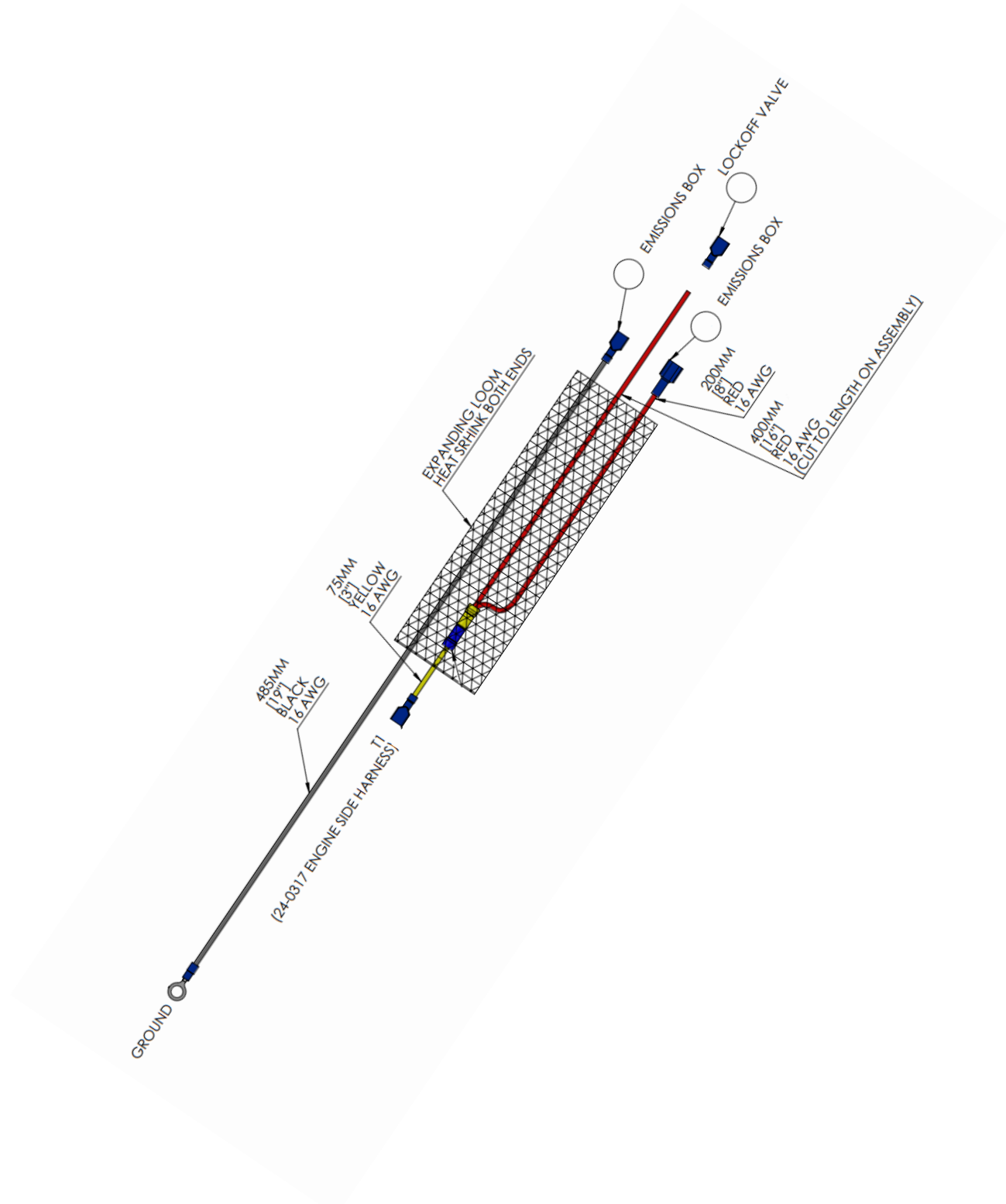
24-0317 – ENGINE SIDE HARNESS 650PRO AND 800PRO/650PRO



