BRUSH BANDIT

BUILT WITH QUALITY AND DESIGN FIRST

STUMP GRINDER
MODELS 2600/2700
OPERATING & PARTS MANUAL

ATTENTION:

Depending on what replacement parts you are ordering, we will need the following information:

GRINDER COMPONENTS
Serial Number
Model Number of Grinder

ENGINE COMPONENTS
Brand
Engine Serial Number
Engine Model Number

Model No: _____

Serial No: _____

Engine Make: _____

Serial No: _____

Gear Box Make: _____

Model: _____ S/N _____

Delivery Date: _____

DEALER:

Name: _____

Address: _____

City/State: _____

Phone No: _____

MANUFACTURED BY
BANDIT INDUSTRIES, INC.
6750 Millbrook Road
REMUS, MICHIGAN, USA 49340
PHONE: (800) 952-0178 IN USA
PHONE: (989) 561-2270 OR 561-2272
FAX: (989) 561-2273 ~ SALES DEPT.
FAX: (989) 561-2962 ~ PARTS/SERVICE
E-MAIL: www.banditchippers.com

IT IS VERY IMPORTANT THAT THIS FORM IS FILLED OUT COMPLETELY & ACCURATELY. IF WE CANNOT READ THE PURCHASER'S INFORMATION OR IT IS INCORRECT, OUR CUSTOMER LIST WILL NOT BE ACCURATE.

IMPORTANT - THIS FORM MUST BE RETURNED TO THE CUSTOMER DATA DEPARTMENT WITHIN TEN (10) DAYS IN ORDER TO VALIDATE WARRANTY

Customer Data Department
6750 Millbrook Road
Remus, MI, USA 49340
Phone: (800) 952-0178 in USA
Phone: (989) 561-2270
Fax: (989) 561-2273
E-mail: www.banditchippers.com

WARRANTY VALIDATION FORM (STUMP GRINDER)

PURCHASER / OWNER INFORMATION:

Company Name _____ Contact Name _____

Mailing/Street Address _____ City _____

State _____ Zip Code _____ Phone Number (___) _____

E-mail _____ Machine Model No. _____ Serial No. _____

Date Put Into Service _____ Machine Hours _____ Engine Make _____

Engine Serial No. _____

DEALER / SELLER INFORMATION:

Dealer/Seller Name _____ Contact Name _____

Mailing/Street Address _____ City _____

State _____ Zip Code _____ Phone Number (___) _____

1. ____ Customer has been instructed and understands operation and all safety aspects of operating the equipment.
2. ____ Customer has been instructed and understands that everyone within 100 feet (30 m) of machine must wear personal safety equipment (i.e. hard hat, face shield, safety glasses, gloves, ear protection, etc.)
3. ____ Customer has been instructed and understands equipment maintenance schedules, procedures, and that it is their responsibility to perform maintenance (i.e. retightening all fasteners as needed, clutch and belt adjustments, etc.)
4. ____ Customer has been advised and understands not to reach near the cutter head with hands or feet or to be located near the debris field with engine running. The machine operators must always be located within easy reach of all control and shut down devices.
5. ____ Customer understands to not start grinding a stump without checking for power lines, water lines, sewer lines, phone lines, etc.
6. ____ Customer understands the purpose of and how to operate the shut down/shut off devices, and will not attempt to override any safety devices or guards.
7. ____ Customer has been instructed and understands to always remove the ignition key and completely disconnect battery from cables, wait for the cutter head to come to a complete stop, and to install the cutter head lock before performing any type of maintenance on the machine. Allow all the time necessary for the cutter head to come to a complete stop before opening the cutter head guard or starting any maintenance or service procedures. Customer has been shown and understands the purpose of the beltshield inspection hole and to not attempt any maintenance until belts are visually confirmed to have come to a complete stop.
8. ____ Customer has been instructed and understands: To Not operate this machine without the factory approved cutter head guard assembly in place. To Not operate this machine with any type of make shift cutter head guard. To Not operate this machine under any circumstances with the cutter guard open or unsecured.
9. ____ Customer has reviewed and understands limited warranty, and all written and visual instructions.
10. ____ Customer has received, been advised, and understands the manuals, and the Safety/Service video supplied with the grinder.
11. ____ All Danger, Warning and Operational decals are properly displayed on equipment and fully understood by customer.
12. ____ Customer has been instructed, understands, and agrees that all potential operators must: See the supplied video, be instructed on all Danger, Warning, and Operational decals, read the manual and follow the procedures.

I have inspected this equipment and find it in correct working condition. To the best of my knowledge, the customer and his/her personnel are aware of, and agree to the above procedures.

Signed: _____ **Date:** _____

(Dealer Representative)

The equipment has been thoroughly checked by the above named dealer representative, and I am satisfied with his/her instructions. I have also read, understand, and agree to reverse side of page.

Signed: _____ **Date:** _____

(Customer)

OPERATING INSTRUCTIONS BRUSH BANDIT STUMP GRINDERS

SAFETY ALERT SYMBOLS AND NOTATIONS

Signal Word	Likelihood of Occurrence	Degree of Potential Injury or Damage
⚠ DANGER	Will occur if warning is ignored	Severe
⚠ WARNING	Can occur if warning is ignored	Severe
⚠ CAUTION	Will or can occur if warning is ignored	Minor to Severe
NOTICE	Important, but not hazard related	Minor

THIS IS GENERAL INFORMATION REVIEW, UNDERSTAND AND FOLLOW DETAILED INFORMATION IN MANUALS AND DECALS AT ALL TIMES

⚠ DANGER

This machine is equipped with safety decals, guards and designs for your protection.

Don't ever take the machine for granted, always be cautious and careful when operating your equipment.

Read and follow all the instructions in your manual thoroughly. Your safety is dependent on your knowledge of how to operate and maintain this machine. You may obtain additional copies of this manual from your Bandit Dealer.

Before operating machine, you must have all potential operators; read and understand manuals and decals, watch the video and follow the recommendations.

Regardless of how hard a manufacturer tries to produce a safe machine, accidents still happen. Normally accidents are caused by people making mistakes. They do not read the manual, they ignore warning decals or do not use lockouts provided for their safety. This normally happens after the person has become accustomed to the machinery. In the initial start up and operation of the machinery, they are cautious, they are very careful because they do not understand the machine.

This equipment is intended for use by personnel who are experienced with similar equipment. Always operate safely. There should be at least two qualified and trained operators at the work site. They should be positioned in safe working locations, following safety procedures and instructions, and aware of each others whereabouts. There should, also, be at least two people on site during maintenance and service procedures in case an accident should occur. Never operate any machine while under the influence of drugs or alcohol.

Keep children, bystanders and animals clear of working area. Never operate equipment that is in need of repair or adjustment.

⚠ DANGER

Torn or loose clothing is more likely to get caught in moving machinery parts. Keep such items as long hair, shirt sleeves, and shirt tails properly contained. Avoid wearing necklaces, rings, watches, and especially neckties while operating this machinery. Make sure the machine is in excellent condition, and all the guards are in place, tight and secure.

Wear all personal protection equipment and follow all safety standards per ANSI and OSHA instructions. Examples of equipment: hard hat, face shield, safety glasses, gloves, ear protection, etc. Always keep a fully charged fire extinguisher with the machine while operating or servicing the machine.

⚠ DANGER

Never go near cutter wheel or teeth while engine is running or cutter wheel is coasting to a stop.

⚠ DANGER

Before starting the machine, take a minute to check a few things. The grinder should be in an area restricted from people passing by. This area around the grinder must be free of all objects that can obstruct your movement when working with the grinder. The machine should be checked for loose tools or foreign objects, especially in the grinding area. All tools not in use should be secured in a tool box.

⚠ DANGER

Do Not start to grind a stump unless you are completely sure there are not any power lines, water lines, sewer lines, phone lines, etc. in the area above or below the ground level where you are grinding.

⚠ DANGER

Do not go near or in-line with the debris field of the stump grinder while in operation. While grinding stumps, the chips and portions of the stump fly from the cutter wheel and can cause severe injury.

⚠ WARNING

Operators **must** at all times be located within easy reach of all feed control and shut-off devices when the unit is running. They must be attentive and prepared to activate the devices.

⚠ DANGER

Never grind materials that might contain wires, stones, nails, or other metal objects which may damage the teeth and become dangerous projectiles. Remove all rocks and stones from stump grinding area.

⚠ DANGER

Before attempting any type of maintenance disengage clutch, turn off engine, wait for the cutter wheel to come to a complete stop, install the cutter wheel lock pin, disconnect battery, and make sure the ignition key is in your possession.

ALWAYS install the lock pin into the cutter lock tube before working on the grinder.

Simply slide the lock pin into the cutter wheel lock tube. This is to ensure that the cutter wheel cannot be started while you are working on the grinder. If for some reason the cutter wheel would start to turn, it would simply hit the lock pin.

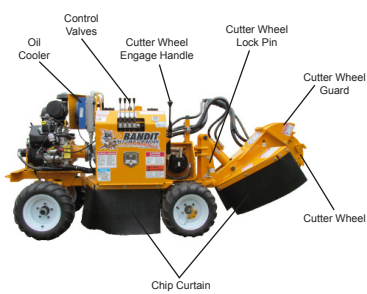
⚠ WARNING

It is very important after you have operated a new machine for approximately an hour to shut down the machine and recheck all nuts and bolts. It is normal for nuts and bolts to loosen once on a new piece of machinery. If you tighten them now, there is a good possibility they won't loosen again. Certain nuts and bolts should be checked periodically such as cutter teeth bolts, etc. for torque and fit.

Most of the nuts used on the Bandit Grinder are self locking. After a nut or bolt has been removed five times, it should be replaced to ensure proper tightness. This is especially critical on the cutter tooth bolts!

After the engine is started, let the grinder wheel turn at the lowest RPM's possible. Listen for any type of noise that is foreign. Any steel on steel noise is foreign. If you hear a noise, stop the engine, find the problem and fix it.

START-UP PROCEDURES



Position the engage handle in the disengaged position and start the engine. Let the engine warm up at 1000 RPM's. (Follow engine manual information.) The machine may show signs of vibration until the engine can set at full throttle. The engine causes most of this vibration until it is brought up to full throttle. Engage cutter wheel.

Once the engine is properly warmed up, bring the engine to full throttle. (Follow engine break-in procedures.)

Make sure to wear all personal protection equipment and follow all safety standards per ANSI and OSHA instructions. Examples of equipment: hard hat, face shield, safety glasses, gloves, ear protection, etc.

TO BE RETURNED AFTER THIRTY (30) DAYS OF OPERATION

DATE PURCHASE: _____

MODEL: _____

SERIAL NUMBER: _____

DEALER NAME: _____

_____

Please return to: Customer Data Department
6750 Millbrook Road
Remus, MI 49340

Phone: (800) 952-0178 in USA
Phone: (989) 561-2270
Fax: (989) 561-2273
E-mail: www.banditchippers.com

STUMP GRINDER QUALITY REPORT

All of the employees that build your equipment strive to manufacturer the **very best quality** product on the market. We would appreciate your efforts in letting us know how we are doing.

We would like you to operate your machine for thirty (30) days and then fill out this questionnaire and mail it to us. This will help us to keep producing a good product and improving our products through your recommendations.

1. Did your machine perform to your expectations? _____
2. Was the machine delivered on schedule? _____
3. Was the paint color and finish to your satisfaction? _____
4. Was machine equipment as ordered? _____
5. Did all welds appear to be high quality? _____
6. Was the overall machine to your liking? _____
7. What problems have you experienced? _____
8. Have any components regularly loosened that caused problems? _____
9. Does the hydraulic system seem to have adequate power? _____
10. Is the machine manufactured to accommodate service in an adequate manner? If not, please explain:
    _____
11. General comments and/or suggestions: _____
    _____
    _____
12. Would you like to be contacted concerning more of our equipment? _____

YOUR COMPANY: _____

NAME: _____

ADDRESS: _____

CITY: _____

STATE & ZIP: _____

PHONE: (____) _____

E-MAIL: _____


BANDIT INDUSTRIES INC.
®
MADE IN THE USA

TABLE OF CONTENTS

NOTICE

ANY PART, PORTION, DESIGN, NUMBER, SPECIFICATION, AND/OR DIMENSION IN THIS MANUAL IS SUBJECT TO CHANGE WITHOUT NOTICE BY THE MANUFACTURER.

INTRODUCTION

The purpose of this manual is to provide the user with specifications and procedures for the operation, maintenance and repair of this BANDIT product. As with any piece of equipment, safety should always be a constant thought while the machine is being operated, serviced or stored. In order to highlight this consideration, the material which addresses safety is proceeded by the following signal words:

Signal Word	Likelihood of Occurrence	Degree of Potential Injury or Damage
⚠DANGER	Will occur if warning is ignored	Severe
⚠WARNING	Can occur if warning is ignored	Severe
⚠CAUTION	Will or can occur if warning is ignored	Minor to Severe
NOTICE	Important, but not hazard related	Minor

The equipment is designed and manufactured in accordance with the latest product industry standards. This alone does not prevent injury. It is the operator's responsibility to use good judgement and follow the warnings and instructions as indicated in this manual, on the machine and follow all safety standards per ANSI and OSHA instructions.

⚠WARNING

Improper use of the product can result in severe personal injury. Personnel using the equipment must be qualified, trained and familiar with the operating procedures as defined in this manual, prior to operating the product.

⚠WARNING

It is the responsibility of the owner or employer to ensure that the operator is trained and practices safe operation while using and servicing the machine. It is also the owner's responsibility to provide and follow a regularly scheduled preventative maintenance and repair program on the product, using only factory approved replacement parts. Any unapproved repairs or modifications may not only damage the machine and its performance, but could result in severe personal injury. Unapproved repairs or modifications will void warranty and eliminate manufacturer of any liability claims. Consult the equipment manufacturer!!!

Each machine is shipped with a manual, a customer's check sheet on the product, and any available parts & service manuals on component parts not produced by this manufacturer. Additional copies of these manuals and check sheets can be purchased from the manufacturer, or through the dealer. Engine parts, service and maintenance manuals MUST be purchased through the engine manufacturer or their dealer.

NOTICE

The producer of this Bandit product reserves the right to make any modifications or revisions to the design or specifications of its machine without advance notice. The producer also reserves the right to change machine and part prices as needed without advance notice.

BANDIT INDUSTRIES, INC.

EXPLANATION OF LIMITED WARRANTY

The manufacturer will not reimburse the customer or dealer labor costs incurred for installing "bolt-on" or "slip-on" items, such as hydraulic pumps and motors, control valves, flow dividers, belts, sheaves, etc. The manufacturer will provide replacement parts to the customer for defective parts during the warranty period. The manufacturer will not reimburse the customer or dealer unless prior approval has been made for expedited shipping charges for defective parts during the warranty period. **Defective parts must be returned to Bandit Industries, Inc.** It will be the customer's responsibility to install the replacement parts unless arrangements are made with the selling dealer.

The manufacturer will not reimburse travel costs to servicing dealer unless prior approval has been obtained from the manufacturer. It is the customer's responsibility to deliver the machine to dealer's service facility, unless other arrangements have been agreed to between selling dealer and customer.

The manufacturer may elect, at its discretion, to reimburse reasonable labor costs to customer or dealer for major defect repairs. Diagnostic labor and overtime labor will not be covered under warranty. Prior approval must be obtained from Bandit Industries, Inc.

There are several forms that must be completely filled out and returned to us in reference to our portion of warranty. Read and understand the Bandit Limited Warranty responsibilities. Some components on your machine are covered by their respective manufacturers and cannot be handled through Bandit Industries as stated in Warranty Section of this manual.

Use this manual to help you resolve what and where your problem is, in most cases you can fix it easily. If you still have problems, work through the dealer you purchased the machine through, or contact Bandit Industries direct if needed.

Make sure the following forms are used, for us as well as you, to keep track of service and pending warranty request. It is our company policy that all parts shipped out will be invoiced until the possible warranty parts are returned with a Warranty Claim Form completed for consideration.

Make sure the Warranty Validation Form is completed and sent in to us as soon as you receive the Bandit. This will activate our warranty responsibilities.

If Warranty Validation Form is not on file, all Warranty consideration is null and void.

NOTICE

Prior to delivery to final owner and during storage, this machine must be serviced and lubricated to avoid damage that will not be covered under warranty, see "Lubrication & Coolant" page.

Also, damage or premature failure of equipment components because of incorrect or incomplete service and maintenance by the equipment owner will not be covered under warranty.

All controls, safety devices, guards, and shields must be correctly operational and securely in place at all times during equipment operation.

BANDIT INDUSTRIES INC. LIMITED WARRANTY
(989) 561-2270

Bandit Industries Inc., also referred to as “Manufacturer” warrants this new product to be free of defects in workmanship and material for a period of 1 year or 2000 operating hours, which ever comes first.

This warranty takes effect upon delivery to the original retail purchaser. The manufacturer at it’s option will replace or repair at a point designated by the manufacturer, any parts which appear to have been defective in material or workmanship. The manufacturer is not responsible for labor, consequential damages, traveling or down time expenses.

This warranty and any possible liability of Bandit Industries Inc., is expressly in lieu of any other warranties, expressed or implied, including but not limited to, any implied warranty or merchantability of fitness for a particular purpose and of any noncontractual liabilities including product liabilities based upon negligence or strict liability. Bandit Industries Inc., will not be liable for consequential damages resulting from breach of warranty.

All parties involved agree that the Owner’s Sole and Exclusive Remedy against the Manufacturer, whether in contract or arising out of this warranty, instructions, representations, or defects shall only be for the replacement or repair of defective parts as provided herein. In no event or circumstances shall the Manufacturer’s liability exceed the purchase price of the machine. The buyer also agrees that no other remedy (including but not limited to consequential or incidental loss) shall be available to him or her.

It is absolutely necessary to return the Warranty Validation Form, completely and accurately filled out, and notify Bandit Industries Inc., in writing within ten (10) days from the date of purchase to validate this warranty. If Warranty Validation Form is not on file, all Warranty Consideration is NULL AND VOID.

This warranty will <u>not</u> apply if the Bandit product is not operated with replacement parts or equipment <u>not</u> manufactured or recommended by Bandit Industries, Inc.

This warranty will not apply if the Bandit product is not operated in a manner recommended by the manufacturer. The following examples would void the warranty:

1. The completed Warranty Validation Form is not on file.
2. The Bandit product has been abused, or not serviced properly.
3. Repairs or attempted repairs made without prior written authorization.
4. Repairs made due to normal wear are not warrantable.
5. The Bandit product was involved in, or damaged by an accident.
6. The Bandit product was damaged from any type of foreign material.

The owner is responsible for all scheduled maintenance as explained in the Operators Manuals. Negligence of proper maintenance or any other negligence, accident or fire; nor with failure to adjust, tighten, or replace wear items included but not limited to items such as teeth, teeth holders, belts, lubrication fluids, bearings, filters, hydraulic components, loose nuts or bolts, etc. may void warranty.

All components and parts being returned to Bandit Industries for warranty consideration must be complete and assembled when delivered. Hydraulic components and parts must be returned assembled with all fluid ports capped or plugged and free of foreign contamination, or warranty will not be considered.

BANDIT INDUSTRIES, INC. LIMITED WARRANTY
(989) 561-2270

NOTICE This warranty applies only to new and unused equipment or parts thereof manufactured by Bandit Industries Inc. and is void if the machine is operated with replacement parts or equipment not manufactured or recommended by Bandit Industries Inc.

All other components are warranted by their respective manufacturers (i.e. engines, axles, hydraulic pumps and motors, clutches, tires, batteries, etc.) Any machines used for lease or rental purposes warranty is limited to 90 days from the first day of initial service.

NOTICE **Clutch maintenance and adjustments and engine maintenance (air filter maintenance, oil changes, oil filter maintenance, etc.) are important to your machine. Refer to the clutch or engine manual for the maintenance schedule. Failure to perform the clutch or engine maintenance will void the warranty with the respective manufacturer, Bandit Industries Inc. does not warranty these components!**

CONTINENTAL U.S. INFORMATION PHONE NUMBERS FOR ACCESSORIES (NOT COVERED UNDER PRODUCT WARRANTY PROGRAM)

Briggs & Stratton (Vanguard) Engines	1-414-259-5333	PGL Auto Clutch	1-800-551-2938
Caterpillar Engines (Thru 275Hp)	1-800-551-2938	PT Tech Clutch	1-330-414-3172
Caterpillar Engines (300Hp & Up)	1-866-228-2111	NACD, Rockford Clutch	1-800-383-9204
Continental Engines	1-800-726-8870	Twin Disc Clutch	1-262-638-4000
Cummins Engines	1-248-573-1592	Electronic Solutions	1-866-736-6839
Deutz, Lombardini Engines	1-800-445-5273	I.E.C. (formerly E.S.I.)	1-815-985-0383
Ford, Hatz Engines	1-800-726-8870	L.O.R. MFG.	1-866-644-8622
GM, Perkins Engines	1-800-551-2938	Miratron Inc.	1-866-285-0132
Honda Engines	1-734-453-6258	Omnex Radios	1-419-294-4985
John Deere Engines	1-888-803-0549	Kar-Tech, Inc.	1-262-646-9444
Kohler Engines	1-800-854-9273	Dexter Axles	1-574-295-7888
Kubota Engines	1-800-457-7056	Tires	1-989-463-4088
Robin Engines	1-248-399-0002	Caterpillar Tracks	1-309-636-1100
Wisconsin Engines	1-800-726-8870	Chermack Tracks	1-715-458-2655
Interstate Batteries	1-989-684-1382	Petro-Canada Hydrex XV	1-888-284-4572

(Phone numbers for outside the continental U.S. can be supplied from your phone directory or local Bandit dealer.)

In order to process any warranty claims, it is the owner's responsibility to report the claims promptly to the Manufacturer, or our authorized dealer from whom the equipment was purchased.

It is necessary to include the following information on any and all requests for warranty:

1. Warranty Claim Form, obtained from Bandit Industries or it's dealers, completely and accurately filled out.
2. Dealer from whom purchased.
3. Date of delivery.
4. Serial number of unit.
5. Model number of unit.
6. Engine make and serial number.
7. Length of time in use (hours on machine).
8. Date of failure.
9. Nature of failure.

Bandit Industries Inc., reserves the right to alter, improve, revise or modify any parts or products with the altered, improved, revised or modified parts or products. They also may change design, specifications, or part prices without advance notice.

Bandit Industries Inc., is NOT responsible for updating or upgrading completed machines with design changes that are made after it's production.

Bandit Industries Inc., expects the Customer/Owner to bring their machine to the Dealer/Manufacturer for Warranty Repairs. The Manufacturer DOES NOT pay Dealers or Customers for bringing their machine in for repair. Nor does the Manufacturer furnish loaner machines while the unit is being repaired.

TYPICAL SERIAL NUMBER AND/OR WORK ORDER NUMBER LOCATIONS

1. S/N on side of trailer tongue
2. W/O # on pivot mount plate

NOTICE

The engine information is located on the engine block.

SAFETY PROCEDURES

⚠DANGER

The words ⚠Danger, ⚠Warning, ⚠Caution, and Notice are used on the safety decals and throughout this manual, to make you aware of the safety procedures. These procedures are very important, read and obey them.

YOUR SAFETY IS VERY IMPORTANT TO US!

This machine is equipped with safety decals, guards and designs for your protection.

Don't ever take the machine for granted, always be cautious and careful when operating your equipment.

Read and follow all the instructions in your manual thoroughly. Your safety is dependent on your knowledge of how to operate and maintain this machine. You may obtain additional copies of this manual from your Bandit Dealer.

Before operating machine, you must have all potential operators; read and understand manuals and decals, watch the video and follow the recommendations.

Regardless of how hard a manufacturer tries to produce a safe machine, accidents still happen. Normally accidents are caused by people making mistakes. They do not read the manual, they ignore warning decals or do not use lockouts provided for their safety. This normally happens after the person has become accustomed to the machinery. In the initial start up and operation of the machinery, they are cautious, they are very careful because they do not understand the machine.

This equipment is intended for use by personnel who are experienced with similar equipment. Always operate safely. There should be at least two qualified and trained operators at the work site. They should be positioned in safe working locations, following safety procedures and instructions, and aware of each others whereabouts. There should, also, be at least two people on site during maintenance and service procedures in case an accident should occur. Never operate any machine while under the influence of drugs or alcohol.

Keep children, bystanders and animals clear of working area. Never operate equipment that is in need of repair or adjustment.

⚠DANGER

Before starting the machine, take a minute to check a few things. The grinder should be in an area restricted from people passing by. This area around the grinder must be free of all objects that can obstruct your movement when working with the grinder. The machine should be checked for loose tools or foreign objects, especially in the grinding area. All tools not in use should be secured in a tool box.

⚠DANGER

NEVER sit, stand, lay, climb or ride anywhere on this machine while it is running, operating, or in transit. You will be injured.

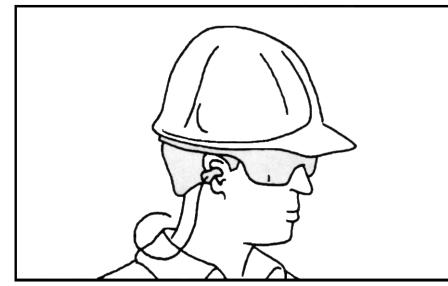
⚠WARNING

Operators **must** at all times be located within easy reach of all control and shut-off devices when the unit is running. They must be attentive and prepared to activate the devices.

⚠DANGER

Torn or loose clothing is more likely to get caught in moving machinery parts. Keep such items as long hair, shirt sleeves, and shirt tails properly contained. Avoid wearing necklaces, rings, watches, and especially neckties while operating this machinery. Make sure the machine is in excellent condition, and all the guards are in place, tight and secure.

Wear all personal protection equipment and follow all safety standards per ANSI and OSHA instructions. Examples of equipment: hard hat, face shield, safety glasses, gloves, ear protection, etc. Always keep a fully charged fire extinguisher with the machine while operating or servicing the machine.



⚠WARNING

WEAR EYE & PERSONAL PROTECTION EQUIPMENT

Wear all personal protection equipment and follow all safety standards per ANSI and OSHA instructions.

SAFETY PROCEDURES

⚠WARNING

It is very important after you have operated a new machine for approximately an hour to shut down the machine and recheck all nuts and bolts. It is normal for nuts and bolts to loosen once on a new piece of machinery. If you tighten them now, there is a good possibility they won't loosen again. Certain nuts and bolts should be checked periodically such as cutter teeth bolts, etc. for torque and fit.

Most of the nuts used on the Bandit Grinder are self locking. After a nut or bolt has been removed five times, it should be replaced to ensure proper tightness. This is especially critical on the cutter tooth bolts!

After the engine is started, let the grinder wheel turn at the lowest RPM's possible. Listen for any type of noise that is foreign. Any steel on steel noise is foreign. If you hear a noise, stop the engine, find the problem and fix it.

⚠WARNING

It is very important after you have operated a new machine for approximately an hour to shut down the machine and recheck all hydraulic fittings. Retighten as needed.

DO NOT GO NEAR HYDRAULIC LEAKS! High pressure oil easily punctures skin causing serious injury, gangrene, or death. Avoid burns from fluid. Hot fluid under pressure can cause severe burns. DO NOT use fingers or skin to check for leaks. Lower load or relieve hydraulic pressure before loosening fittings. Relieve all pressure in the system before disconnecting the lines, hoses, or performing other work. Use a piece of cardboard to find leaks. Never use your bare hands. Allow system to cool down to ambient temperature before opening any coolant or hydraulic oil system.

In cold weather situations let your hydraulic system idle for approximately 15 minutes to allow the system to warm up to operating temperature.

⚠WARNING

DO NOT operate this machine unless all hydraulic control devises operate properly. They must function, shift and position smoothly and accurately at all times. Faulty controls can cause personal injury!

⚠DANGER

Keep the machine in good condition. Be sure the machine is in good operating condition and that all safety devices, including guards and shields are installed and functioning properly. Visually inspect the machine daily before starting the machine. Refer to the "Daily Start Up & Maintenance". Make no modifications to your equipment unless specifically recommended or requested by Bandit Industries Inc.

⚠DANGER

DO NOT operate this machine indoors! Exhaust fumes can be fatal. Never refuel while the machine is running. Never refuel in the shop or building. Always refuel in a well ventilated area, away from sparks or open flames, DO NOT SMOKE. Extinguish all smoking materials. Wipe up all spilled fuel before restarting the engine. Do not fill above 1/2" (12.7mm) from top of tank.

To obtain the most from your machine, for the least amount of cost, it is a good practice to set up and follow a scheduled preventative maintenance program. It will eliminate many possible problems and down time.

CALIFORNIA

Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

⚠WARNING

Never use jumper cables during freezing temperatures. Tow the machine inside and allow the battery time to warm up. If the machine must be started outside, inspect the battery acid for ice formation. Explosion will occur with a frozen battery. If the machine is going to be operated in excessively cold conditions, a larger cold cranking amp battery may be needed to ensure proper and prompt starting. Never use jumper cables in a confined or unventilated area. Battery acid fumes are explosive. Battery acid can cause severe burns. Never expose an open flame or spark near the battery. Keep all burning materials away from the battery. When servicing the battery, shield eyes and face, and do not smoke. Service in a well ventilated area.

⚠DANGER

Before attempting any type of maintenance disengage clutch, turn off engine, wait for the cutter wheel to come to a complete stop, install the cutter wheel lock pin, disconnect battery, and make sure the ignition key is in your possession.

ALWAYS install the lock pin into the cutter lock tube before working on the grinder.

Simply slide the lock pin into the cutter wheel lock tube. This is to ensure that the cutter wheel cannot be started while you are working on the grinder. If for some reason the cutter wheel would start to turn, it would simply hit the lock pin.

SAFETY PROCEDURES

NOTICE

Engage and disengage cutter wheel at low rpm.

NOTICE

Do not attempt to start the engine or engage the engine PTO (power-take-off) system on this machine if the cutter wheel is jammed or frozen in place. If you do, you will damage or ruin the drive belts and/or the PTO which will not be covered under warranty and will cost you down time and money.

⚠DANGER

Your machine may or may not be equipped with a clutch. Depending on the options ordered, some may be direct drive.

Do not work on the machine if the engine is running with the clutch disengaged. A clutch can self engage if either the pilot or throw-out bearing happens to seize to the main output shaft.

There are various types of clutches (PTO's) available for this type of equipment. Make sure to study the original clutch manufacturer's manual that is provided with the machine and follow its instructions for operation, service, and adjustments. Some styles require clutch engagement to be maintained so that it takes a lot of force, others will require very little force, and some are push button, electric, manual lever, or hydraulic activation. Each different style clutch (PTO) is a very expensive item that will fail if not correctly maintained and adjusted. It will be quite costly if a few minutes are not taken daily, weekly, and monthly to keep the clutch serviced as required.

The operator must take care in the engagement and disengagement of the clutch, engine RPM should always be below 1000 RPM. When the engine has sufficiently warmed up, bump the clutch handle against engagement to start the cutter wheel turning. This will have to be repeated until the cutter wheel is turning at proper ratio with engine RPM. Then push the handle all the way in gear until it locks into position securely. After engagement raise engine RPM to full throttle. Engaging and disengaging the clutch at high engine RPM will quickly and excessively wear out clutch plates as well as bearings. Refer to clutch manufacturer's manual for proper service and operation.

⚠DANGER

Avoid moving parts. Keep hands, feet, and clothing away from power driven parts. Keep all guards and shields in place and properly secured.

⚠DANGER

Do not go near or in-line with the debris field of the stump grinder while in operation. While grinding stumps, the chips and portions of the stump fly from the cutter wheel and can cause severe injury.

⚠DANGER

Never go near cutter wheel or teeth while engine is running or cutter wheel is coasting to a stop.

⚠DANGER

Never grind materials that might contain wires, stones, nails, or other metal objects which may damage the teeth and become dangerous projectiles. Remove all rocks and stones from stump grinding area.

⚠DANGER

Do Not start to grind a stump unless you are completely sure there are not any power lines, water lines, sewer lines, phone lines, etc. in the area above or below the ground level where you are grinding.

⚠WARNING

CLEAN MACHINE OF ALL DEBRIS! DO NOT leave this machine unattended until all potential fire debris is removed, no fire or smoldering exists, and hot spots are cold. The engine creates many hot spots including: exhaust manifold, exhaust, turbo (if equipped), etc. Remove all flammable debris such as wood, chips, leaves, oils, fuels, etc. from engine exhaust, engine turbo (if equipped), beside, around, and under engine, around and under tanks, inside belt shields and guards, inside battery and tool boxes, inside cabinets (if equipped), and anywhere materials collect. ALWAYS keep several type A:B:C fire extinguishers operational and on the job at all times.

⚠WARNING

Check laws and regulations. Know and obey all federal, state, and local laws and regulations that apply to your work situation and the transportation of a machine this size.

⚠WARNING

Sparks can occur if cutter teeth strike rocks, metal, or other hard objects.

DO NOT use in high or very high fire hazard severity zones.

Operation of this equipment may create sparks that can start fires around dry vegetation. A spark arrester may be required. The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements.

⚠WARNING

Do Not continue to operate the machine if the cutter wheel stalls. Immediately lift cutter wheel out of the stump, dirt, etc. and start again with less bite. Prolonged cutter wheel stall will ruin the hydraulic components, creating extreme heat and possible fire hazard.

SAFETY PROCEDURES

IF MACHINE IS EQUIPPED WITH A SELF PROPELLED UNDERCARRIAGE

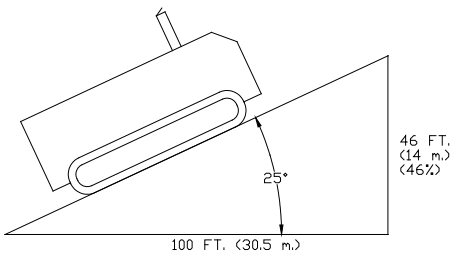
Machines equipped with undercarriage tracks are shipped with a manual from the track manufacturer. Refer to it for service, operation, and safety information.

⚠WARNING

Do not attempt to operate the machine on an ascending or descending slope of more than 25° or 46% or a side slope of more than 17° or 30%, it is Dangerous and could be Fatal. This is the maximum slope grade the machine can be operated on if the hydraulic system, self propelled undercarriage, and engine are running at maximum performance and good traction is sustained.

Maximum Slope Grade

Ascending or Descending Slope



Side Slope

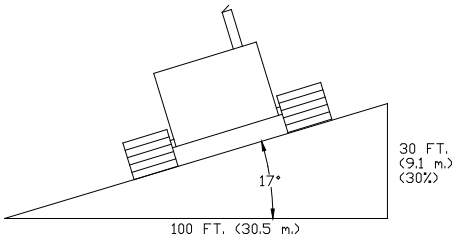


Diagram shows percentage to degree of slope.
Percentage is in vertical feet for every 100 horizontal feet.

⚠WARNING

Any increase from the specified maximum operating angles may cause loss of lubrication function and damage the engine.

⚠DANGER

The machine should never be parked on a slope at any time. The machine can coast or creep causing equipment and/or personal injury.

⚠DANGER

Make sure everyone is clear of machine before moving the machine. Stay clear of undercarriage travel system when the machine is moving.

⚠DANGER

DO NOT entangle feet or hands in undercarriage travel system.

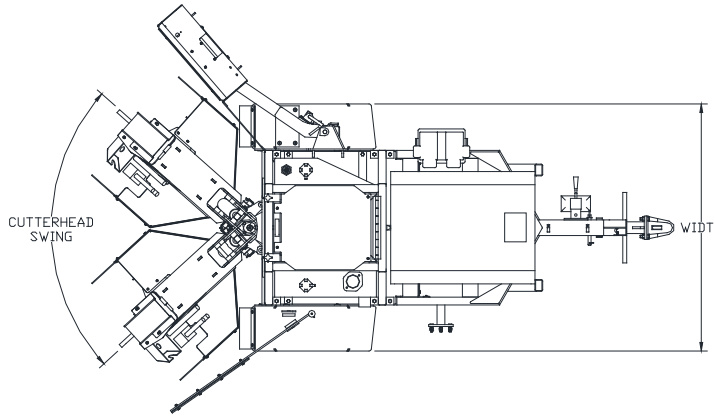
⚠DANGER

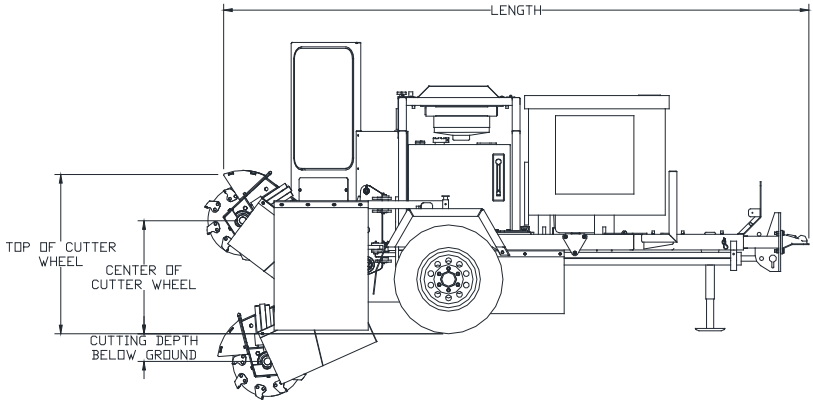
Use **EXTREME CAUTION** when traveling over non-level surface! This machine can tip over or tip backwards on non-level surface. You will cause engine damage, machine damage and possible personal injury!

⚠DANGER

NEVER sit, stand, lay, climb or ride anywhere on this machine while it is running, operating, or in transit. You will be injured.

EQUIPMENT SPECIFICATIONS





Approximate Dimensions & Weights

(Dimensions & weights will vary depending on optional equipment)

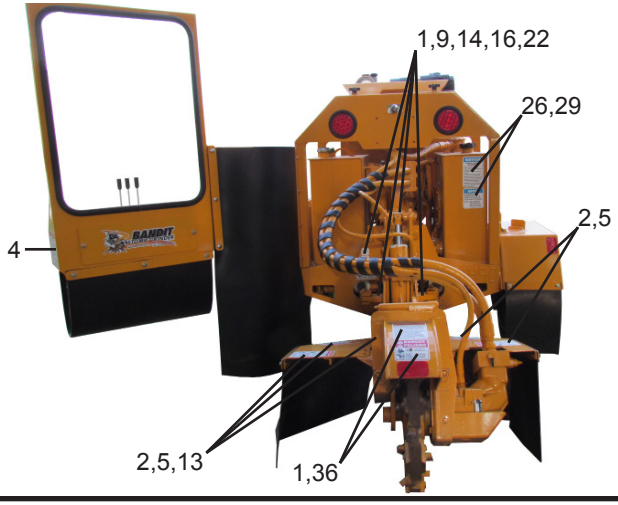
Approx.
Weight: Model 2600: 3720 lbs. (1685 kg)
Model 2700: 4660 lbs. (2110 kg)

Overall
Dimension: Model 2600: Height: 72” (1.83 m), Length: 155” (3.90 m), Width: 63” (1.60 m)
Model 2700: Height: 80” (2.03 m), Length: 169” (4.30 m), Width: 63” (1.60 m)

	Model 2600:	Model 2700:
Cutting Depth:	22” (.55 m)	25.5” (.64 m)
Cutting Height:	27.5” (.69 m)	31 (.78 m)
Cutting Swing:	68” (1.72 m)	72 (1.82 m)
Number of Teeth on Cutter Wheel:	18	24
Cutter Wheel Diameter with Teeth:	21 - 21.125” (.53 -.54 m)	24.5 - 25.5” (.62 -.64 m)
Fuel Tank Capacity:	20 Gallons (75.7 Liters)	25.5 Gallons (96.5 Liters)
Hydraulic Tank Capacity:	19.5 Gallons (73.8 Liters)	27.5 Gallons (104.1 Liters)

DECAL LOCATIONS

Decal locations may vary, these are general locations.



DECAL LOCATIONS

Modifications and/or additions of decals to this list will happen.
Consult chipper dealer or manufacturer for most current decal package.

LOCATION	NUMBER	DESCRIPTION
1.	SPD-02	Moving Parts...
2.	SPD-20	Flying Objects Stand Clear...
3.	SPD-30	Do Not Sit, Stand, Lay, Climb...
4.	SPD-35	Extreme Caution...Non-Level Surface...
5.	SPD-36	...Debris Field...
6.	SPD-38	... Do Not Entangle Feet...
7.	SPD-39	Do Not Operate...
8.	ID-42	Bandit Industries Inc...USA
9.	INST-12	Grease Daily - Single Arrow
10.	INST-44	California Proposition 65
11.	INST-53	Hydraulic Oil...Hydrex XV...
12.	INST-62	Remote On - Controls Off - Machine On
13.	INST-73	Cutter Head Lock Hole
14.	INST-74	Cutter Head Lock Pin
15.	INST-79	Swing Speed - Counter Clockwise To Slow
16.	INST-86	Grease Daily - Double Arrow
17.	INST-87	Controls - 3 Function
18.	INST-95	Electric Plug-In Schematic
19.	INST-101	Canada Engine Decal
20.	INST-110	Window Washing Instructions...
21.	INST-111	Frame Lock Hole
22.	INST-112	Frame Lock Pin
23.	INST-180	...Cutter...On/Off...
24.	INST-192	...Throttle...Up/Down...
25.	INST-197	...EPA Emission Standards...
26.	N-02	Maintain Lubrication...
27.	N-33	Engine Oil Lubrication...Break-In...
28.	N-55	...Oil Cooler Fan...
29.	SPN-06	Decal Maintenance...
30.	SPW-01	Do Not Go Near Oil Leaks...
31.	SPW-02	Diesel Fuel Only
32.	SPW-04	Frozen Battery Can Explode...
33.	SPW-08	Wear Personal Protection...
34.	SPW-09	...Go Slow Around Corners...
35.	SPW-28	...Fire Hazard...
36.	SPW-29	...Cutter Wheel Stall...
37.	SPW-31	Explosion Hazard...
38.	SPW-32	...Tether Cord...
39.	900-8900-34	Basic Safety Decal Kit (Options may require additional decals)
40.	900-8902-31	Bandit Model 2600 Logo Decal Kit
41.	900-8902-86	Bandit Model 2700 Logo Decal Kit

NOTICE

Some decals are for optional equipment. Decal locations may vary, these are general locations. If any decals become damaged, replace immediately.

DECALS

Decals located on your Bandit equipment contain useful information to assist you in operating your equipment safely. Some of the decals on your machine and their location are shown in this section.

It is very important that all decals remain in place and in good condition on your machine. Please follow the care and instructions given below:

1. You should use soap and water to keep your decals clean. Never use mineral spirits or any other abrasive cleaners.
2. Replace immediately any missing or damaged decals. The location the decal is going to be applied to must be clean and dry, and at least 40°F (5°C) before applying decal.
3. When the need arises to replace a machine component with a decal attached, be sure and replace the decal.
4. Replacement decals are available, and can be purchased from the manufacturer or your Bandit Dealer.
5. Peel back about half of the backer paper on the decal. Position it on the flat, dry, clean surface so it is smooth and secure. Peel off the remainder of the backer paper as you continue to stick the decal on the surface.
6. Rub decal from the center outward to remove air bubbles and to secure contact.
7. Combination English / Spanish decals are typically standard. Other foreign language decals are available and may be purchased. Send translated decals required to Bandit Industries, Inc.