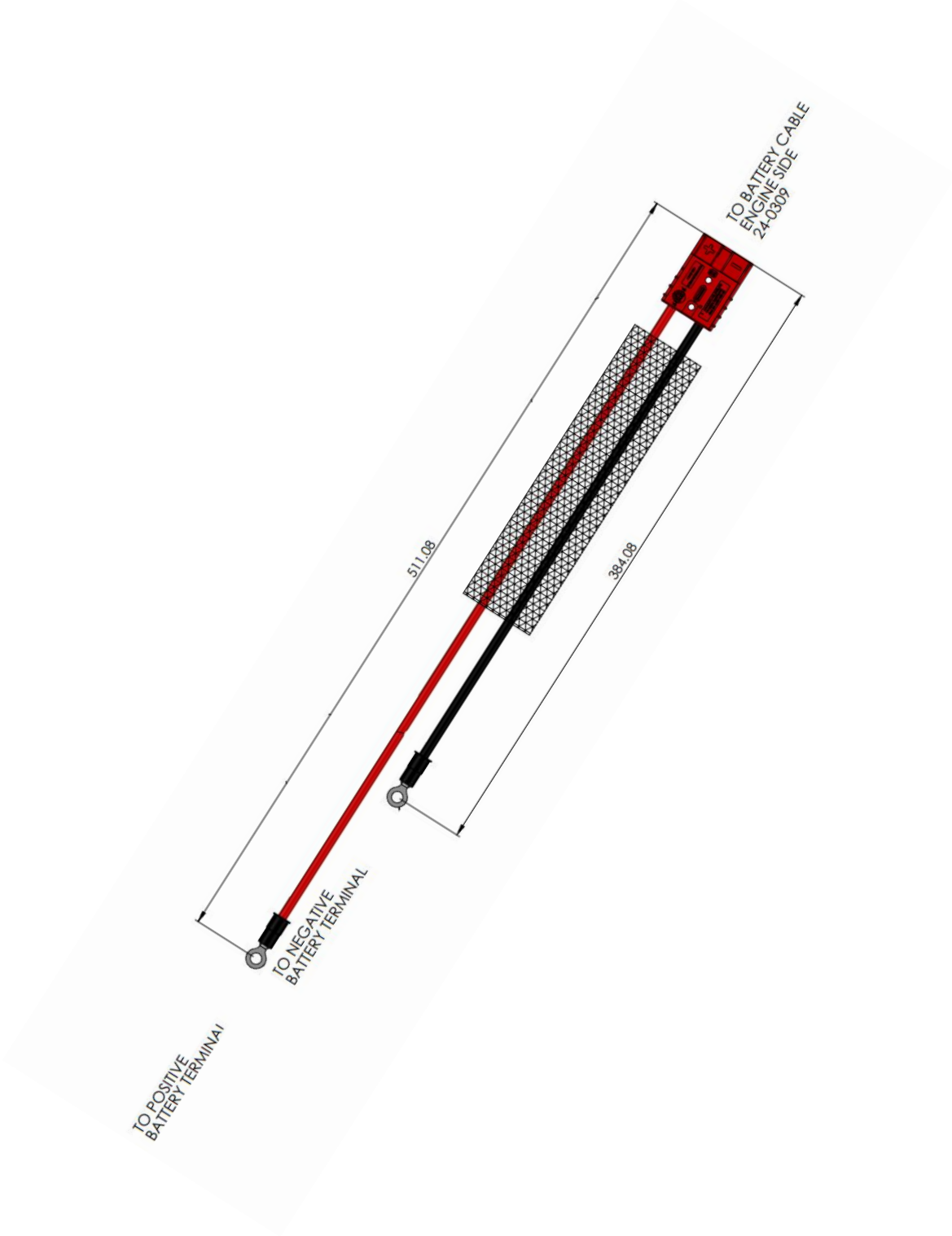
24-0311 – OIL PRESSURE HARNESS 800PRO/650PRO