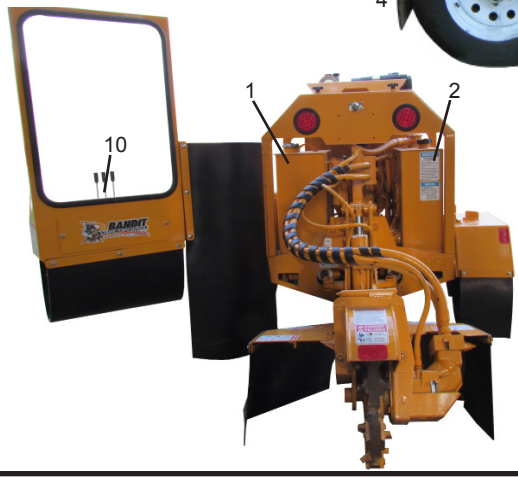
EXAMPLES:

CONTROLS & COMPONENTS

Basic Location of Controls and Components

LOCATION SHOWN

1. Fuel Tank
2. Hydraulic Tank
3. Oil Cooler Fan
4. Frame Lock Pin Hole
5. Cutter Wheel Lock Pin Hole
6. Cutter Wheel Teeth
7. Engine Controls (varies with engines)
8. Tach / Hour Meter
9. Telescoping Tongue Lock Pin
10. Machine Control Functions
11. Cutter Wheel Engage Switch
12. Throttle Switch



2600 CONTROLS - SWING OUT

Basic Location of Controls and Components

LOCATION SHOWN

1. Ignition Switch
2. Tach / Hour Meter
3. Throttle Up / Down Switch
4. Cutter Wheel On / Off Switch
5. Cutter Down / Up
6. Telescoping Tongue In / Out
7. Swing Left / Right:
8. Swing Speed Control
9. Swing Out Lock Pin
10. Telescoping Tongue Lock Pin

2700 CONTROLS - SWING OUT

Basic Location of Controls and Components

LOCATION SHOWN

1. Ignition Switch / Misc. Engine Gauges
2. Digital Tach / Hour Meter
3. Throttle Up / Down Switch
4. Cutter Wheel On / Off Switch
5. Cutter Down / Up
6. Telescoping Tongue In / Out
7. Swing Left / Right:
8. Swing Speed Control
9. Swing Out Lock Pin
10. Telescoping Tongue Lock Pin

CONTROL OPERATING PROCEDURES - SWING OUT

1. **Ignition Switch:**
   Location varies with different engine options.

2. **Tach / Hour Meter:**
   Displays the engine rpm and number of hours the engine has been on. Varies with engines and options.

3. **Throttle Up / Down Switch:**
   To increase the engine throttle, push the switch up. To decrease the engine throttle, push the switch down

4. **Cutter Wheel On / Off Switch:**
   Before engaging or disengaging the cutter wheel, make sure the engine is at an idle. To turn the cutter wheel on, push the switch up. To turn the cutter wheel off, push the switch down.

5. **Cutter Down / Up:**
   To lower the cutter wheel, push the handle away from the operator. To lift the cutter wheel, pull the handle towards the operator. The cutter wheel is stationary when the handle is in the center location.

6. **Telescoping Tongue In / Out:**
   To extend the tongue, push the handle away from the operator. To retract extend the tongue, pull the handle towards the operator. The tongue is stationary when the handle is in the center location.

7. **Swing Left / Right:**
   To swing the cutter wheel to the left, push the handle, away from the operator. To swing the cutter wheel to the right, pull the handle, towards the operator. The swing is stationary when the handle is in the center location.

8. **Swing Speed Control:**
   The swing speed controls the rate the cutter wheel passes through the stump. To decrease the swing speed, turn the control knob clockwise.

9. **Swing Out Lock Pin:**
   Lock the swing out lock pin into the operating position or the transport position.

10. **Telescoping Tongue Lock Pin:**
    Place the telescoping tongue lock pin into storage position before extending or retracting the tongue.

ENGINE OPERATING SPEEDS

NOTICE Refer to the Completion/Check Sheet, that is shipped with the machine for the correct engine rpm. If needed, contact your local dealer or Bandit Industries.

Some Current Engine Types:	Maximum RPM:	Model:
CAT - 61 HP / Perkins - 61 HP	3000	2600
CAT - 97 HP / Perkins - 97 HP	2300	2700
CAT - 114 HP / Perkins - 114 HP	2300	2700

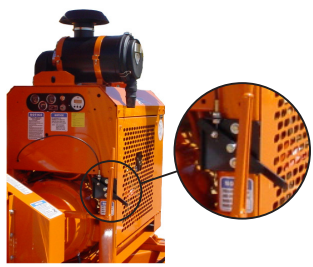
CONSULT THE ENGINE MANUFACTURER'S MANUAL FOR SPECIFIC CONTROLS, OPERATION, & MAINTENANCE FOR TYPICAL ENGINES

1. **Ignition Switch:** Turn the ignition switch key clockwise one stop (on position) to turn the electrical system on. The key should remain in the on position while the engine is running. Turn the key fully clockwise (start position) this will start the engine. To shut off the engine, return the key to the off position.
2. **On/Off Switch - Push Button Start:** Some gasoline engines may have a Toggle Switch or an On/Off Switch combined with a push button to start the engine. First turn the On/Off Switch or Toggle Switch to the on position, then depress and hold the Push Button Start until the engine starts, then release the button. To shut off the engine, return the On/Off Switch or Toggle Switch to the off position.
3. **Ignition Switch With Preheat:** The typical diesel engine may have a preheat system to assist in starting the engine during cold weather. To activate the preheat system, continue to hold the ignition key in the preheat position for 15 to 20 seconds, then attempt to start the engine. If the engine fails to start within 15 seconds, return the key to the preheat position, hold 10 seconds, and try starting again.
4. **Choke Adjustment (if equipped):** Some gasoline engines may have a choke adjustment, pull the choke lever out to choke the engine. Push the choke lever in for normal engine operations.
5. **Throttle Adjustment (if equipped):** Some engines may have a knob or a handle for the throttle adjustment. Typically you would pull the knob out, or turn the handle to increase the engine R.P.M.'s. To decrease you would push in the knob or turn the handle the opposite way.
6. **"Bandit" Lever Lock Cable Throttle System (if equipped):** The Bandit throttle system has (2) positions, HIGH and LOW. Engine R.P.M. is controlled by moving the lever from one position to the other.
7. **Push Button Or Electric Throttle System (if equipped):** Some engines may have a push button or electric throttle adjustment. Engine R.P.M. is controlled by pushing a button or switch to raise or lower the R.P.M.
8. **Alternator Warning Light:** This light will glow when the alternator is not charging, or when the ignition switch is turned on and the engine is not running.
9. **Oil Pressure Warning Light:** This light will glow when the oil pressure is to low, or when the ignition switch is turned on and the engine is not running.
10. **Engine Temperature Warning Light:** This light will glow when the engine, or engine coolant, is above normal operating temperature. If this occurs allow the engine temperature to cool down. If the engine is overheating because of a loss of coolant, or a broken fan belt, shut the engine off immediately.

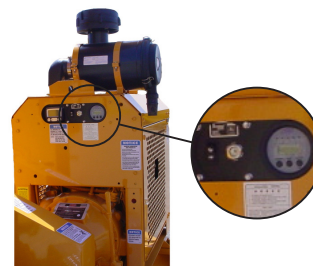
NOTICE

Most engines have an automatic low oil pressure shut down device, but some engines do not for example the Lombardini 9LD. Expensive damage may occur if the engine oil level and condition is not checked daily. Follow all maintenance procedures specified by the engine manufacturer's manual. Check the fuel level daily, running out and repriming is time consuming. Do not over fill the tank, there must be expansion space in the top of the tank. Inspect hoses, fittings, lines, tanks, etc. for any oil, fuel, engine coolant, etc. leaks daily. Repair or replace any damaged or leaking components.

TYPICAL DIESEL ENGINES



BANDIT THROTTLE SYSTEM



PUSH BUTTON OR ELECTRIC THROTTLE SYSTEM

TYPICAL GASOLINE ENGINE

MACHINE OPERATION

- Check all fluids before starting the machine.
- Make sure to go through the daily start-up and maintenance procedures before operating the machine.
- Cutter wheel must be disengaged before starting.
- Start engine at idle speed and allow for sufficient time for oil to circulate before proceeding.
- Test all controls for proper operation.
- Avoid transversing slopes.

⚠DANGER

DO NOT OPERATE AROUND WATER LINES, GAS LINES, POWER LINES, PHONE LINES, ETC. IF IN DOUBT, CHECK BEFORE GRINDING.

⚠DANGER

WEAR ALL PERSONAL PROTECTIVE EQUIPMENT PER ANSI, OSHA AND MANUALS.

⚠DANGER

KEEP CLEAR OF CUTTING WHEEL, MOVING MACHINE PARTS AND GRINDER DEBRIS FIELD.

Position machine at stump with cutter wheel a slight distance away from stump.

Reduce engine RPM to idle.

If equipped, position the swing out in the operating position and lock the spring loaded pin. Also unpin the swing out chip curtain.

Raise cutter wheel clear of stump.

Engage the cutter wheel.

Increase engine RPM to full.

Test the controls for proper operation, speed, and unobstructed movement.

The cutter wheel swing speed should be adjusted to a rate that will allow cutter wheel to pass through stump smoothly. If jerking, bouncing or significant drops in engine speed occur, swing rate is too rapid and must be decreased.

Swing speed should be determined and adjusted with the controls in the full open position.

A swing speed control is located on the side of the control box of the machine to adjust this speed. Turning the dial clockwise will slow the swing action.

Lower the spinning cutter wheel to the stump and make a few light passes at the stump to get a feel for the cutting action.

Gradually increase cutting action and work away at the stump by swinging cutter wheel left-to-right-to-left through stump in a sideways motion. Smooth, effortless cutting lengthens machine life, minimizes down time and is more profitable in the long run.

Continue cutting stump by adjusting cutting wheel progressively lower until stump is cut well below ground level.

Swing cutter wheel clear of stump and position machine closer to stump for next series of passes and continue cutting. If the machine is equipped with a tongue extension, reposition the cutter wheel with the tongue extension control.

Continue in this manner until stump has been removed.

Larger stumps may require repositioning machine to remove complete stump.

Raise cutter wheel clear of stump and return to center position.

Reduce engine speed to idle and disengage cutter wheel. **DO NOT TURN OFF MOTOR**. Engine should be allowed to cool slowly at idle for 3-5 minutes to avoid damage.

DO NOT ENGAGE OR DISENGAGE CUTTER WHEEL AT A HIGH ENGINE SPEED. Damage to machine will occur.

At low engine RPM, the cutter wheel swing speed control needs to be closed or slowed all the way down for the cutter head to swing. The direction the control knob needs to be turned will depend on the type of controls and when the machine was built.

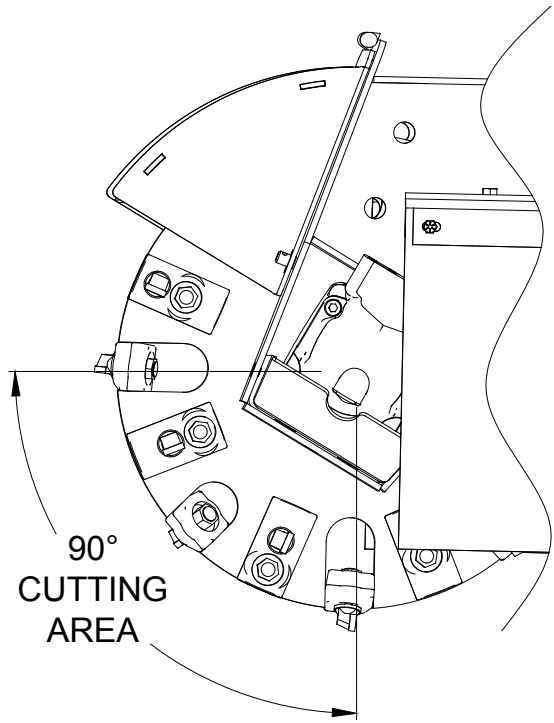
Turn off engine.

Allow cutter wheel to come to a complete stop before inspecting.

CUTTING AREA

⚠DANGER

For optimum performance, the stump should be cut with the portion of the cutter wheel shown below. **NEVER UNDERCUT THE STUMP**. Undercutting the stump may cause severe kickback, vibration and component damage. **NEVER CUT THE STUMP FROM THE TOP**. The cutter wheel will throw debris up and toward the operator, instead of down and under the machine.



TRANSPORTATION PROCEDURES

⚠WARNING

BEFORE TRANSPORTING THE MACHINE, INSPECT AND CONFIRM THE FOLLOWING STEPS:

1. Idle engine and disengage clutch.
2. Place all hydraulic controls in the “off” position.
3. Turn off engine, wait for the cutter wheel to come to a complete stop and you must have the ignition key in your possession.
4. Store all tools in the tool box and makes sure all boxes and cabinets are closed and secured.
5. Place the cutter wheel in the transport position and install cutter wheel lock pin.
6. Place the Swing Out (if equipped) in the transport position and install Swing Out lock pin.
7. Remove all excess debris. Remove any wood or debris which may have collected.
8. Raise the front of machine with the tongue jack.
9. Couple machine to transport vehicle by lowering the machine onto the hitch. Make sure the hitch matches the coupling size. Then secure hitch and lock it.
10. Place the tongue in the transport position.
11. Attach the safety chains by crossing them under hitch, make sure to allow the proper amount of slack in chains to avoid binding or dragging the ground when making turns.
12. Connect the brake breakaway cable (if equipped) and plug in the electrical connection for the lights on the machine.
13. Check running lights, turn signals, and brake lights. All must be operating properly before transporting the machine. Also check brakes (if equipped) to make sure they are operating correctly.
14. Check tires for correct pressure, cuts or damaged rims.
15. Check lug nuts and re-torque if necessary. Check new units before operation, check again after 20-25 miles (32-40 km) and regularly check at least weekly.
16. Inspect and replace any axle dust caps that are damaged or leaking.
17. Check wheel bearings and grease or oil axles per axle manufacturer’s manual.
18. Walk around the machine to confirm that everything is secure and that there isn’t anything loose that could fall off during transport. Look under machine to ensure nothing is dragging. Look down both sides of the machine for anything sticking out that may become damaged during transport.
19. Close and secure any of the following, if equipped: engine cowl doors and side panels, radiator debris screens, inspection doors, housing covers, tanks caps and covers, etc.
20. The machine is now ready for transport. Make sure to obey all local regulation and laws regarding the transporting of this type of machine.
21. Do not drive too fast for road conditions or exceed speed regulations for equipment towing. Machine must be hauled level and the towing vehicle must be sized to handle hitch weight, towing weight, and braking requirements.

MAINTENANCE SECTION

The Bandit is a very simple machine to maintain. If you will follow a regular scheduled preventative maintenance program, you should have years of trouble free operation.

⚠DANGER

Before attempting any type of maintenance disengage clutch, turn off engine, wait for the cutter wheel to come to a complete stop, install the cutter wheel lock pin, place the cutter wheel on the ground, disconnect battery, and make sure the ignition key is in your possession.

⚠DANGER

Do not let anyone operate or maintain this machine until they have thoroughly read this manual, reviewed the equipment decals, watched the equipment video, and has been properly trained. You can purchase additional Bandit manuals, decals and videos for a nominal fee.

NOTICE

Consult your engine manual for proper break-in procedures. Various engines require somewhat different procedures, but basically the engines need to operate at lower R.P.M.'s and loads for a specific time.

NOTICE

Failure to properly break-in your engine may result in poor bearing and piston ring surfaces.

NOTICE

The Bandit has only been run for a short time to test proper hydraulic pressures, possible leaks, etc. The fuel tank will be empty. Fuel is provided through a small auxiliary tank for testing. This immensely helps maintain safety in our manufacturing facility and while shipping.

NOTICE

Expensive damage to the Bandit will occur if proper preparation is not taken before welding on the machine. Be sure to disconnect both battery cables and the engine ECM (engine control module) before welding. Follow the specific Engine MFG. instructions for proper welding and grounding procedures, before attempting to weld on the machine. If welding on the machine, do not ground the welder through the machine bearings, ground near work to be performed.

DAILY START UP & MAINTENANCE

1. Check the safety decals and engine gauges:
Replace any missing or damaged decals and/or engine gauges.

2. Check all safety equipment:
Check for proper operation. Repair or replace as needed.

3. Check entire machine for loose bolts, nuts, parts, or components:
Check entire machine for any loose parts or components. Check for loose nuts or bolts. Torque, tighten, or replace any of the loose components. See page 28 for specific bolt torques.

4. Check all guards:
Check to make sure all guards are in place and installed correctly. Make sure they are secure.

5. Check the cutter wheel and pockets for wear:
Check for elongated bolt holes, secure welds, torqued bolts, excessive wear, and impact cracks. If a problem is found, contact the grinder manufacturer or an authorized Bandit dealer.

6. Check condition of cutter teeth, pockets, and hardware:
Replace or rotate your cutter teeth to keep them sharp. Check the condition of your teeth, pockets, and hardware. Replace if necessary.

7. Check cutter wheel pocket bolts:
All cutter wheel pockets bolts must be factory approved. Bolts must be replaced after a maximum of 4-5 rotations/changes to ensure safe clamping ability.

See Torque Chart for proper torque.

DAILY START UP & MAINTENANCE (cont.)

8. Grease cutter wheel arm pivot bushings:
Grease cutter wheel arm pivot bushings with 1 to 2 shots of EP-2 Lithium type grease. Wipe off excess grease. **Excessive grease will attract dirt.**

9. Check hydraulic oil level:
The hydraulic oil reservoir tank level should always remain at 7/8 full. Remember to check DAILY to avoid excessive heat build up.

10. Check for any fluid leaks:
Inspect for any oil, fuel, hydraulic oil, or engine coolant leaks. Check all hoses, fittings, lines, and tanks. DO NOT use fingers or skin to check for hydraulic leaks. Repair or replace any damaged or leaking components.

11. Check hydraulic control valves:
Inspect all hydraulic control valves and ensure they operate smoothly and shift correctly.

12. Check the fuel level:
Check the fuel level, running out and repriming is time consuming. Do not over fill, and you must leave fuel expansion space in the top of the tank.

13. Check engine oil and coolant level:
Follow the engine manufacturer manual recommendations for fluid levels. You MUST follow specific ENGINE MFG. manual recommendations for radiator coolant, additives, lubrication, correct engine speed, ETC.

14. Check radiator, debris screen:
Thoroughly clean radiator fins at least once a day or more in excessive conditions. Make sure debris is not packed between fins. Use compressed air and/or pressurized water (soap may also be needed) to clean the radiator, depending on the level and type of debris. If pressurized water is used, be careful not to turn the debris hard and pack solid between the radiator fins. Make sure to clean the radiator in the correct direction depending on if the cooling fan is a sucker or a pusher; do not propel the debris into the radiator with compressed air or pressurized water. A partially plugged radiator will not allow the engine to cool properly. Keep the compressed air or pressurized water a safe distance from the radiator fins so they are not damaged. Visually inspect the radiator fins and make sure they are not bent or closed off, repair or replace as needed. Clean cooling fan, shroud on air cooled engines, and the debris screen (if so equipped). Improper service, maintenance, or neglect will cause overheating problems and/or engine failure. Refer to the engine manufacturer's manual.

15. Check oil cooler:
Thoroughly clean cooler fins at least once a day or more in excessive conditions. Make sure debris is not packed between fins. Use compressed air and/or pressurized water (soap may also be needed) to clean the oil cooler, depending on the level and type of debris. If pressurized water is used, be careful not to turn the debris hard and pack solid between the cooler fins. Make sure to clean the cooler in the correct direction; do not propel the debris into the cooler with compressed air or pressurized water. Keep the compressed air or pressurized water a safe distance from the cooler fins so they are not damaged. Visually inspect the cooler fins and make sure they are not bent or closed off, repair or replace as needed.

16. Check air cleaner or precleaner:
Clean or replace element following engine manual recommendations. Also, check and clean the vacuator valve.

17. Check tires:
Check tires for wear, weather checking and damage. Replace if damaged.

18. Inspect axle dust caps:
Inspect axle dust caps and replace if damaged or leaking.

19. Check around machine:
Check around the entire machine for tools, cans, saws, etc. All tools not in use should be stored in a tool box.

20. Review all safety procedures on decals, from manual, and from video.

21. Make sure all safety equipment is being worn:
Make sure you are wearing all of your safety equipment: hard hat, face shield, gloves, eye protection, ear protection, etc. per ANSI and OSHA standards.

22. Remember to check EVERYTHING on the checklist.

WEEKLY MAINTENANCE

1. Grease swing pivot assembly bushings:
Grease the top and bottom swing pivot assembly bushings with 1 to 2 shots of EP-2 Lithium type grease. Wipe off excess grease. **Excessive grease will attract dirt.**

2. Grease cylinder lug pin bushings:
Grease cylinder lug pin bushings with 1 to 2 shots of EP-2 Lithium type grease. Wipe off excess grease. **Excessive grease will attract dirt.**

3. Grease swing out pivot bushings(if equipped):
Grease swing out pivot bushings with 1 to 2 shots of EP-2 Lithium type grease. Wipe off excess grease. **Excessive grease will attract dirt.**

4. Lubricate all steel friction areas::
Lubricate all steel friction areas including , but not limited to pivoting, hinged, sliding, rotating areas on the machine (i.e. cutter wheel guard, control box doors, etc.).

5. Check the cutter wheel hydraulic motor coupler:
Remove the stub shaft over the cutter wheel hydraulic motor coupler and check the torque of the coupler bolts, see Torque Chart.

6. Check and retighten tank mount bolts:
Check and retighten the fuel tank and hydraulic tank mount bolts.

7. Check alternator and fan belts on engine (as applicable):
Adjust and maintain per the engine manufacturer's manual.

8. Check wheel lug nuts:
Keep lug nuts tight, retorque, replace if needed.

MONTHLY MAINTENANCE

1. Check towing hitch:
Check for excessive damage or wear. Replace if needed. Keep pintle ring greased to reduce wear.

2. Grease telescopic tongue:
With tongue extended, grease inside tongue with 1 to 2 shots of EP-2 Lithium type grease per side and spread evenly.

3. Check hydraulic function pressures:
Check, reset and maintain all hydraulic function pressure settings to a maximum of the specified PSI (bar). This will give you the best performance from the hydraulic system.

4. Tire air pressure:
Fill each tire to rated capacity on tire.

5. Check wheel bearings:
Check and grease or oil wheel bearing per axle manufacturer's instructions.

6. Inspect dust caps and adjust brakes:
Inspect or replace axle dust caps. Inspect and adjust brakes as needed per axle MFG. manual.

7. Lubricate "Bandit" lever throttle cable:
If the machine is equipped with a "Bandit" lever throttle system, lubricate inner throttle cable and cable ends with a cable lube or SAE 10W/30 oil. Replace throttle cable if it doesn't operate smoothly.

3 MONTH MAINTENANCE

1. Hydraulic oil filter:
Must be replaced after FIRST 10 HOURS OF OPERATION, USE A 10 MICRON FILTER. After first change replace oil filter every 3 months or 400 hours. Located in the hydraulic tank.

2. High pressure and charge filters:
Must be replaced after FIRST 10 HOURS OF OPERATION. After first change replace high pressure and charge filters every 3 months or 400 hours. There are two located on the back side of the hydraulic tank.

YEARLY MAINTENANCE

1. Fuel tank:
Drain and clean the fuel tank yearly.

2. Hydraulic oil:
Change hydraulic oil and flush the hydraulic reservoir tank.

3. Hydraulic suction screen(s):
Change hydraulic suction screen(s) yearly or every 2000 hours.

DAILY START UP & MAINTENANCE CHECK LIST

Each day before starting your machine these checks must be made:

	OK	Repaired
1. Check the safety decals and engine gauges, replace if damaged.	☐	☐
2. Check, maintain, and service all safety equipment for proper operation.	☐	☐
3. Check entire machine for loose nuts, bolts, and components.	☐	☐
4. Check all guards to make sure they are tight and securely in place.	☐	☐
5. Check the condition of the cutter wheel and teeth pockets.	☐	☐
6. Check the condition of the cutter teeth, pockets, and hardware.	☐	☐
7. Properly torque cutter wheel pocket bolts.	☐	☐
8. Grease cutter wheel arm pivot bushings with 1 to 2 shots.	☐	☐
9. Check and always maintain hydraulic level at 7/8 full.	☐	☐
10. Check all hoses, fittings, lines, and tanks for damage and fluid leaks.	☐	☐
11. Check hydraulic control valves and ensure they operate and shift correctly.	☐	☐
12. Check fuel level. (Running out and repriming is time consuming).	☐	☐
13. Check engine oil, coolant levels, and correct engine speed. Follow ENGINE MANUFACTURER'S manual specs.	☐	☐
14. Check radiator and debris screen. Clean as necessary. Clean cooling fan and shroud on air cooled engines.	☐	☐
15. Check oil cooler. Clean as necessary.	☐	☐
16. Check air cleaner, precleaner, and vacuator valve. Clean as necessary.	☐	☐
17. Check condition of the tires.	☐	☐
17. Check condition of the tires.	☐	☐
19. Check around the entire machine for any foreign objects, tools, cans, saws, etc.	☐	☐
20. Review all safety procedures on decals, from manual, and from video.	☐	☐
21. Wear all applicable safety equipment: hard hat, face shield, gloves, eye protection, ear protection, etc.	☐	☐
22. Remember to check EVERYTHING on the checklist.	☐	☐

DANGER

- Use **EXTREME CAUTION** when traveling over non-level surface! Not designed to be used on non-level surface.

- This machine can tip over or tip backwards on non-level surface. You will cause engine damage, machine damage and possible personal injury!
- Use caution when transporting to avoid a roll over because of narrow wheel base!

WARNING

WEAR EYE & PERSONAL PROTECTION EQUIPMENT

Wear all personal protection equipment and follow all safety standards per ANSI and OSHA instructions.

WEEKLY CHECK LIST

	OK	Repaired
1. Grease the top and bottom pivot assembly bushings with 1 to 2 shots.	☐	☐
2. Grease cylinder lug pin bushings with 1 to 2 shots.	☐	☐
3. Grease swing out pivot bushings with 1 to 2 shots (if equipped).	☐	☐
4. Lubricate steel friction areas: pivoting, hinged, sliding, & rotating areas (i.e. cutter wheel guard, control box doors, etc.)	☐	☐
5. Check the torque on the cutter wheel hydraulic motor coupler bolts 30 ft-lbs (41 Nm).	☐	☐
6. Check and retighten fuel tank and hydraulic tank mount bolts.	☐	☐
7. Check alternator and fan belts on engine, adjust, or replace.	☐	☐
8. Check and retighten wheel lug nuts.	☐	☐

MONTHLY CHECK LIST

	OK	Repaired
1. Check towing hitch for wear, keep pintle ring greased.	☐	☐
2. Grease inside telescopic tongue with 1 to 2 shots and spread evenly.	☐	☐
3. Check hydraulic function pressures. Set to specified PSI (bar).	☐	☐
4. Check and fill tires to rated pressure.	☐	☐
5. Check and grease wheel bearings, follow axle MFG. instructions.	☐	☐
6. Check/replace axle dust caps. Adjust brakes, follow axle MFG. instructions.	☐	☐
7. Lubricate “Bandit” lever throttle cable.	☐	☐

3 MONTH CHECK LIST

	OK	Repaired
1. Replace hydraulic filter(s) after first 10 hours then quarterly or every 400 hours. Located in the hydraulic tank.	☐	☐
2. Replace high pressure and charge filters after first 10 hours, then quarterly or every 400 hours. There are two located on the back side of the hydraulic tank.	☐	☐

YEARLY CHECK LIST

	OK	Repaired
1. Drain and clean the fuel tank.	☐	☐
2. Change hydraulic oil and flush the hydraulic tank.	☐	☐
3. Replace hydraulic suction screen(s) annually or every 2000 hours.	☐	☐

WINDOW WASHING INSTRUCTIONS

DO NOT use any glass cleaner on windows. Follow these steps to clean the windows:

1. Rinse with water to remove abrasive dirt.
2. Wash with soap or mild detergent, using a soft cloth sponge.
   DO NOT SCRUB
3. Rinse once more, then dry with a soft cloth or chamois.
4. To remove grease, wet paint or decals: rub gently with a cloth wetted thoroughly in VM&P Natha or Isopropyl Alcohol. Wash and rinse.

DO NOT USE RAZOR BLADES, SCRAPPERS, SQUEEGEES, ETC.

BOLT TORQUE CHART

(THESE TORQUES ARE BASED ON DRY, CLEAN THREADS)

DESCRIPTION	BOLT SIZE	TORQUE (FT.-LBS.)	TORQUE(Nm)
Cutter Wheel Revolution Lead Tooth Nut	5/8"-18 NF	200	271
Cutter Wheel Revolution Side Tooth Nut	5/8"-18 NF	125	169
Cutter Wheel Green Tooth Pocket Bolts	5/8"-18 NF	180 - 200	169 - 203
Cutter Wheel Green Tooth Nut - 2600:		35	47
Cutter Wheel Green Tooth Nut - 2700		50	67
Cutter Wheel Coupler		30	41
Stub Shaft	1/2"-13 NC	80	108
Stub Shaft Brace	5/8"-11 NC	170	230
Engine Isolator Hold Downs	1/2"-13 NC	80	108
Lug Nuts	1/2"-20 NF	90 - 120	122 - 163

Before tightening bolts be sure you have the correct size bolt for the correct amount of torque.
Use only factory approved knives and hardware.

BASIC WHEEL TORQUE REQUIREMENTS (per mfg.)

KEEP LUG NUTS PROPERLY TIGHTENED, CHECK NEW UNIT BEFORE OPERATION, CHECK AGAIN AFTER 20-25 MILES (32-40 km) AND REGULARLY CHECK AT LEAST WEEKLY.

5 & 6 Lug Hubs (1/2" - 20 Studs) .....90 - 120 ft.-lbs. Torque (122 - 163 Nm)
8 Lug Hubs (1/2" - 20 Studs) .....90 - 120 ft.-lbs. Torque (122 - 163 Nm)
8 Lug Hubs (9/16" - 18 Studs) .....110 - 120 ft.-lbs. Torque (149 - 163 Nm)
8 Lug Hubs (5/8" - 18 Studs) .....190 - 210 ft.-lbs. Torque (258 - 285 Nm) (Cone Nut)
8 Lug Hubs (5/8" - 18 Studs) .....275 - 325 ft.-lbs. Torque (373 - 441 Nm) (Flange Nut)
8 Lug Hubs (22mm x 1.5 Studs) .....450 - 500 ft.-lbs. Torque (610 - 678 Nm) (Flange Nut)
10 Lug Hubs (3/4" - 16 Studs) .....450 - 500 ft.-lbs. Torque (610 - 678 Nm)

(Consult axle manufacturers manual shipped with each machine for specific axle-stud-wheel combination lug nut torques.)

PAINT CARE

To help keep up the appearance of your Bandit equipment and reduce the possibility of surface rust follow these steps:

1. The machine should be washed on a regular basis with a non-abrasive mild detergent and then rinsed thoroughly. Do not pressure wash sensitive areas like: decals, gauges, electronic devices, autofeed control, etc.
2. If a stone chip, paint scratch, or paint crack occurs - it should be repaired immediately. Simply sand the edges of the damaged paint area, mask off the surrounding area, and apply primer and paint to the dry, clean, and warm area. This will keep the damaged area from spreading or getting worse.
3. If you are unable to sand and mask the area, there are containers of primer and paint available. A small brush can be used to touch up the area.
4. Also, primer and most colors of paint are available in aerosol spray cans to simply spray over the effected area after it is cleaned, dry, and warmed. This method is not as reliable as the process in step #2.

It is also reported that some equipment owners polish their machine at least yearly, and keep good mud flaps on their towing trucks.

TIRE WEAR DIAGNOSTIC CHART

Wear Pattern		Cause	Action
	Center Wear	Over inflation	Adjust pressure to particular load per tire catalog
	Edge Wear	Under inflation	Adjust pressure to particular load per tire catalog
	Side Wear	Not hauling trailer level Bent axles Wide tires Wheel bearings	Must be hauled parallel to ground Replace as needed Characteristic of wide flotation tires Adjust or replace
	Cupping	Out-of-balance Wheel bearings	Check bearing adjustment and balance tires Adjust or replace
	Flat Spots	Wheel lock up & tire skidding	Avoid sudden stops when possible and adjust brakes

The wear pattern and tread life of tires involves many variables that the user has control of, but DOES NOT fall under faulty manufacture or design.

The following is a list of some causes supplied by tire suppliers and axle manufacturers:

- Misalignment - from rough roads, pot holes, excessive speeds and hitting curbs.
- Tire Width - the wider the tire for flotation, the more uneven the tire wear.
- Tire Air Pressure - to much or too little, for the load.
- Vehicle Hitch Height - if trailer is not level with ground, axle camber is misaligned.
- Maintenance - wheel bearing lubrication and adjustment. Follow axle MFG. instructions.
- Brakes - uneven or misadjusted brakes cause irregular brake activation.

RECOMMENDED BRAKE ADJUSTMENT PROCEDURE PER AXLE MANUFACTURER.

The proper clearance between the shoe and drum surfaces will be set up initially from our factory to assure proper operation during the normal break in period. No further adjustment will be necessary until the vehicle completes the recommended break in period of 200 miles (322 km).

Since all brakes of this type must be burnished or “run in” before their full effectiveness can be achieved, the MFG. maintenance manuals call for readjustment after the first 200 miles (322 km) of operation. This usually allows ample time for the burnishing to take place. Readjustments are not necessary for brakes fitted with self-adjustment features although periodic inspection is suggested.

The following shows the correct adjustment for the MFG. brakes of 12” diameter.

NOTICE

Clearances that are too small will result in excessive drag and overheating while too much clearance can render the brake nonfunctional.

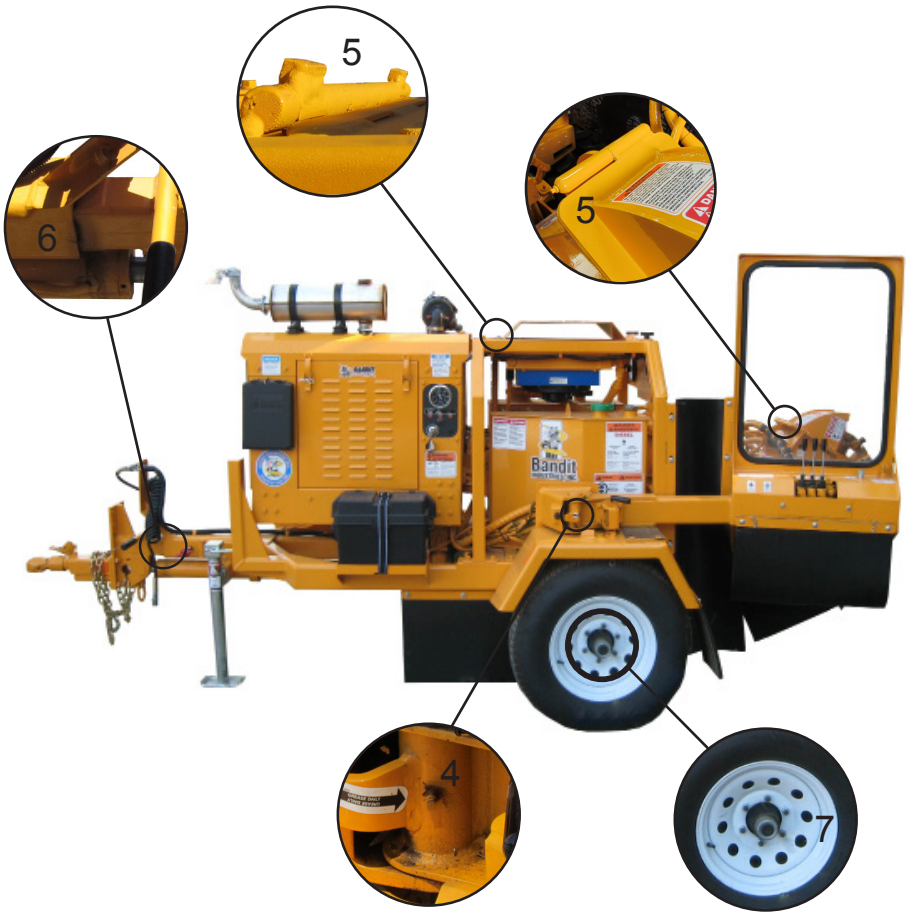
AXLE SIZE	SIZE	TYPE	DIAMETRAL CLEARANCE	CLICKS TO BACK OFF
5200 LBS.	12” x 2”	Elec. or Hyd.	.040” (1 mm)	10 TO 16
6000 LBS.	12” x 2”	Elec. or Hyd.	.040” (1 mm)	14 TO 24

For additional brake adjustment procedures consult the axle manufacturer manual.

For additional parts break downs and service videos go to www.dexteraxle.com

LUBRICATION CHART

		CHECK			
#	DESCRIPTION	DAY	WEEK	MONTH	PROCEDURE
1	Cutter Wheel Arm Pivot Bushings	X			1 to 2 shots of grease - wipe off excess
2	Swing Pivot Ass'y Bushings		X		1 to 2 shots of grease - wipe off excess
3	Cylinder Lug Pin Bushings		X		1 to 2 shots of grease - wipe off excess
4	Swing Out Pivot Bushings		X		1 to 2 shots of grease - wipe off excess
5	Steel Friction Areas: pivoting, hinged, sliding, rolling		X		Lubricate (i.e. cutter wheel guard, control box doors, etc)
6	Friction Area: Sliding Tongue			X	Lubricate as Needed
7	Wheel Bearings	→			Grease per MFG's instructions



NOTICE Use as a reference only, locations may vary depending on options or component manufacturer. Lubrication point instructions are described on the machine, in the Lubrication & Coolant Section and Maintenance Section of this manual, or component manufacturer's manual.

LUBRICATION CHART

NOTICE Use as a reference only, locations may vary depending on options or component manufacturer. Lubrication point instructions are described on the machine, in the Lubrication & Coolant Section and Maintenance Section of this manual, or component manufacturer's manual.

CUTTER WHEEL MOTOR COUPLER

⚠DANGER

Before attempting any type of maintenance disengage clutch, turn off engine, wait for the cutter wheel to come to a complete stop, install the cutter wheel lock pin, place the cutter wheel on the ground, disconnect battery, and make sure the ignition key is in your possession.

WEEKLY MAINTENANCE

1. Remove the coupler cover plate.
2. Check to make sure the coupler socket head cap screws are torqued to 30 ft-lbs (41 Nm).

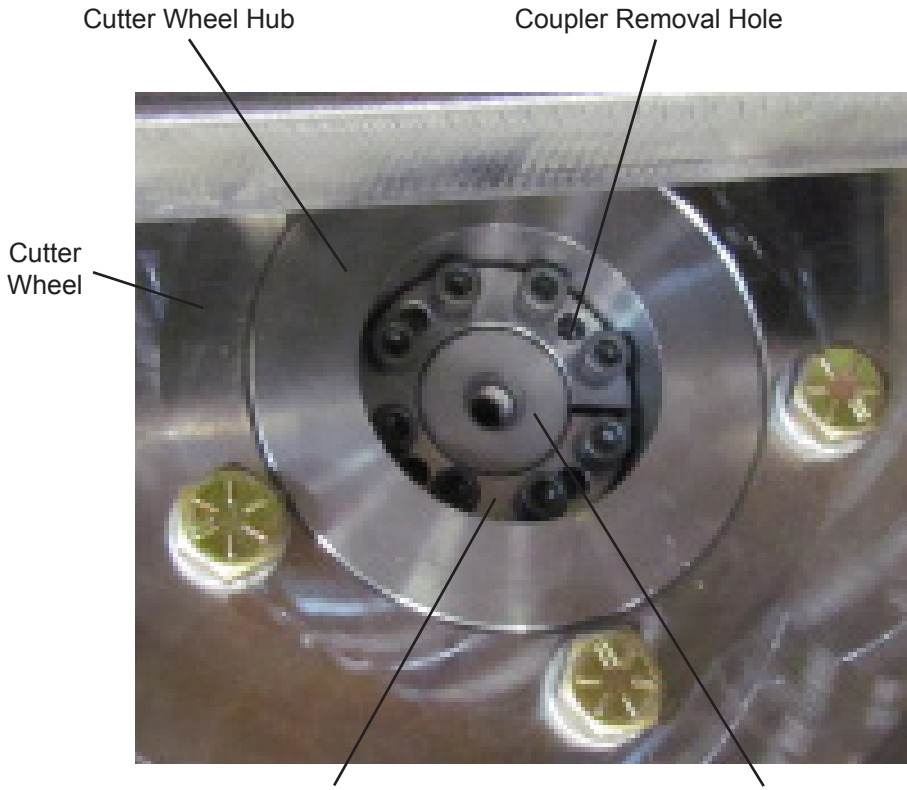
DISASSEMBLY

1. Set the cutter wheel just above the ground and then follow all shut-down procedures prior to maintenance.
2. Unpin the cutter wheel guard and flip it up.
3. Remove the screws holding the stub shaft onto the cutter wheel.
4. Remove the stub shaft brace bolts and nuts from the cutter wheel arm.
5. Remove the hydraulic motor shaft coupler screws.
6. Insert the coupler screws into the four (4) removal holes.
7. Tighten the screws to 15 ft-lbs (20 Nm) in a cross pattern.
8. Tighten the screws to 30 ft-lbs (41 Nm) in a cross pattern.
9. The coupler should come loose for removal.
10. Loosen the cutter wheel motor mount bolts.
11. Remove the cutter wheel motor from the mount bolts and the cutter wheel.
12. Remove the cutter wheel from the machine.
13. Firmly push the cutter wheel coupler from the hub. Do NOT pound it out, this will ruin the coupler.