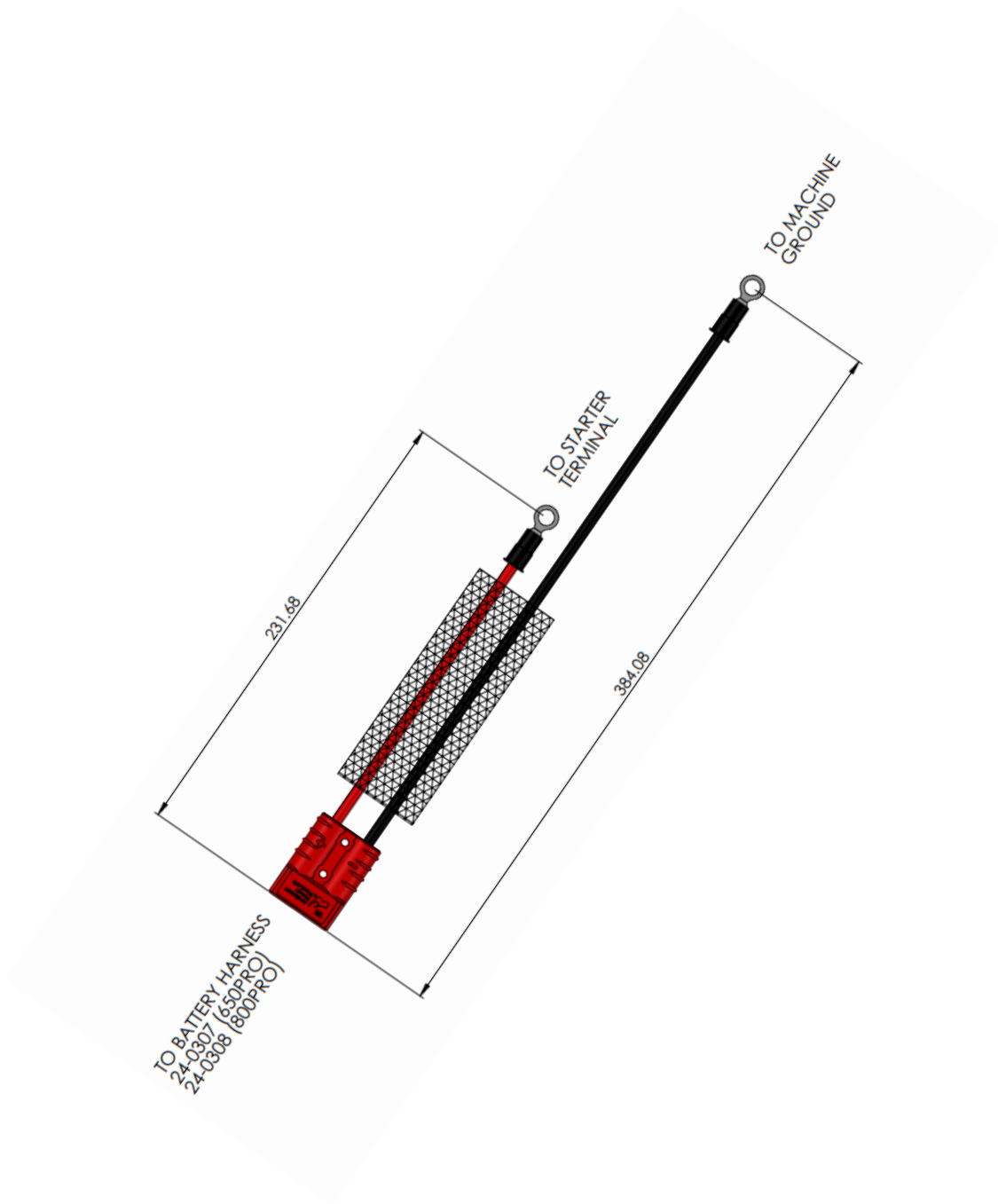
24-0310 – POWER SPLITER HARNESS 800PRO/650PRO