INSTALLATION

1. Clean the hub bore and the motor shaft.
2. Do NOT use any oil, grease, or any other lubricant on the coupler, hub bore, or motor shaft.
3. Remove all the cutter wheel coupler screws, apply anti-seize on them, and install them back into the cutter wheel coupler.
4. Push the coupler into the hub of the cutter wheel by hand. Do NOT pound the coupler into the hub, this will make the coupler expand and ruin the coupler.
5. Install the cutter wheel motor bolts into the cutter wheel arm.
6. Install the cutter wheel motor onto the bolts as the cutter wheel is installed onto the cutter wheel motor shaft.
7. FOLLOW THE FOLLOWING STEPS CAREFULLY. IF THE STEPS ARE NOT FOLLOWED, THE CUTTER WHEEL COUPLER WILL NOT WORK PROPERLY, POSSIBLY CAUSING DAMAGE TO THE MACHINE.
8. Tighten the coupler socket head cap screws to 15 ft-lbs (20 Nm) in a **crossed pattern**.
9. Tighten the coupler socket head cap screws to 30 ft-lbs (41 Nm) in a **crossed pattern**.
10. Tighten the coupler socket head cap screws to 30 ft-lbs (41 Nm) in a **continuos sequence pattern**.
11. Install the stub shaft brace bolts and nuts onto the cutter wheel arm.
12. Tighten stub shaft brace bolts to 220 ft-lbs (298 Nm)
13. Install the stub shaft socket head cap screws into cutter wheel, apply Blue Loc-Tite to each screw.
14. Tighten the stub shaft socket head cap screws to 75 ft-lbs (102 Nm) in a **crossed pattern**.

CUTTER WHEEL MOTOR COUPLER



TROUBLE SHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Engine will not start. (See Engine Mfg. manual for further information.)	1. Loose ground cable. 2. Loose hot cable. 3. Dead battery. 4. Cutter wheel was engaged before the machine engine was started. 5. Batteries in remote are dead. 6. Kill switch on remote is activated.	1. Clean and tighten. 2. Clean and tighten. 3. Recharge or replace. 4. Make sure the ignition switch is off, disengage cutter wheel, and then restart the machine. 5. Replace. 6. Switch to run position.
Cutter wheel vibration.	1. Tooth missing. 2. Pocket out of balance. 3. Improper tooth arrangement. 4. Loose hydrostatic motor bolts. 5. Bad hydrostatic motor.	1. Replace missing teeth. 2. Always replace pockets in pairs across from each other. 3. Install correctly with like pairs of teeth directly across from each other. 4. Tighten and retorque. 5. Replace.
Cutter wheel throwing teeth.	1. Bad pocket. 2. Dirt in pocket.	1. Replace pocket. 2. Clean pocket and replace missing teeth.
Cutter wheel breaking teeth.	1. Operator hitting rocks.	1. Avoid rocks, stones, etc.
Cutter wheel stops turning.	1. Bad hydrostatic motor. 2. Bad hydrostatic pump. 3. Engagement cable loose or broke. 4. Low hydraulic pressure. 5. Debris wedged around cutter wheel.	1. Replace. 2. Replace. 3. Adjust or replace. 4. Reset pressure. 5. Clean out debris.
Bearing will not take grease.	1. Grease fitting clogged.	1. Replace.
Machine will not respond to remote.	1. Weak or dead batteries. 2. Remote not turned on before starting the machine engine. 3. Machine is out of range of the remote. 4. Broken or damaged antenna. 5. Remote power switch is turned off.	1. Replace. 2. Turn off engine, turn remote power on, and then restart the engine. 3. Move closed and make sure there are no obstructions between operator and machine. 4. Replace. 5. Shut down and restart the machine.

HYDRAULIC SECTION

⚠WARNING

It is very important after you have operated a new machine for approximately an hour to shut down the machine and recheck all hydraulic fittings. Retighten as needed.

DO NOT GO NEAR HYDRAULIC LEAKS! High pressure oil easily punctures skin causing serious injury, gangrene, or death. Avoid burns from fluid. Hot fluid under pressure can cause severe burns. DO NOT use fingers or skin to check for leaks. Lower load or relieve hydraulic pressure before loosening fittings. Relieve all pressure in the system before disconnecting the lines, hoses, or performing other work. Use a piece of cardboard to find leaks. Never use your bare hands. Allow system to cool down to ambient temperature before opening any coolant or hydraulic oil system.

In cold weather situations let your hydraulic system idle for approximately 15 minutes to allow the system to warm up to operating temperature.

⚠WARNING

DO NOT operate this machine unless all hydraulic control devices operate properly. They must function, shift and position smoothly and accurately at all times. Faulty controls can cause personal injury!

HYDRAULIC FLUID REQUIREMENTS

This machine is equipped with “Petro-Canada Hydrex XV” hydraulic fluid. It is recommended to replace with the same. “Petro-Canada Hydrex XV” is an all season hydraulic fluid. This is a premium performance, long life anti-wear, hydraulic fluid, designed for all season use in heavy duty hydraulic systems. “Petro-Canada Hydrex XV” allows year round use under wide extremes of temperature. It allows the hydraulic system to start at temperatures as low as -40°C/-40°F, under no load conditions and it improves lubrication of hydraulic components at high operating temperatures. It will also help protect against hydraulic failures during the wide temperature swings of spring and fall. To find the closest “Petro-Canada Hydrex XV” dealer call 1-888-284-4572.

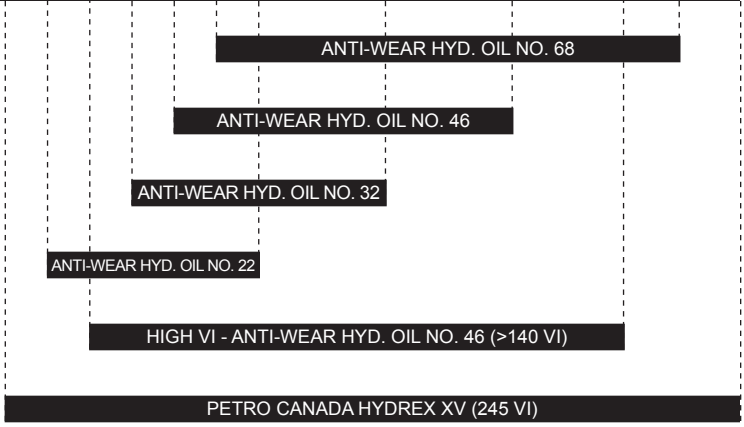
Multi Viscosity motor oils are not recommended to mix with “Petro-Canada Hydrex XV” hydraulic oil. AW oils may mix with “Petro-Canada Hydrex XV” hydraulic oil. The following are specifications and authorizations of compatible oils. Only a high quality anti-wear (AW) hydraulic oil containing foam, corrosion, rust and oxidation inhibitors should be used. This viscosity grade depends on the oil temperature in service, based on the climate and operating conditions.

	Hydrex XV	ISO 22, AW	ISO 32, AW	ISO 46, AW	ISO 68, AW	ISO 100, AW
Viscosity Index	>235	>95	>95	>95	>95	>95
Flash Point	>240°C /464°F	>200°C /395°F	>210°C /410°F	>220°C /430°F	>220°C /430°F	>240°C /464°F
Oxidations Stability (ASTM D0943)	>9,000 Hours	>3,000 Hours	>3,000 Hours	>3,000 Hours	>3,000 Hours	>3,000 Hours
Cold Start-up, No Load, Max	-40°C/-40°F	-34°C/-29°F	-26°C/-14°F	-19°C/-3°F	-9°C/16°F	-4°C/24°F

HYDRAULIC SECTION

Alternate hydraulic oils are available, but they do not equal the performance or longevity of the “Hydrex XV” oil. Consult the following information supplied by the oil distributor.

CELSIUS (C)	-40	-34	-29	-23	-18	-12	-7	-1	+4	+10	+16	+21	+27	+32	+38	+43	+49	+54
FAHRENHEIT (F)	-40	-30	-15	-10	0	+10	+20	+30	+40	+50	+60	+70	+80	+90	+100	+110	+120	+130



NOTICE

The above chart is a suggested guide for viscosity of hydraulic fluids at start up ambient temperature. The load, demand, and cleanliness of the equipment will affect actual oil temperatures which can increase dramatically above ambient air temperatures during operation. The actual viscosity needed is based on oil temperature during operation and not air temperature. Compare your fluid specifications with the specifications below to verify compliance.

When choosing a hydraulic fluid - these maximum and minimum specifications must be met:

Minimum Viscosity during operation = 12 cSt
Maximum No-Load Viscosity at start-up = 2000 cSt

Hydraulic fluids vary in their resistance to oxidation at elevated temperatures, their ability to protect against metal-to-metal contact under increasing temperature, and their ability to separate water from the fluid. Viscosity is temperature dependant. Fluids with high viscosity-index (VI) will thin out slower at higher temperature and thicken slower at colder temperatures allowing a wider operating range. Choose a fluid that has test results in these areas for best results.

Based on the varying temperatures of the area where Bandit equipment is used, and the high demand and loads placed on this equipment, Bandit has filled each hydraulic system with Petro-Canada’s Hydrex XV All Season Hydraulic Fluid for maximum protection and performance.

Contact Petro Canada at (888) 284-4572 to find a dealer near you.

NOTICE

Some equipment and components such as a fluid engagement clutch (PTO) have their own lubrication requirements. Consult their manufactures manual for that information.

HYDRAULIC SECTION

TYPICAL HYDRAULIC RELIEF PRESSURE SETTINGS
TYPICAL HYDRAULIC FLOWS AND RPM SETTINGS
(Approximate, For Reference Only, Engine At Full RPM)

Equipment Model	2600	2700	
Cutter Wheel Pump GPM (LPM)	35 (134)	48 (181)	
Auxiliary Pump GPM (LPM)	9.5 (36)	**P1** 12 (45)	**P2** 4.9 (18)
Valve Bank Relief PSI (bar)	1600 (110)	1600 (110)	
Cutter Wheel Down	1600 (110)	1600 (110)	
Swing Setting	1600 (110)	1600 (110)	
Extending Tongue	1600 (110)	1600 (110)	
Cutter Wheel PSI (bar)	4700 (324)	5700 (386)	
Charge PSI (bar)	380 (26)	380 (26)	
Cutter Wheel RPM	1675	2000-2050	
Cross Line Relief PSI (bar)	1050 (72)	1050 (72)	

NOTICE

DO NOT UNDER ANY CIRCUMSTANCES OVER-SET THESE RELIEF PRESSURES, BECAUSE IT WILL CAUSE DAMAGE TO COMPONENT PARTS AS WELL AS HYDRAULIC PARTS.

NOTICE

These typical hydraulic flows and relief pressure settings are with the engine at full RPM. All settings are subject to change!

⚠CAUTION

After the initial start-up of the machine and after any replacement of hydraulic components, that fittings and hoses should be re-checked for leaks and clearances.

HYDRAULIC SECTION
THE BANDIT HYDRAULIC SYSTEM

The Bandit is equipped with a very efficient, simple hydraulic system. Each component is capable of withstanding a specified PSI (bar) and still operate for a very long time.

If the simple rules mentioned below are followed, the hydraulic components will last for years:

•After you have operated a new machine for approximately an hour shut down the machine and recheck all hydraulic fittings for tightness and leaks.

• Avoid hydraulic pump cavitation. Low oil levels or cold start-ups will cause the hydraulic pump to cavitate. Cavitation will ruin the pump and possibly the entire hydraulic system. Cavitation only has to happen once. This will start the pump on its way to ruin. Allow hydraulic system to turn slowly for several minutes in cold weather in order for hydraulic system to warm up. Cavitation is not covered under warranty.

• Do not increase the relief valve settings beyond specified PSI (bar). This will cause damage to hydraulic components. Do not set any other hydraulic component past it's specified pressure or this will cause damage to the hydraulic components.

• Keep hydraulic oil clean. Dirty oil will cause excessive wear and loss of hydraulic power.

• Replace the hydraulic oil filter(s) after first 10 hours and with each 400 hours of operation or 3 months.

• Replace hydraulic oil & suction screen(s) at least once yearly. This is also a very good time to flush and clean the tank. Replace hydraulic oil immediately if it is contaminated or looks "milky". See pages 35 - 36 for hydraulic oil requirements.

• If the Bandit's hydraulic system is kept clean and the hydraulic pressures are not increased beyond the specified PSI (bar), the maximum use and life should be received from the Bandit grinder hydraulic system.

• If a problem is encountered, it will more than likely be located in the relief valve or something as simple as belts or clutch slipping, check these first.

• Pressure gauge should be safely stored and installed only when checking pressure. Follow above instructions or this will cause unwarranted damage to the hydraulic components.

• Never close the ball valves on the hydraulic tank suction ports (if equipped) while the machine is running, this will ruin the hydraulic pump and components.

• Some component manufacturers require different specific hydraulic lubrication, such as gear boxes, undercarriage drives, etc. Refer to their manuals and maintenance section of this manual.

⚠CAUTION

After the initial start-up of the machine and after any replacement of hydraulic components, that fittings and hoses should be re-checked for leaks and clearances.

HYDRAULIC SECTION

⚠WARNING

It is very important after you have operated a new machine for approximately an hour to shut down the machine and recheck all hydraulic fittings. Retighten as needed.

DO NOT GO NEAR HYDRAULIC LEAKS! High pressure oil easily punctures skin causing serious injury, gangrene, or death. Avoid burns from fluid. Hot fluid under pressure can cause severe burns. DO NOT use fingers or skin to check for leaks. Lower load or relieve hydraulic pressure before loosening fittings. Relieve all pressure in the system before disconnecting the lines, hoses, or performing other work. Use a piece of cardboard to find leaks. Never use your bare hands. Allow system to cool down to ambient temperature before opening any coolant or hydraulic oil system.

In cold weather situations let your hydraulic system idle for approximately 15 minutes to allow the system to warm up to operating temperature.

⚠WARNING

DO NOT operate this machine unless all hydraulic control devices operate properly. They must function, shift and position smoothly and accurately at all times. Faulty controls can cause personal injury!

NOTICE

Some equipment and components such as fluid engagement clutch's (PTO's) have their own lubrication requirements. Consult their manufactures manual for that information.

⚠DANGER

Before attempting any type of maintenance disengage clutch, turn off engine, wait for the cutter wheel to come to a complete stop, install the cutter wheel lock pin, place the cutter wheel on the ground, disconnect battery, and make sure the ignition key is in your possession.

NOTICE

DO NOT UNDER ANY CIRCUMSTANCES OVER-SET THESE RELIEF PRESSURES, BECAUSE IT WILL CAUSE DAMAGE TO COMPONENT PARTS AS WELL AS HYDRAULIC PARTS.

NOTICE

These typical hydraulic flows and relief pressure settings are with the engine at full RPM. All settings are subject to change!

⚠CAUTION

After the initial start-up of the machine and after any replacement of hydraulic components, that fittings and hoses should be re-checked for leaks and clearances.

NOTICE

When returning hydraulic components for warranty make sure to box up all warranted parts to avoid additional damage while shipping. **Do not disassemble any hydraulic components which are to be warranted.** Anything which has been disassembled or tampered with will not be warranted. Items being returned must be clean. All hydraulic components must have all hosing ports plugged. Failure to plug ports will allow debris to enter components which will void warranty.

NOTICE

In cold weather situations, let the hydraulic system idle for approximately 15 minutes to allow the system to warm up to operating temperature. Running cold oil through the hydrostatic motor can raise the case drain pressures and damage the shaft seals.

CHECKING HYDRAULIC PRESSURE

The relief valve is typically located internally in the valve bank. Do not adjust the relief valves above the specified psi (bar). The relief valve system is a simple spring tension design but small pieces of debris can stick the valve partially open which weakens the hydraulic power. The relief as well as hydraulic oil, and suction screen must be kept clean.

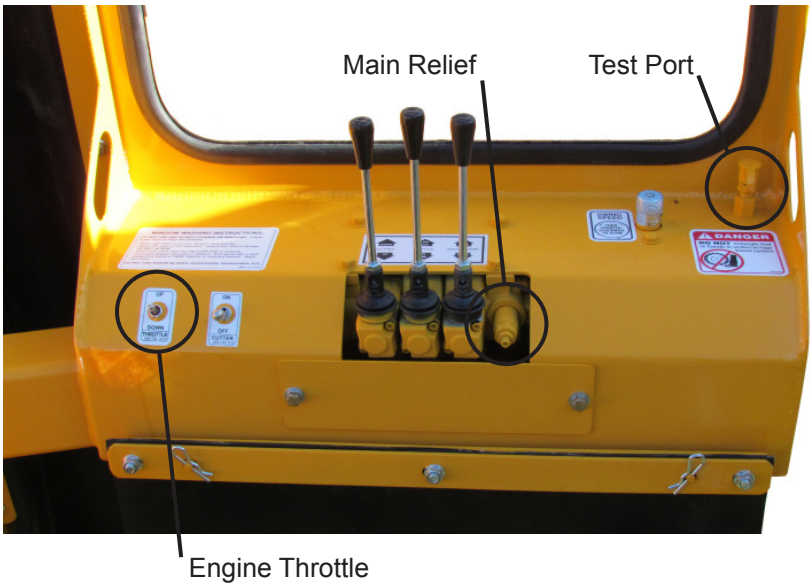
⚠WARNING

Before attempting any hydraulic pressure settings, make sure engine is shut off, engine key removed and in your possession, hydraulic oil is clean, hydraulic tank is 7/8 full, and the machine has been pre-run to warm the hydraulic oil. To correctly check relief valve pressure, gauge MUST be installed correctly.

CHECKING HYDRAULIC FUNCTION PRESSURE

1. Make sure all the controls are in the off position.
2. Install pressure gauge into the test port. See Figure 1 for test port location on machine w/ swing out controls
3. Start engine and adjust engine to full throttle.
4. Pull the cutter wheel lift control lever towards the operator so that the cylinder bottoms out and then read the pressure gauge.
5. Adjust relief if necessary. Turn the relief clockwise to increase pressure and counter-clockwise to decrease the pressure.

FIGURE 1



NOTICE

Parts may not be exactly as shown.

CHECKING HYDRAULIC PRESSURE cont.

The relief valve is typically located internally in the valve bank. Do not adjust the relief valves above the specified psi (bar). The relief valve system is a simple spring tension design but small pieces of debris can stick the valve partially open which weakens the hydraulic power. The relief as well as hydraulic oil, and suction screen must be kept clean.

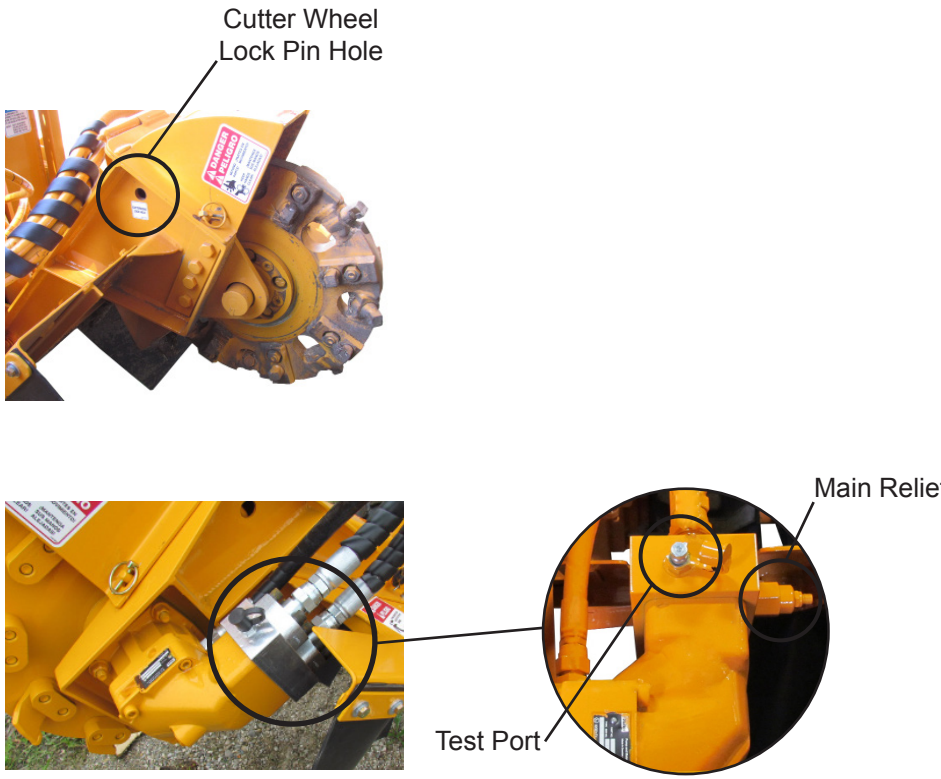
⚠WARNING

Before attempting any hydraulic pressure settings, make sure engine is shut off, engine key removed and in your possession, hydraulic oil is clean, hydraulic tank is 7/8 full, and the machine has been pre-run to warm the hydraulic oil. To correctly check relief valve pressure, gauge MUST be installed correctly.

CHECKING CUTTER WHEEL PRESSURE

1. Make sure all the controls are in the off position.
2. Install the cutter wheel lock pin
3. Install pressure gauge into the test port, see Figure 2.
4. Start engine.
5. Place the cutter wheel on the ground.
6. While engine is at full throttle, momentarily engage the cutter wheel.
7. Adjust relief if necessary. Turn the relief clockwise to increase pressure and counter-clockwise to decrease the pressure.

FIGURE 2



NOTICE

Parts may not be exactly as shown.

HYDRAULIC SYSTEM TROUBLE SHOOTING

Before attempting any type of maintenance disengage clutch, turn off engine, wait for the cutter wheel to come to a complete stop, install the cutter wheel lock pin, place the cutter wheel on the ground, disconnect battery, and make sure the ignition key is in your possession.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Hydraulic oil very hot, causing system to operate slowly.	1. Dull teeth. 2. Low oil level. 3. Worn pump. 4. Poor oil quality. 5. Damaged hose. 6. Oil suction screen or filter plugged. 7. Oil cooler plugged. 8. Binding.	1. Replace teeth. 2. Fill 7/8 full minimum. 3. Replace. 4. Replace. 5. Replace. 6. Replace. 7. Clean. 8. Repair.
Hydraulic system loss of power.	1. Low oil level. 2. Poor oil quality. 3. Bad cylinder. 4. Bad pump. 5. Bad motor. 6. Relief stuck open.	1. Fill 7/8 full minimum. 2. Replace. 3. Replace or repair. 4. Replace. 5. Repair or replace. 6. Clean or replace.
Hydrostatic motor is leaking.	1. Bad shaft seal. 2. Loose or cracked fitting.	1. Replace and check for back pressure. 2. Tighten or replace.
Swing cylinder loss of power.	1. Cutter wheel speed adjustment screw turned wide open. 2. Bad cylinder.	1. Screw in speed adjustment screw to close bypass. Readjust for “no bounce” cutting. 2. Repair or replace.
Cutter wheel swings faster one way than the other way.	1. Counter balance valve is out of adjustment. 2. Bad cylinder.	1. Replace. 2. Repair or replace.
Cutter wheel does not stay in up position, creeps down.	1. Counter balance is out of adjustment. 2. Bad cylinder.	1. Adjust counter balance valve or replace counter balance cartridge. 2. Repair or replace.

NOTICE

In cold weather situations, let the hydraulic system idle for approximately 15 minutes to allow the system to warm up to operating temperature. Running cold oil through the hydrostatic motor can raise the case drain pressures and damage the shaft seals.

NOTICE

When returning hydraulic components for warranty make sure to box up all warranted parts to avoid additional damage while shipping. **Do not disassemble any hydraulic components which are to be warranted.** Anything which has been disassembled or tampered with will not be warranted. Items being returned must be clean. All hydraulic components must have all hosing ports plugged. Failure to plug ports will allow debris to enter components which will void warranty.

NEW RIVER "REVOLUTION" CUTTER WHEEL

DO NOT OPERATE MACHINE WITHOUT A FULL SET OF TEETH. OPERATING MACHINE WITHOUT A FULL SET OF TEETH CAN CAUSE EXCESSIVE VIBRATION AND PREMATURE BEARING FAILURE.

Use only original equipment manufacturer's teeth. The use of any other aftermarket teeth may cause damage or premature failure to the drive train.

There are twenty-four (24) teeth, twenty-four (24) tooth nuts, and sixteen (16) holders to a complete set on a model 2600. Twenty-four (24) teeth: eight (8) lead teeth (Shorts) and sixteen (16) side teeth (Longs). Sixteen (16) pockets: eight (8) pockets without locator pin and eight (8) pockets with locator pin.

A locking pin is provided to hold the cutter wheel in position during tooth removal and reinstallation. Locking pin will only lock on outer teeth.

⚠DANGER

NEVER USE HAND ON CUTTER WHEEL TO HOLD IN PLACE WHILE CHANGING TEETH. BE SURE TO REMOVE LOCKING PIN BEFORE OPERATING THE MACHINE.

NOTICE

Do Not operate machine with extremely worn or broken teeth.

MODEL 2600 TOOTH ARRANGEMENT

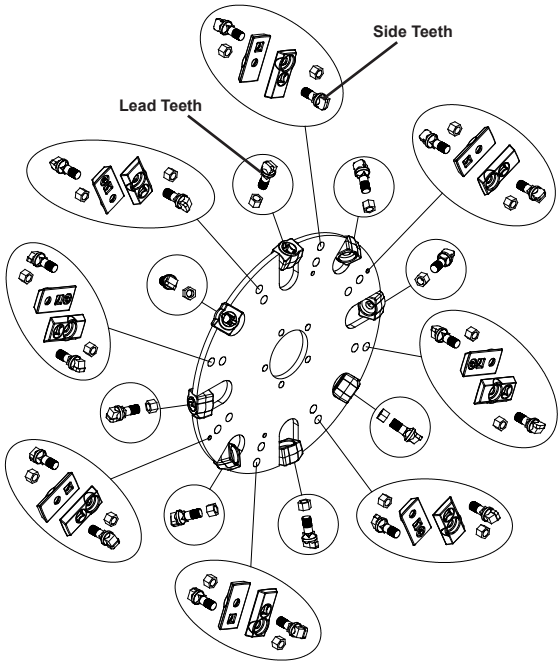
Inspect teeth, nuts and pockets for damage and replace as required.

When replacing teeth, always replace new teeth across from each other (180°) in order to prevent vibration.

Replacement teeth must be carbide tipped and of like design as provided with the machine.

To make sure the correct tooth pattern is used, make sure a pocket with a locator pin is used on a station with a locator pin hole. Use the pockets without the locator pin on a station without the locator pin hole.

When replacing complete set of teeth, be sure to duplicate original factory tooth arrangement, with the carbide tip facing the cutter wheel rotation. Typically a 15/16" socket is required to change or torque the teeth. Torque Lead Teeth to 200 ft.-lbs. (271 Nm) and Side Teeth to 125 ft.-lbs. (169 Nm).



MODEL 2600

Lead Tooth "Shorts" - Hex:	900-9912-24
Side Tooth "Longs" - Hex:	900-9912-23
Pocket without locator pin - Hex:	900-9912-26
Pocket with locator pin - Hex:	900-9912-25
Tooth Nut:	900-9909-99

CUTTER WHEEL SECTION - GREEN TEETH

DO NOT OPERATE MACHINE WITHOUT A FULL SET OF TEETH. OPERATING MACHINE WITHOUT A FULL SET OF TEETH CAN CAUSE EXCESSIVE VIBRATION AND PREMATURE BEARING FAILURE.

Use only original equipment manufacturer's teeth. The use of any other aftermarket teeth may cause damage or premature failure to the drive train.

There are eighteen (18) teeth and pockets to a complete set on a model 2600. Eighteen (18) teeth, six (6) straight pockets and twelve (12) angle pockets.

A locking pin is provided to hold the cutter wheel in position during tooth removal and reinstallation. Locking pin will only lock on outer teeth.

⚠DANGER

NEVER USE HAND ON CUTTER WHEEL TO HOLD IN PLACE WHILE CHANGING TEETH. BE SURE TO REMOVE LOCKING PIN BEFORE OPERATING THE MACHINE.

NOTICE

Do Not operate machine with extremely worn or broken teeth.

MODEL 2600 TOOTH ARRANGEMENT

Inspect pockets, teeth and bolts for damage and replace as required.

When replacing pockets, always replace new pockets across from each other (180°) in order to prevent vibration.

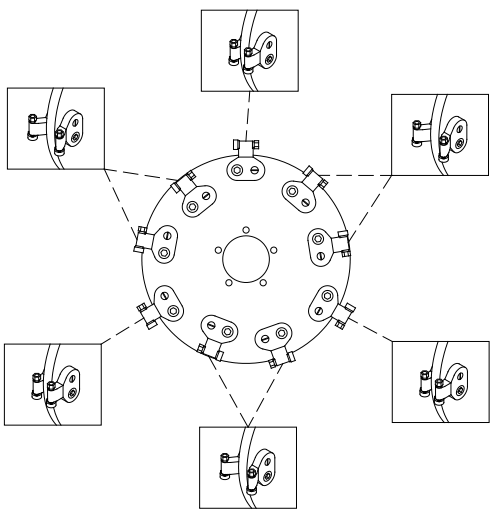
Replacement teeth must be carbide tipped and of like design as provided with the machine.

Use anti-seize on threads to help prevent bolts from "freezing up" in cutter wheel pockets.

When replacing complete set of teeth, be sure to duplicate original factory tooth arrangement, with the carbide tip facing the cutter wheel rotation. Typically a 1/2" allen key socket is required to change or torque the teeth. Torque pocket bolts to 125-150 ft.-lbs. (169-203 Nm). Torque tooth nut to 31-43 ft.-lbs. (42-58 Nm).

All Outside Pockets require a straight pocket mounted on each side of the cutter wheel. There are three outside pockets on each side of the cutter wheel.

All Inside Pockets require an angle pocket mounted away from the cutter wheel.



MODEL 2600

Green Tooth With Nut:	900-9907-91
Red Tooth With Nut:	900-9907-92
Straight Pocket:	900-9907-87
Angle Pocket:	900-9907-86
Pocket Bolt:	900-9907-14
18 Green Tooth Kit:	900-9908-24

NEW RIVER "REVOLUTION" CUTTER WHEEL

DO NOT OPERATE MACHINE WITHOUT A FULL SET OF TEETH. OPERATING MACHINE WITHOUT A FULL SET OF TEETH CAN CAUSE EXCESSIVE VIBRATION AND PREMATURE BEARING FAILURE.

Use only original equipment manufacturer's teeth. The use of any other aftermarket teeth may cause damage or premature failure to the drive train.

There are thirty-two (32) teeth, thirty-two (32) tooth nuts, and twenty-four (24) pockets to a complete set on a model 2700. Thirty-two (32) teeth: eight (8) lead teeth (Shorts) and twenty-four (24) side teeth (Longs). Twenty-four (24) pockets: twelve (12) pockets without locator pin and twelve (12) pockets with locator pin.

A locking pin is provided to hold the cutter wheel in position during tooth removal and reinstallation. Locking pin will only lock on outer teeth.

⚠DANGER

NEVER USE HAND ON CUTTER WHEEL TO HOLD IN PLACE WHILE CHANGING TEETH. BE SURE TO REMOVE LOCKING PIN BEFORE OPERATING THE MACHINE.

NOTICE

Do Not operate machine with extremely worn or broken teeth.

MODEL 2700 TOOTH ARRANGEMENT

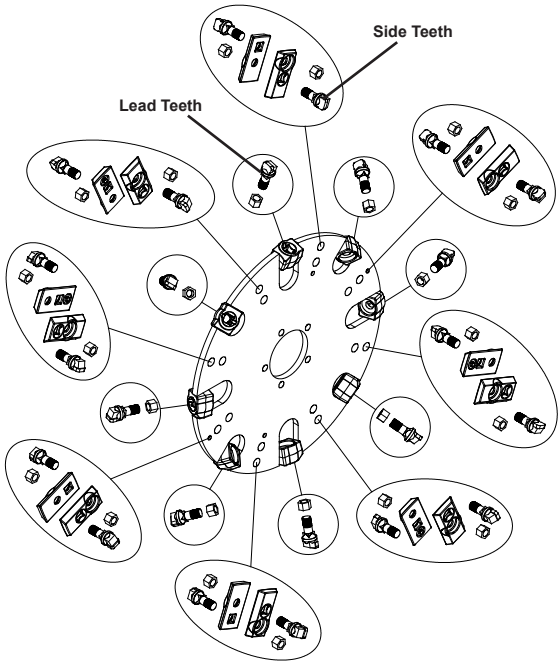
Inspect teeth, nuts and pockets for damage and replace as required.

When replacing teeth, always replace new teeth across from each other (180°) in order to prevent vibration.

Replacement teeth must be carbide tipped and of like design as provided with the machine.

To make sure the correct tooth pattern is used, make sure a pocket with a locator pin is used on a station with a locator pin hole. Use the pockets without the locator pin on a station without the locator pin hole.

When replacing complete set of teeth, be sure to duplicate original factory tooth arrangement, with the carbide tip facing the cutter wheel rotation. Typically a 15/16" socket is required to change or torque the teeth. Torque Lead Teeth to 200 ft.-lbs. (271 Nm) and Side Teeth to 125 ft.-lbs. (169 Nm).



MODEL 2700

Lead Tooth "Shorts" - Hex:	900-9912-24
Side Tooth "Longs" - Hex:	900-9912-23
Pocket without locator pin - Hex:	900-9912-26
Pocket with locator pin - Hex:	900-9912-25
Tooth Nut:	900-9909-99

CUTTER WHEEL SECTION - GREEN TEETH

DO NOT OPERATE MACHINE WITHOUT A FULL SET OF TEETH. OPERATING MACHINE WITHOUT A FULL SET OF TEETH CAN CAUSE EXCESSIVE VIBRATION AND PREMATURE BEARING FAILURE.

Use only original equipment manufacturer's teeth. The use of any other aftermarket teeth may cause damage or premature failure to the drive train.

There are twenty-four (24) teeth and pockets to a complete set on a model 2700. Twenty-four (24) teeth, two (2) straight pockets, two (2) reverse pockets, and twenty (20) angle pockets

A locking pin is provided to hold the cutter wheel in position during tooth removal and reinstallation. Locking pin will only lock on outer teeth.

⚠DANGER

NEVER USE HAND ON CUTTER WHEEL TO HOLD IN PLACE WHILE CHANGING TEETH. BE SURE TO REMOVE LOCKING PIN BEFORE OPERATING THE MACHINE.

NOTICE

Do Not operate machine with extremely worn or broken teeth.

MODEL 2700 TOOTH ARRANGEMENT

Inspect pockets, teeth and bolts for damage and replace as required.

When replacing pockets, always replace new pockets across from each other (180°) in order to prevent vibration.

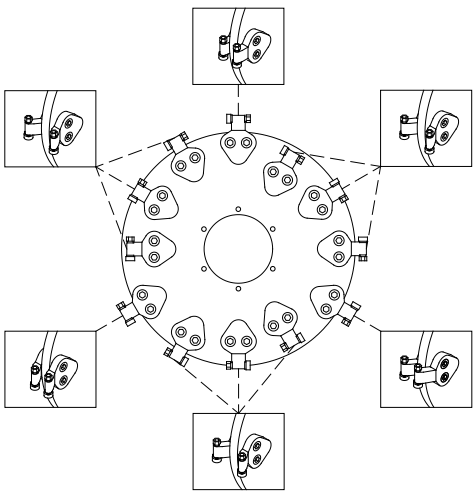
Replacement teeth must be carbide tipped and of like design as provided with the machine.

Use anti-seize on threads to help prevent bolts from "freezing up" in cutter wheel pockets.

When replacing complete set of teeth, be sure to duplicate original factory tooth arrangement, with the carbide tip facing the cutter wheel rotation. Typically a 1/2" allen key socket is required to change or torque the teeth. Torque pocket bolts to 125-150 ft.-lbs. (169-203 Nm). Torque tooth nut to 45-62 ft.-lbs. (61-84 Nm).

All Outside Pockets Outside Pockets require a mix of straight, reverse, and angle pockets. There are three outside pockets on each side of the cutter wheel. One will have straight pockets on each side of the cutter wheel. One will have a threaded reverse pocket and a c'bored angle pocket. The other will have a c'bored reverse pocket and a threaded angle pocket.

All Inside Pockets require an angle pocket mounted away from the cutter wheel.

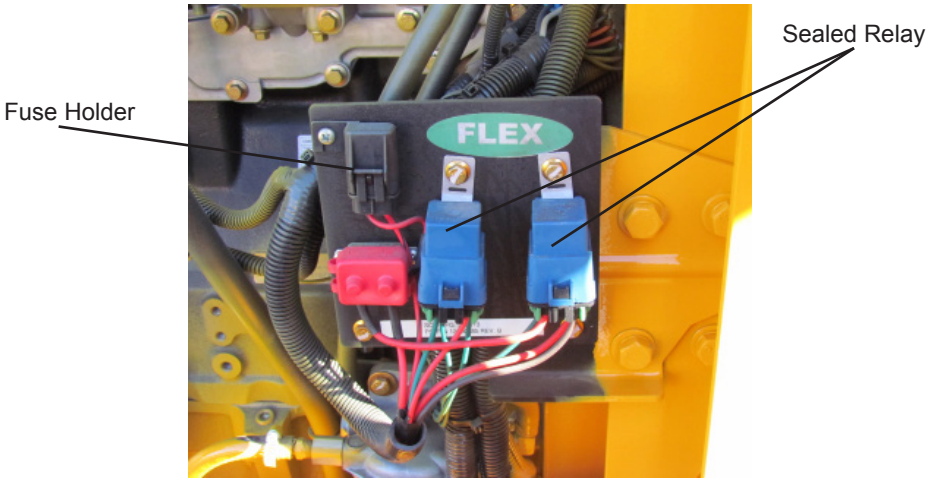


MODELS 2700

Red Tooth With Nut:	900-9907-01
Angle Pocket - Threaded:	900-9907-10
Angle Pocket - C'bored:	900-9907-09
Straight Pocket - Threaded:	900-9907-11
Straight Pocket - C'bored:	900-9907-47
Reverse Pocket - Threaded:	900-9907-49
Reverse Pocket - C'bored:	900-9907-48
Pocket Bolt:	900-9907-13
24 Tooth Kit:	900-9907-20

MACHINE ENGINE FUSED RELAY HARNESS

LOCATION MAY VARY DEPENDING
ON OPTIONS OR ENGINE MANUFACTURE.



REFER TO ENGINE MANUFACTURER'S MANUAL FOR SPECIFIC SCHEMATIC INFORMATION

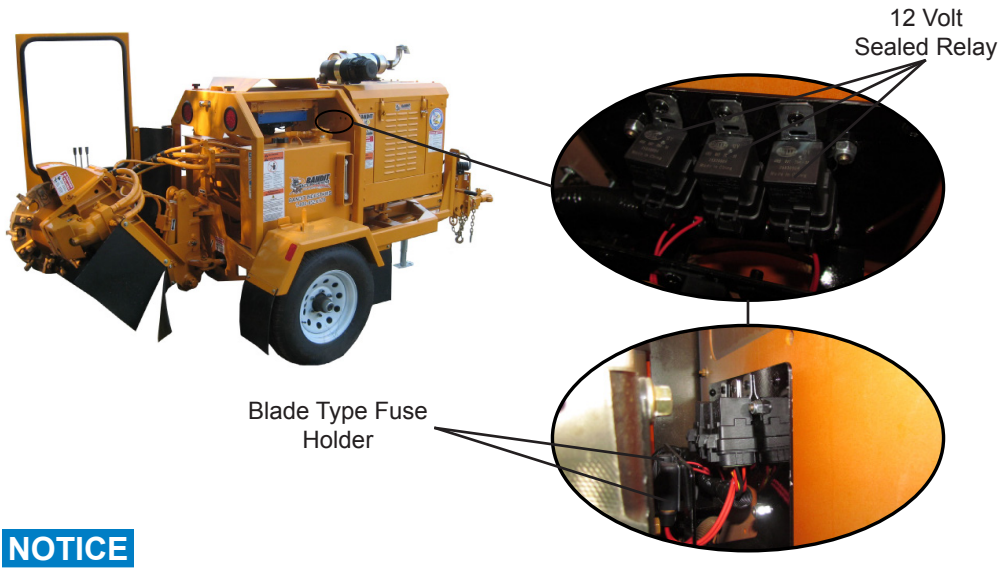
NOTICE

Parts may not be exactly as shown.

MODEL 2600/2700 FUSED RELAY HARNESS

LOCATION MAY VARY DEPENDING ON OPTIONS OR ENGINE MANUFACTURE

2600 MACHINE HARNESS - SWING OUT CONTROLS (205-8000-07)
2700 MACHINE HARNESS - SWING OUT CONTROLS (205-8000-09)
2600/2700 12 VOLT FUSED RELAY HARNESS (992-8000-13)
2600/2700 FUSED RELAY HARNESS w/ BRACKET & HARDWARE (992-8000-16)

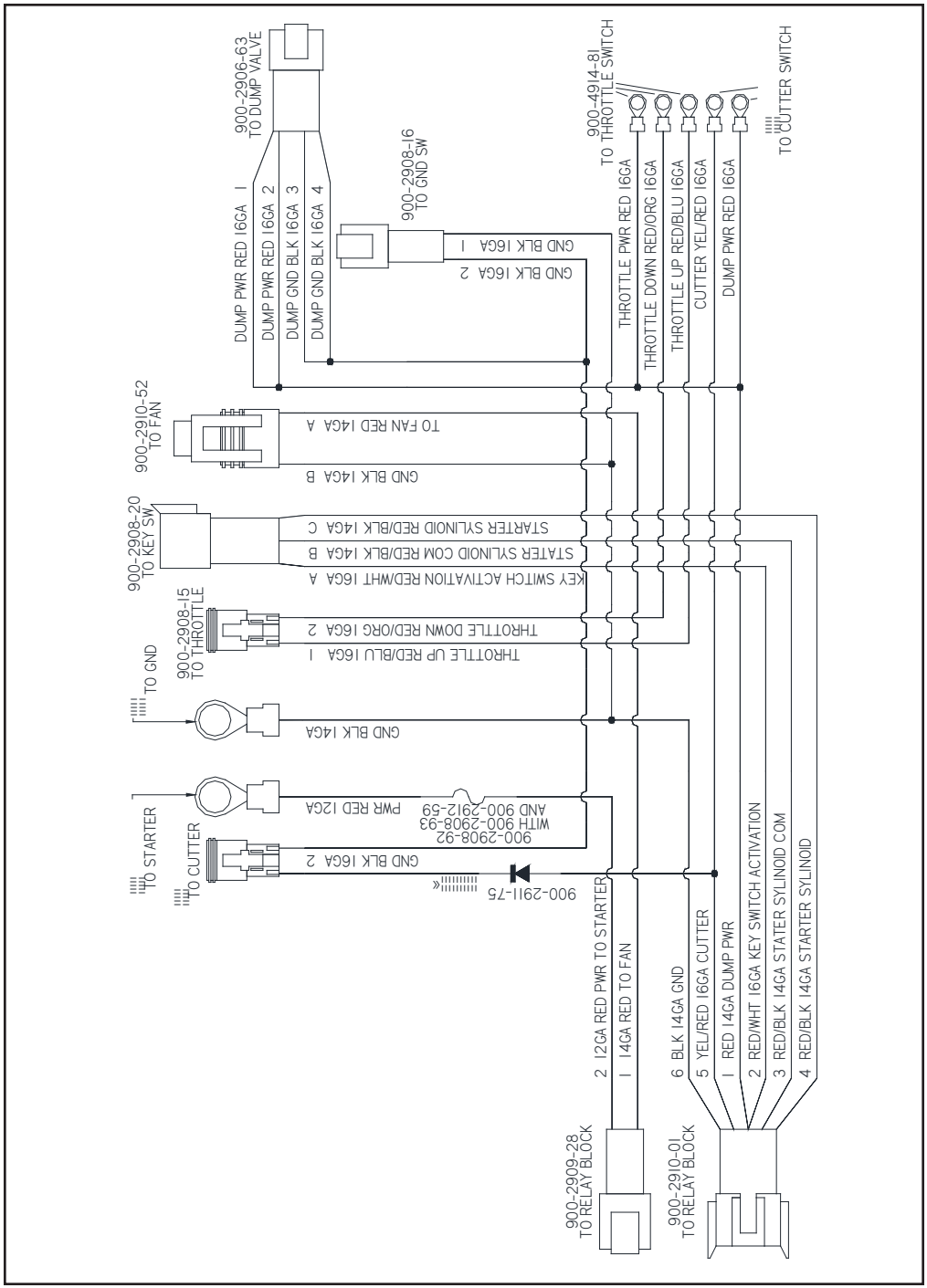


NOTICE

Parts may not be exactly as shown.