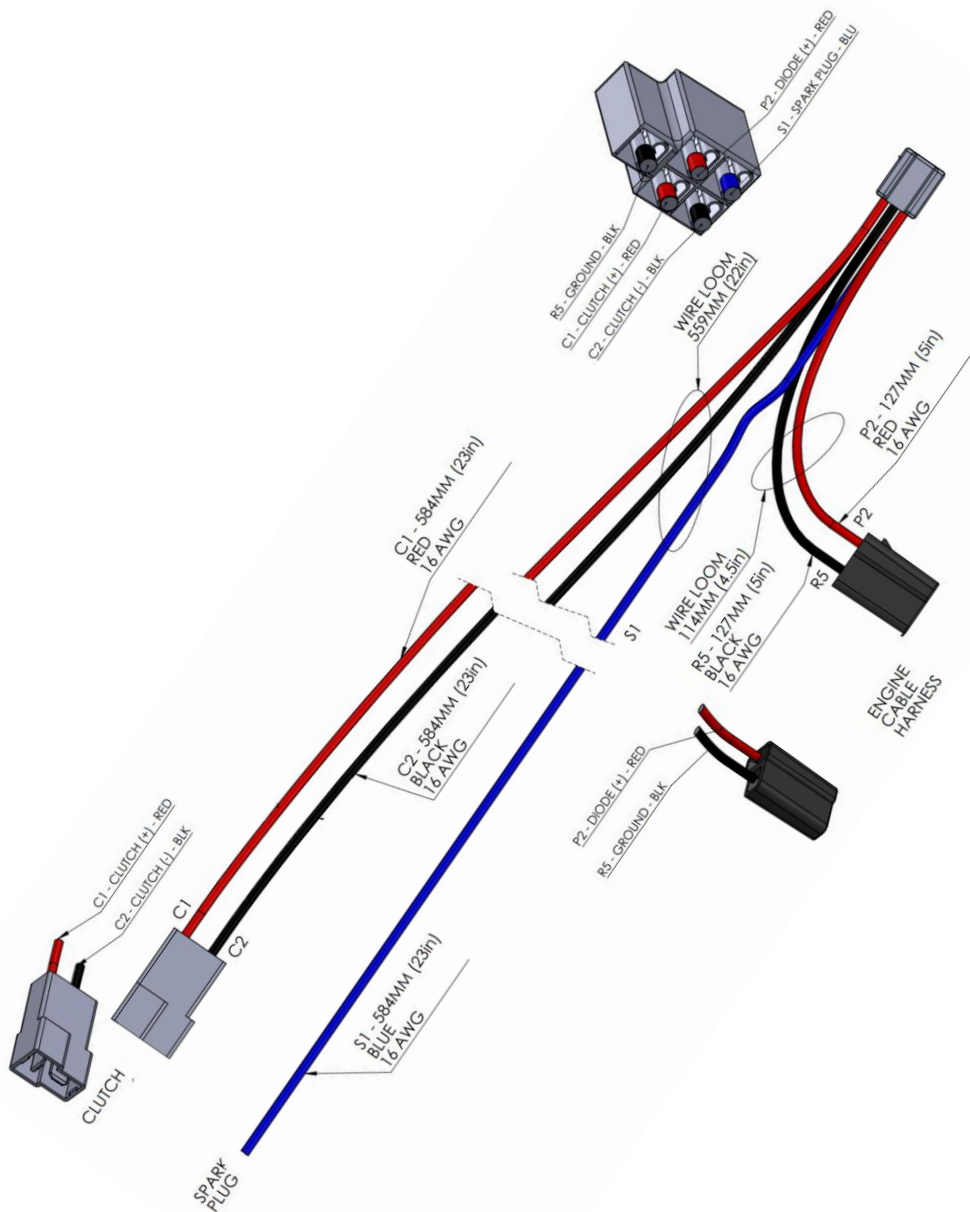
24-0307 – BATTERY CABLE 1X BATTERY 650PRO



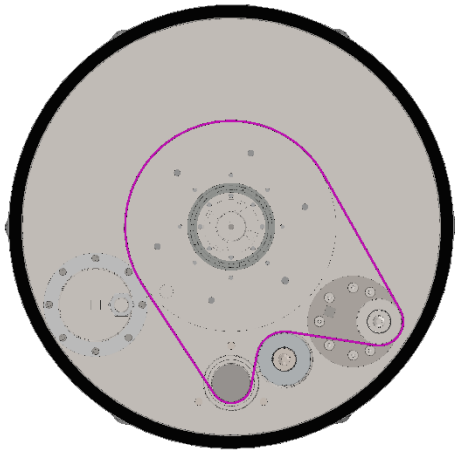
24-0309 – BATTERY CABLE ENGINE SIDE 650PRO & 800PRO