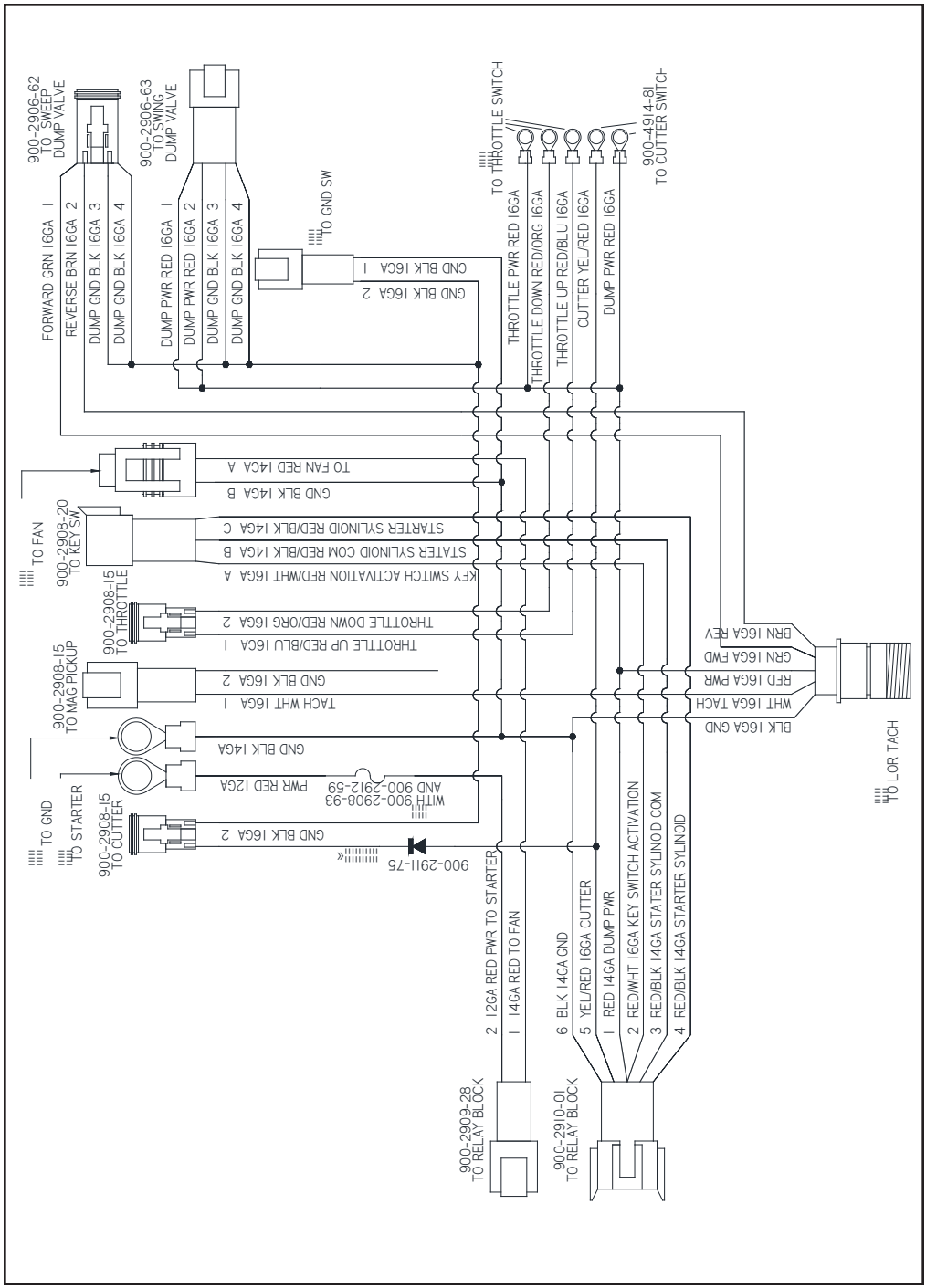
2600 MACHINE HARNESS
SWING OUT CONTROLS (205-8000-07)

SPECIFIC SCHEMATIC FUNCTION MAY VARY DEPENDING
ON OPTIONS OR COMPONENT MANUFACTURE.



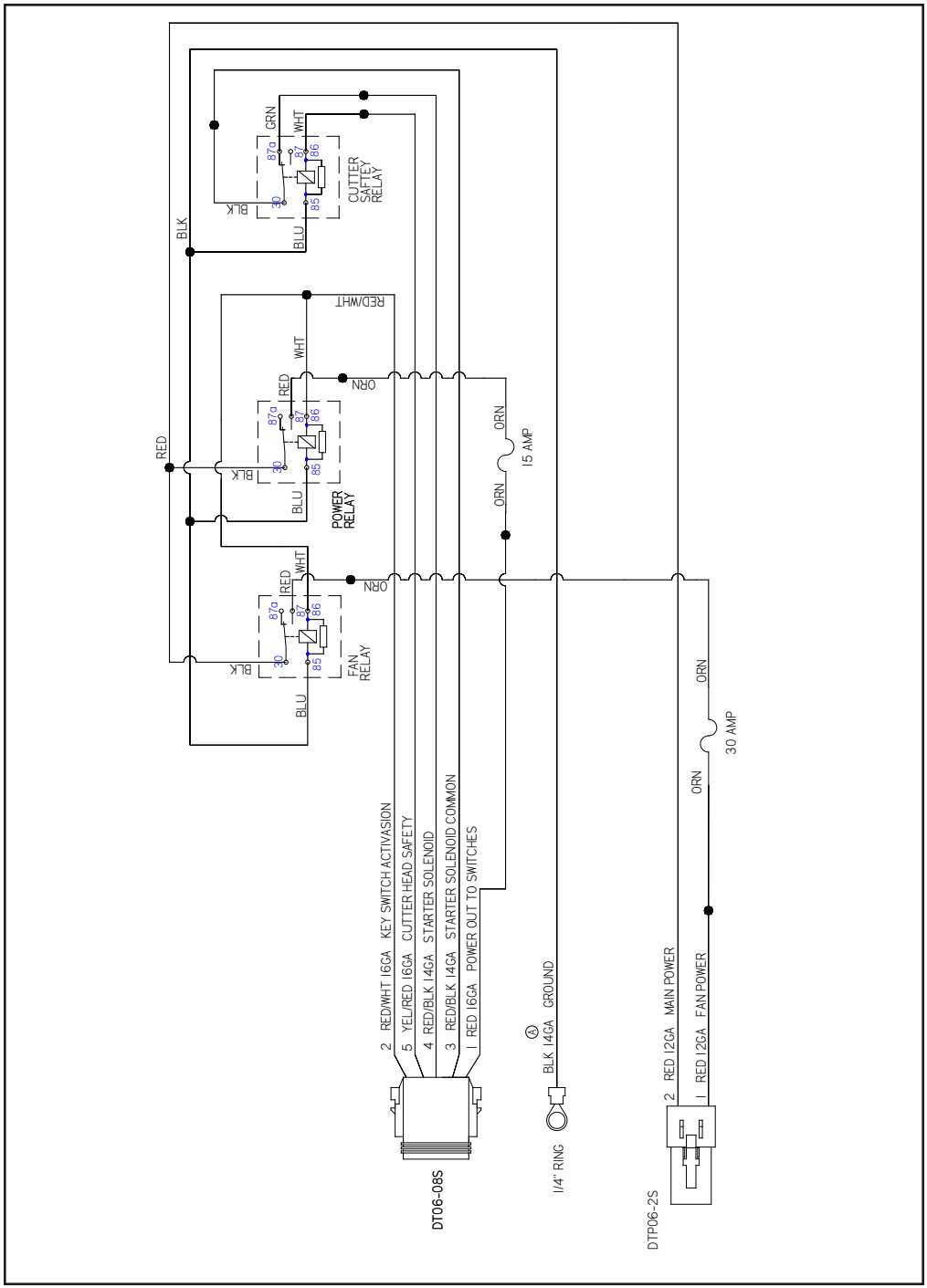
2700 MACHINE HARNESS
SWING OUT CONTROLS (205-8000-09)

SPECIFIC SCHEMATIC FUNCTION MAY VARY DEPENDING
ON OPTIONS OR COMPONENT MANUFACTURE.



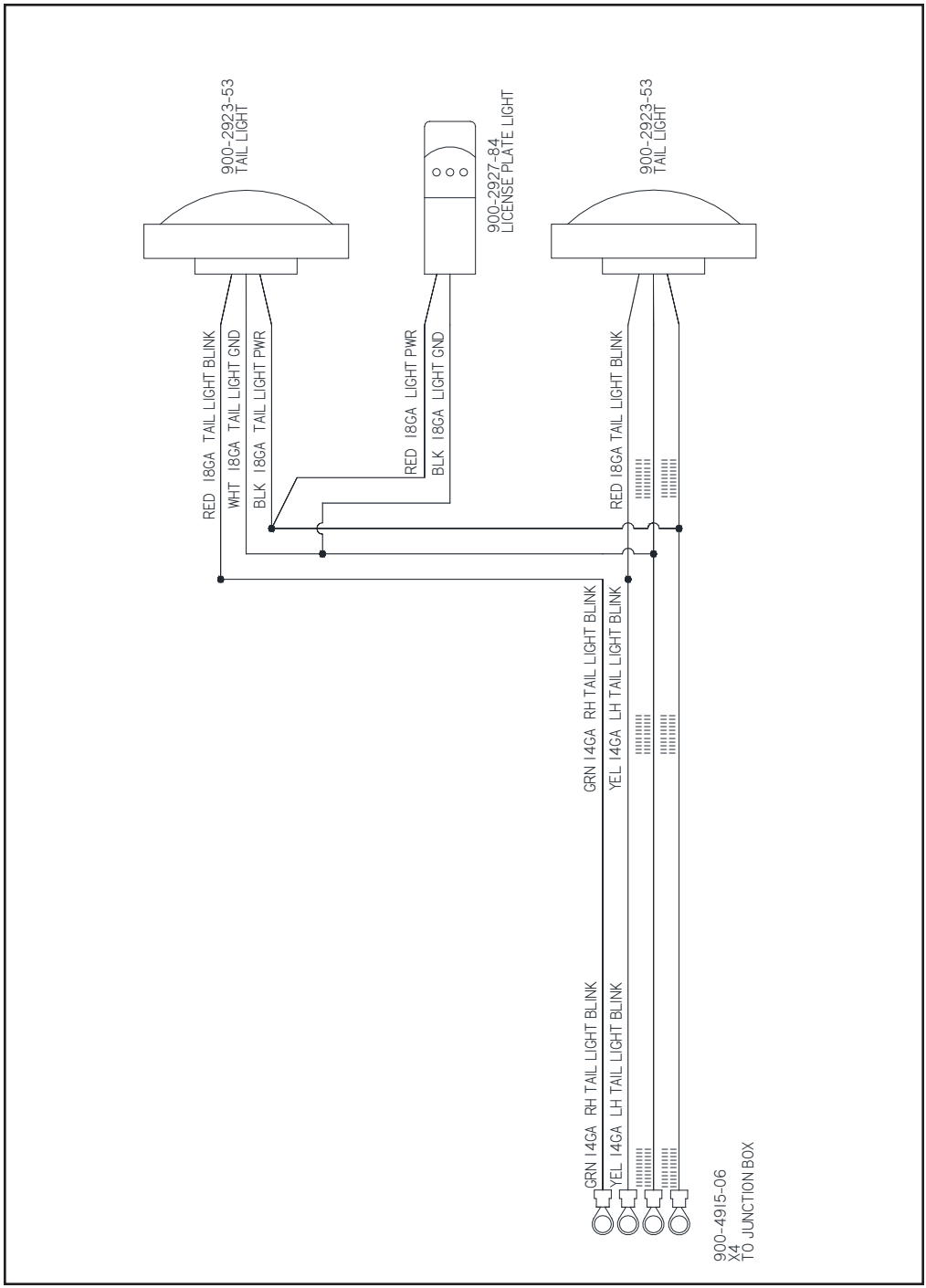
2600/2700 SWING OUT CONTROLS
12 VOLT FUSED RELAY HARNESS (992-8000-13)

SPECIFIC SCHEMATIC FUNCTION MAY VARY DEPENDING
ON OPTIONS OR COMPONENT MANUFACTURE.



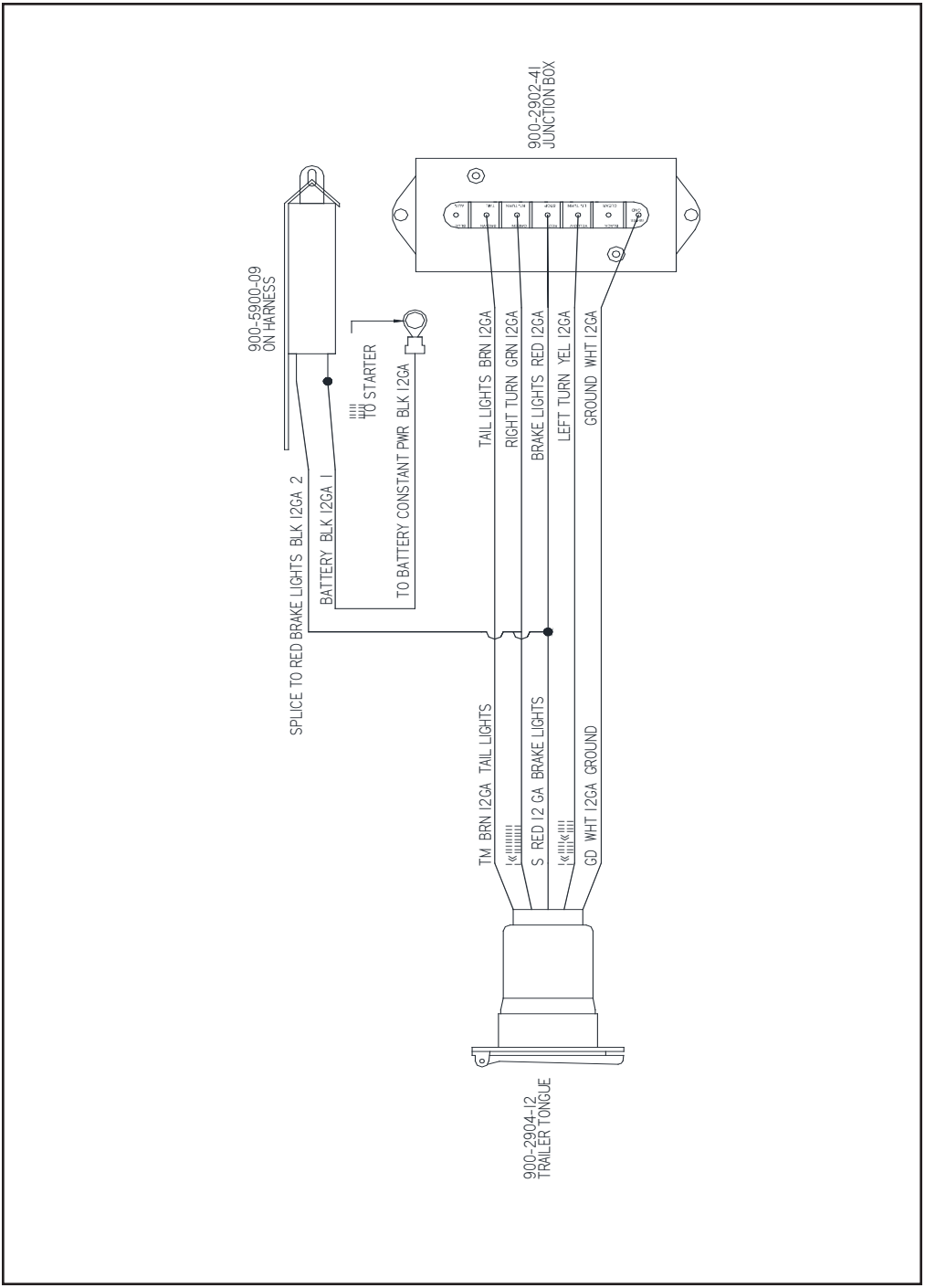
2600/2700 SWING OUT CONTROLS
TAIL LIGHT HARNESS (205-8000-10)

SPECIFIC SCHEMATIC FUNCTION MAY VARY DEPENDING
ON OPTIONS OR COMPONENT MANUFACTURE.



2600/2700 SWING OUT CONTROLS
6 PIN TRAILER WIRING HARNESS (974-8000-02)

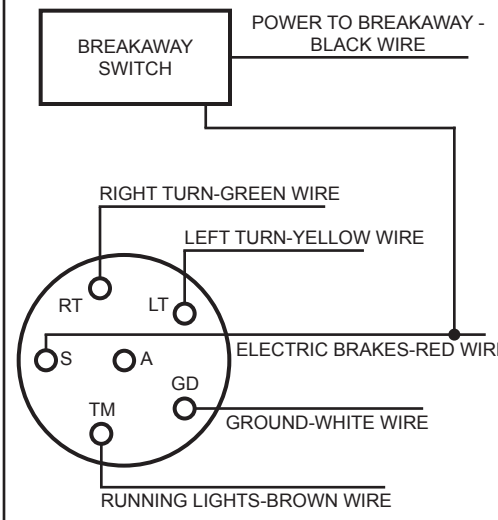
SPECIFIC SCHEMATIC FUNCTION MAY VARY DEPENDING
ON OPTIONS OR COMPONENT MANUFACTURE.



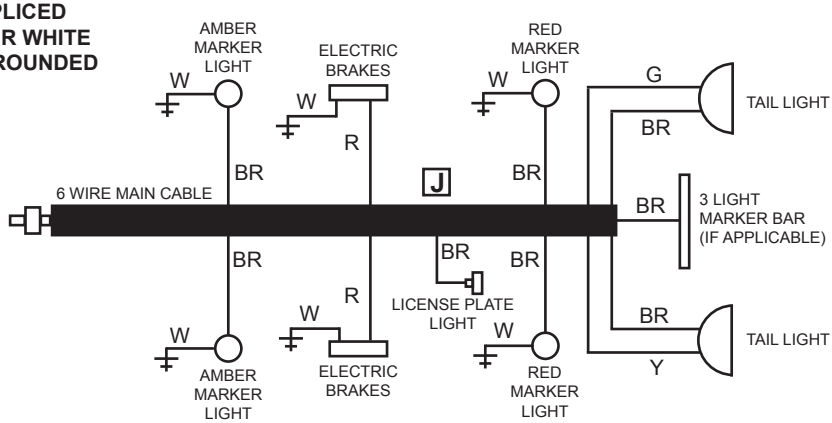
TYPICAL ELECTRICAL WIRING DIAGRAMS

WIRING FOR STANDARD 6 PRONG PLUG AND 6 WIRE MAIN CABLE

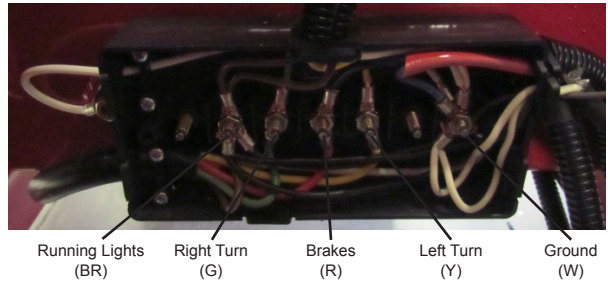
6 Wire Main Cable Color Code
Red R (Brakes & Breakaway Switch)
White W (Ground)
Green G (Right Turn)
Yellow Y (Left Turn)
Brown BR (Running Lights)
Black BL (Power to Breakaway Switch)



J JUNCTION BOX
WIRES SPLICED TOGETHER WHITE WIRES GROUNDED



JUNCTION BOX



LUBRICATION & COOLANT

1. Engine: Follow original equipment manufacturer's requirements for both changing oils and filters, refer to engine manual specifications.

2. Engine Coolant: Refer to engine manufacturer's manual specifications.

3. Wheel Bearings: Follow axle manufacturer's instructions for greasing or oiling wheel bearings.

4. Hydraulic Reservoir Tank: Completely change hydraulic oil, suction screen(s), and flush the tank annually. Change hydraulic oil filter AFTER FIRST 10 HOURS OF OPERATION. Then change hydraulic oil filter every 3 months or 400 hours thereafter. Maintain hydraulic oil level 7/8 full. See hydraulic oil requirements below. Check hydraulic oil level in tank daily.

5. High Pressure & Charge Filters: Change high pressure and charge filters AFTER FIRST 10 HOURS OF OPERATION. Then change high pressure and charge filters every 3 months or 400 hours thereafter. There are three located under the oil cooler housing cover and the inspection cover between the hydraulic tank and the control box.