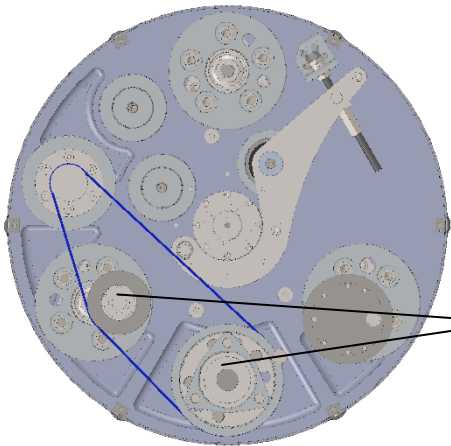
23-0251 - SOFT START HARNESS 650PRO



BELT TENSIONS

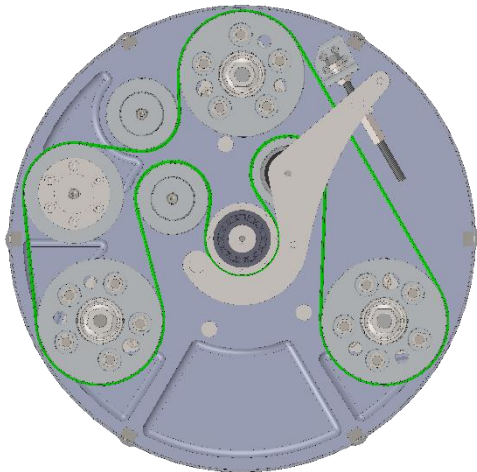


TOP BELT
BG.60058.00
196-212 HZ



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



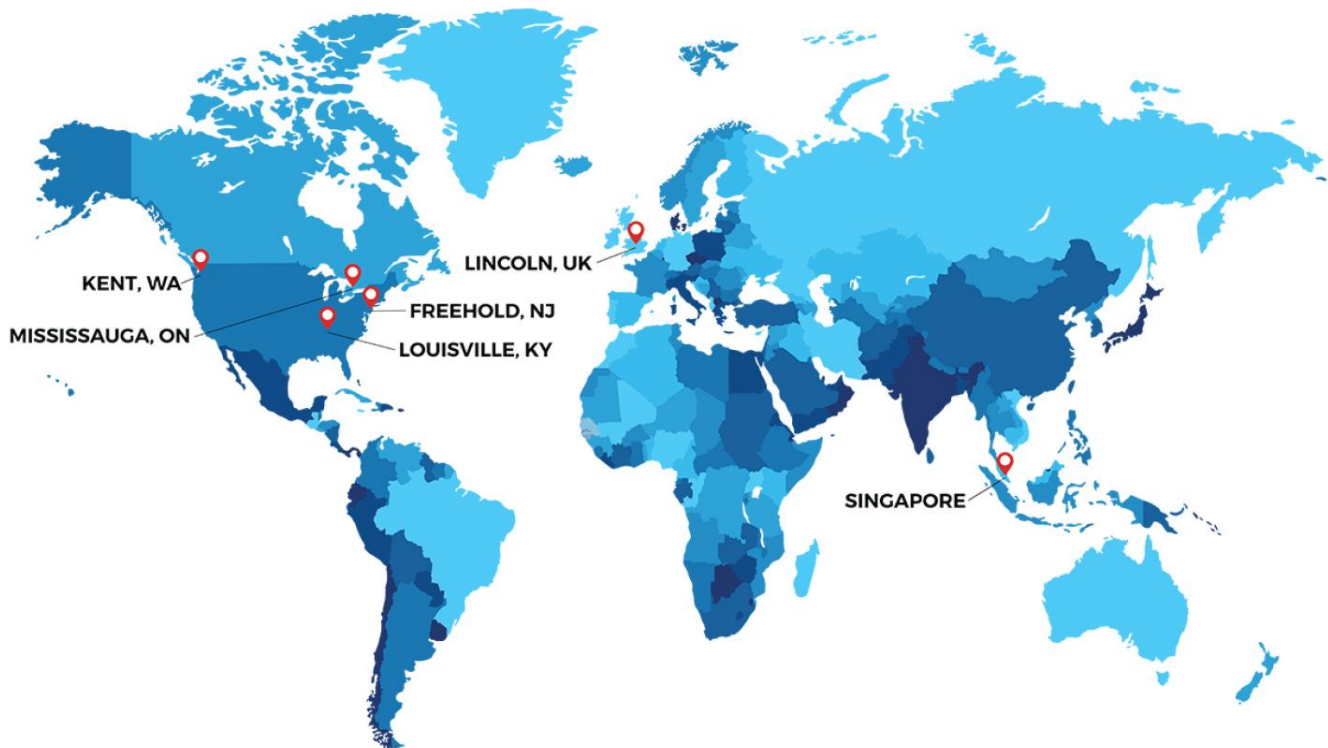
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