6. Hydraulic Fluid Requirements: See pages 35 - 36 for hydraulic fluid requirements.

7. Cutter Wheel Arm Pivot Bushings: Grease cutter wheel arm up and down pivot bushings daily with one (1) to two (2) shots of EP-2 Lithium type grease. Wipe off excess grease. **Excessive grease will attract dirt.**

8. Swing Pivot Assembly Bushings: Grease top and bottom swing pivot assembly bushings weekly with one (1) to two (2) shots of EP-2 Lithium type grease. Wipe off excess grease. **Excessive grease will attract dirt.**

9. Cylinder Lug Pin Bushings: Grease cylinder lug pin bushings weekly with one (1) to two (2) shots of EP-2 Lithium type grease. Wipe off excess grease. **Excessive grease will attract dirt.**

10. Swing Out Pivot Bushings (if equipped): Grease swing out pivot bushings weekly with one (1) to two (2) shots of EP-2 Lithium type grease. Wipe off excess grease. **Excessive grease will attract dirt.**

11. Steel Friction Areas: Lubricate all steel friction areas including, but not limited to pivoting, hinged, sliding, and rotating areas weekly. (i.e. cutter wheel guard, control box doors, swing out pivot, etc.).

12. Telescopic Tongue: With tongue extended, grease inside tongue with 1 to 2 shots of an EP-2 Lithium type grease per side and spread evenly every month.

REPLACEMENT PARTS SECTION

Depending on what replacement parts you are ordering
the following information will be needed:

GRINDER COMPONENTS
Serial Number
Model Number of Grinder

ENGINE COMPONENTS
Brand
Engine Serial Number
Engine Spec. Number

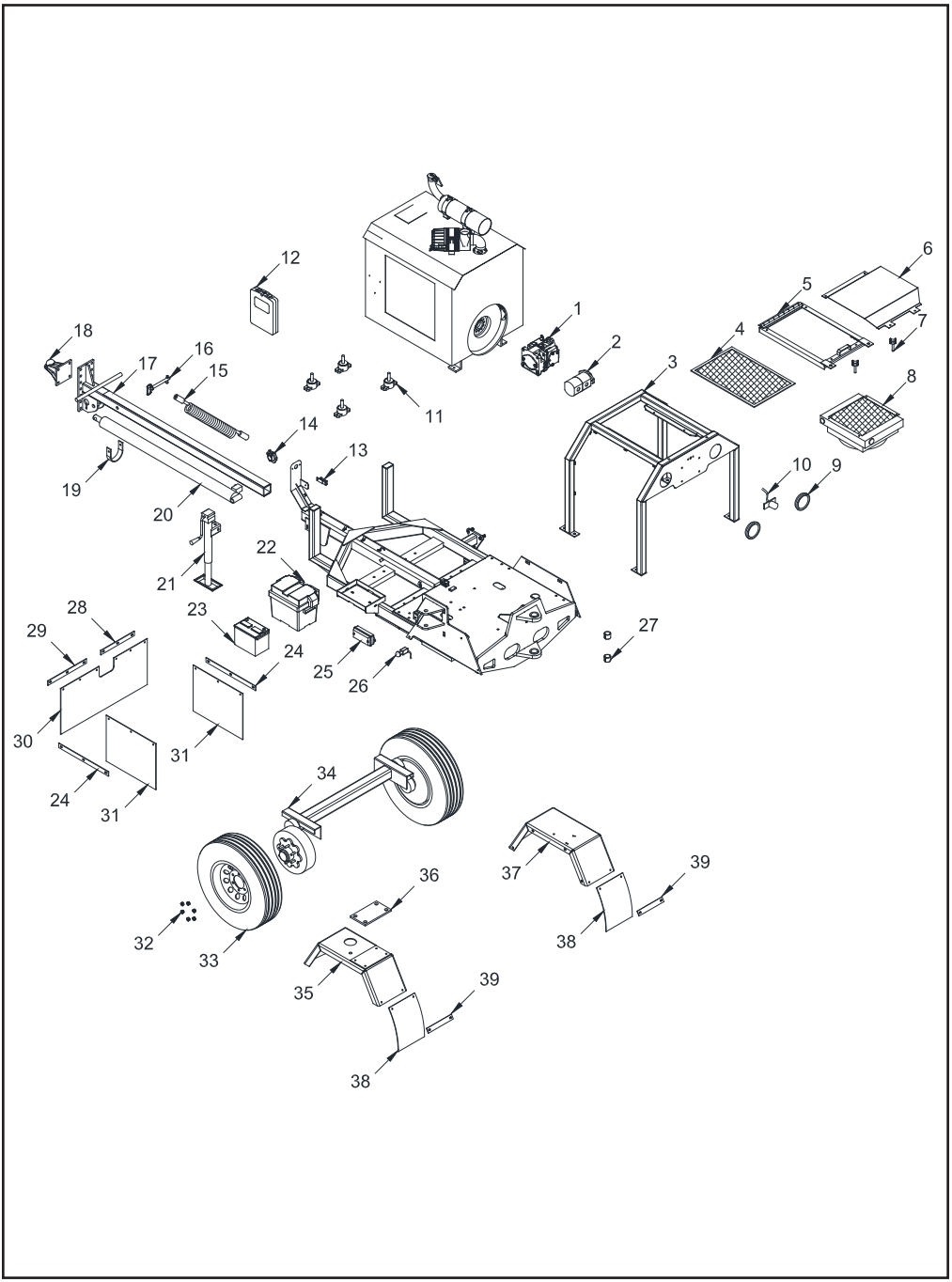
NOTICE
When ordering any replacement parts you should have the serial number (S/N) and model of the machine to ensure that you receive the correct replacement part. See page 6 for typical serial number & work order number locations.

NOTICE
All nuts, bolts, washers, and many other components can be ordered by physical description.

NOTICE
Some of the components shown in this section are for optional equipment and may not apply to every machine.

NOTICE
Bandit Industries Inc. reserves the right to make changes in models, size, design, installations and applications on any part without notification.

MODEL 2600 FRAME COMPONENTS



NOTICE

Parts may not be exactly as shown.

NOTICE

Nuts, bolts, washers, and all other components can be ordered by physical description.

MODEL 2600 FRAME COMPONENTS

LOCATION	PART NUMBER	DESCRIPTION
1.	900-3957-17	Cutter Wheel Hydraulic Pump
2.	900-3956-86	Auxiliary Pump
3.	205-1000-06	Complete Roll Bar Assembly (Includes 3-10)
4.	900-6918-53	Radiator Screen
5.	205-2000-08	Cooler Cover Access Door Assembly (Includes 6-7)
6.	205-3001-21	Oil Cooler Upper Cover
7.	900-4917-94	Plastic Knob Assembly
8 a.	900-3952-11	Oil Cooler Assembly
b.	900-3962-73	Oil Cooler Temp Sensor
9.	900-2923-53	Tail Light Assembly
10.	900-2927-84	License Plate Light
11.	900-6916-77	Engine Isolator
12.	900-9910-28	Manual Holder
13.	900-5900-09	Electrical Breakaway Switch
14.	900-2904-13	6-Prong Trailer Plug Female Plug Only
15.	900-2904-12	6-Prong Trailer Plug Male Plug Only
16.	900-4907-44	Telescoping Tongue Lock Pin
17 a.	205-2000-13	Telescoping Tongue Assembly
b.	900-4912-70	Safety Chain with Hooks and Spring Latches (Not Shown)
c.	900-4913-12	Hook For Safety Chain
d.	900-4908-15	Rubber Grip (Not Shown)
18 a.	974-1000-03	Hitch Assembly 2”
b.	900-5905-52	2” Ball Coupler
c.	900-5905-53	Hitch Assembly 2-5/16” (Optional)
19.	996-300021	Bottom Cylinder Guard
20.	900-3937-14	Extending Tongue Cylinder
21.	900-5908-44	Tongue Jack
22 a.	900-7901-71	Battery Box
b.	205-2000-25	Battery Tray Assembly
23.	900-6900-01	Battery - (I-24)
24.	205-3001-31	Bottom Side Chip Curtain Strap
25.	900-2902-41	Junction Box for Wiring
26.	900-2916-32	Limit Switch for Swing Out Arm
27.	900-1908-37	Split Bushing - 1-3/4” OD x 1-1/2” ID x 1-1/2”
28.	205-3001-29	Bottom Front Chip Curtain Strap - Curb Side
29.	205-3001-30	Bottom Front Chip Curtain Strap - Road Side
30.	205-3001-27	Bottom Front Chip Curtain
31.	205-3001-28	Bottom Side Chip Curtain
32.	900-4909-42	Wheel Lug Nut
33 a.	900-5907-21	ST225/75R-15” Tire and White Spoke, 6 Bolt Rim
b.	900-5905-98	ST225/75R-15” Tire Only
c.	900-5903-12	15” x 6” White Spoke, 6 Bolt Rim Only
34.	900-5910-32	5,200 Lb Torflex EZ Lube Axle Assembly - Electric Brake
35.	205-3000-16	Swing Out Fender (Roadside)
36.	205-3000-22	Swing Out Arm Wear Plate
37.	205-3000-15	Curb Side Fender
38.	205-3001-34	Mud Flap
39.	203-3001-49	Mud Flap Strap

NOTICE

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NOTICE

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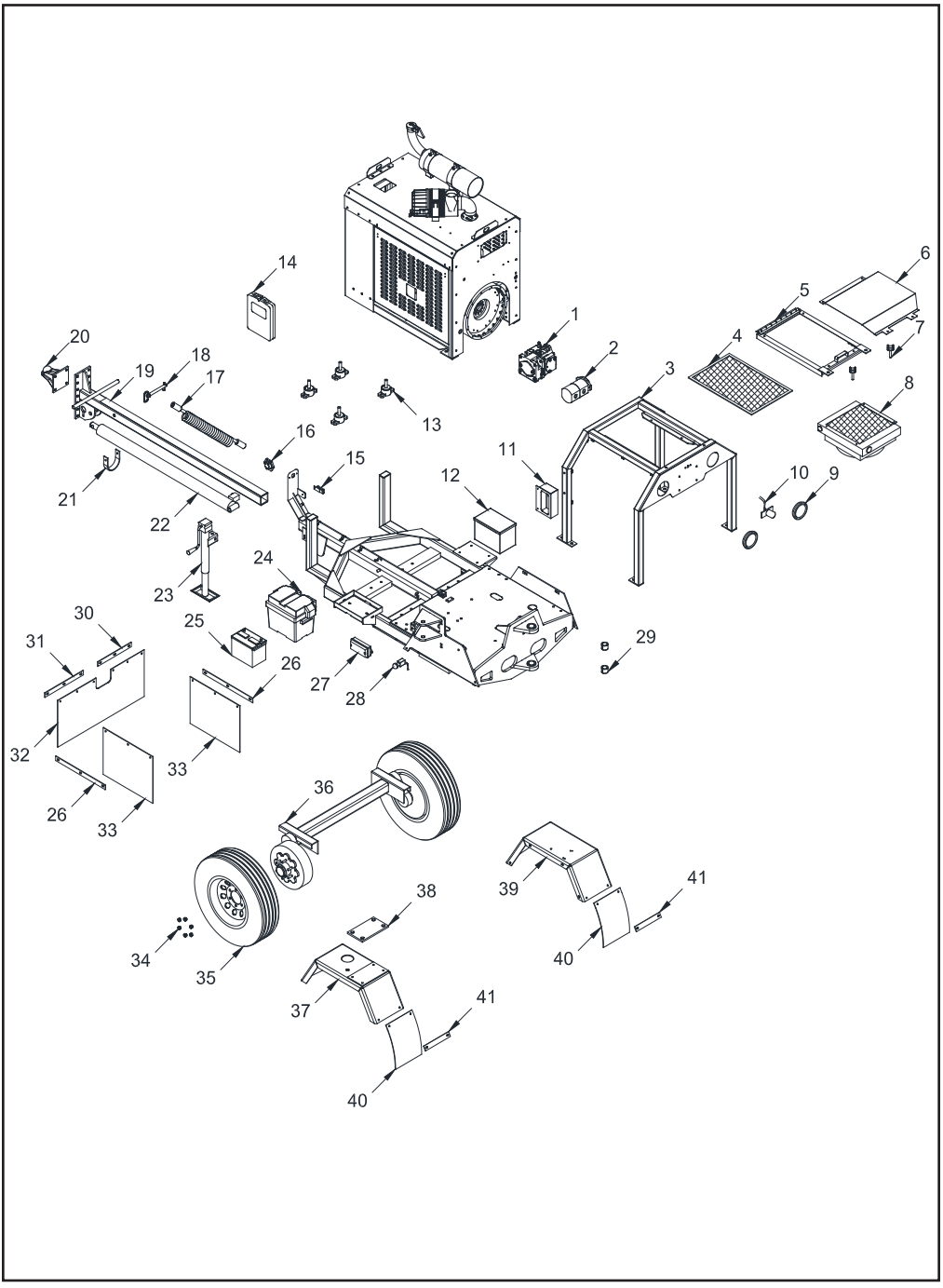
MODEL 2700 FRAME COMPONENTS



NOTICE

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NOTICE

Nuts, bolts, washers, and all other components can be ordered by physical description.

MODEL 2700 FRAME COMPONENTS

LOCATION	PART NUMBER	DESCRIPTION
1.	900-3934-97	Cutter Wheel Hydraulic Pump
2.	900-3956-87	Auxiliary Pump
3.	205-1000-16	Complete Roll Bar Assembly (Includes 3-10)
4.	900-6918-53	Radiator Screen
5.	205-2000-08	Cooler Cover Access Door Assembly (Includes 6-7)
6.	205-3001-21	Oil Cooler Upper Cover
7.	900-4917-94	Plastic Knob Assembly
8 a.	900-3952-11	Oil Cooler Assembly
b.	900-3962-73	Oil Cooler Temp Sensor
9.	900-2923-53	Tail Light Assembly
10.	900-2927-84	License Plate Light
11.	205-2000-24	Control Panel Assembly
12.	900-7900-78	Aluminum Tool Box (Option)
13.	900-6928-10	Engine Isolator
14.	900-9910-28	Manual Holder
15.	900-5900-09	Electrical Breakaway Switch
16.	900-2904-13	6-Prong Trailer Plug Female Plug Only
17.	900-2904-12	6-Prong Trailer Plug Male Plug Only
18.	900-4907-44	Telescoping Tongue Lock Pin
19 a.	205-2000-18	Telescoping Tongue Assembly
b.	900-4912-70	Safety Chain with Hooks and Spring Latches (Not Shown)
c.	900-4913-12	Hook For Safety Chain
d.	900-4908-15	Rubber Grip (Not Shown)
20 a.	974-1000-03	Hitch Assembly 2”
b.	900-5905-52	2” Ball Coupler
c.	900-5905-53	Hitch Assembly 2-5/16” (Optional)
21.	996-300021	Bottom Cylinder Guard
22.	900-3937-15	Extending Tongue Cylinder
23.	900-5908-44	Tongue Jack
24 a.	900-7900-08	Battery Box
b.	205-2000-15	Battery Tray Assembly
25.	900-6915-42	Battery - (31-XHD)
26.	205-3001-31	Side Chip Curtain Strap
27.	900-2902-41	Junction Box for Wiring
28.	900-2916-32	Limit Switch for Swing Out Arm
29.	900-1908-37	Split Bushing - 1-3/4” OD x 1-1/2” ID x 1-1/2”
30.	992-3004-42	Bottom Front Chip Curtain Strap - Curb Side
31.	205-3001-31	Bottom Front Chip Curtain Strap - Road Side
32.	205-3001-55	Bottom Front Chip Curtain
33.	205-3001-28	Bottom Side Chip Curtain
34.	900-4909-42	Wheel Lug Nut
35 a.	900-5907-21	ST225/75R-15” Tire and White Spoke, 6 Bolt Rim
b.	900-5905-98	ST225/75R-15” Tire Only
c.	900-5903-12	15” x 6” White Spoke, 6 Bolt Rim Only
36 a.	900-5910-32	6,000 Lb Torflex EZ Lube Axle Assembly - Electric Brake
b.	900-5913-57	6,000 Lb Torflex EZ Lube Axle Assembly - Electric Brake
37.	205-3000-16	Swing Out Fender (Roadside)
38.	205-3000-22	Swing Out Arm Wear Plate
39.	205-3000-15	Curb Side Fender
40.	205-3001-34	Mud Flap
41.	203-3001-49	Mud Flap Strap

NOTICE

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NOTICE

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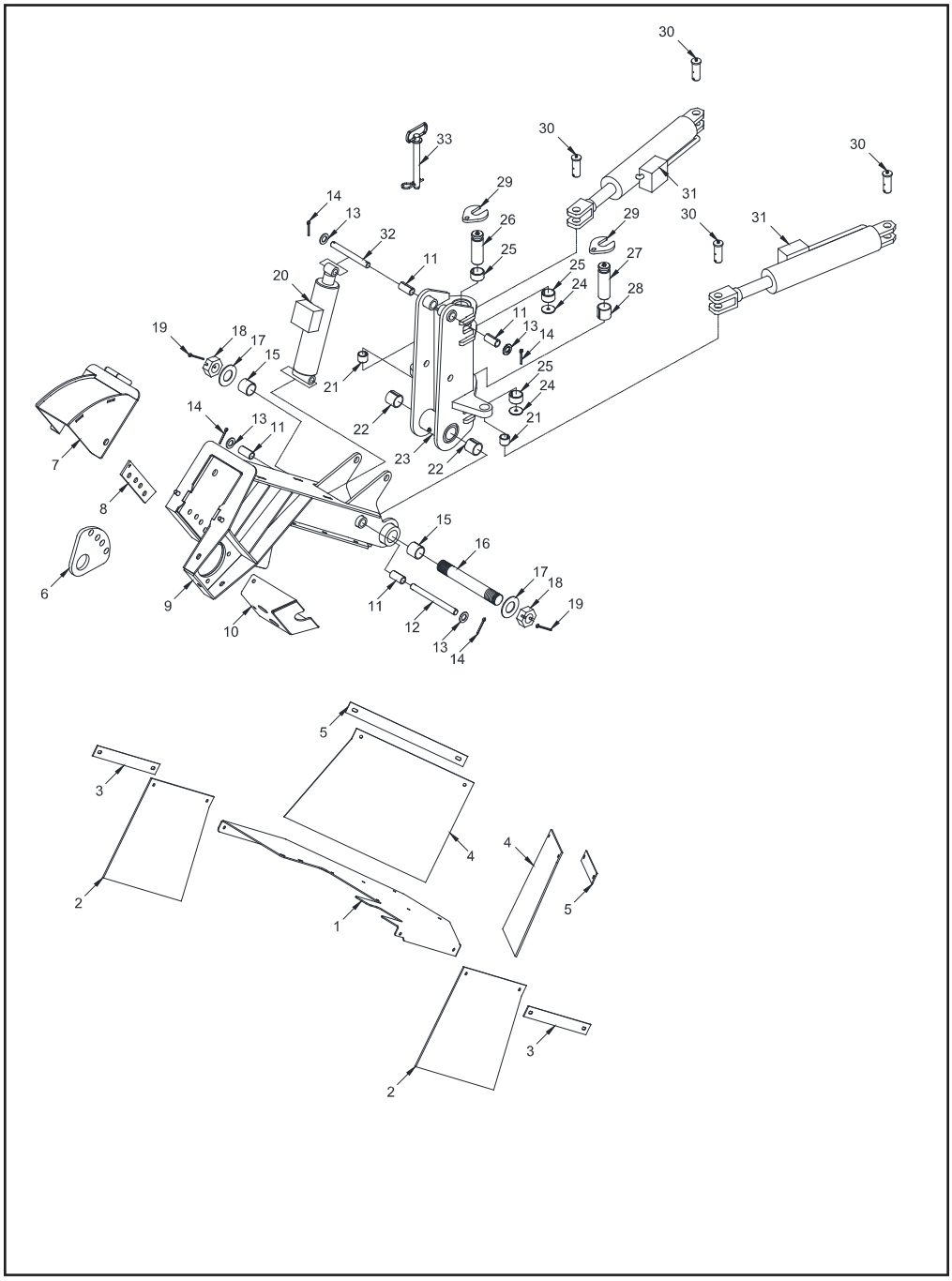
MODEL 2600 CUTTER WHEEL ARM COMPONENTS



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MODEL 2600 CUTTER WHEEL ARM COMPONENTS

LOCATION	PART NUMBER	DESCRIPTION
1.	204-2000-04	Chip Pan
2.	204-3001-81	Chip Curtain - 14” Wide
3.	204-3000-45	Chip Curtain Strap - 14”
4.	204-3001-82	Chip Curtain - 17” Wide
5.	204-3000-46	Chip Curtain Strap - 17”
6.	992-3004-78	Stub Shaft Brace
7.	204-2000-03	Cutter Wheel Guard
8.	204-3001-21	Backer Plate
9.	204-2000-02	Cutter Wheel Arm Assembly
10.	204-2000-24	Cutter Wheel Motor Guard Assembly
11.	900-1912-83	Split Bushing - 1” OD x 3/4” ID x 2”
12 a.	204-2000-14	Cutter Wheel Lift Cylinder Bottom Pin Assembly (Includes 12-14)
b.	204-3000-67	Cutter Wheel Lift Cylinder Bottom Pin Only
13.	900-4901-47	3/4” Mill Carb Washer
14.	900-4911-75	3/16” x 2” Cotter Pin
15.	900-1908-37	Split Bushing - 1-3/4” OD x 1-1/2” ID x 1-1/2”
16 a.	204-2000-15	Up / Down Main Pivot Pin Assembly (Includes 16-19)
b.	989-300982	Up / Down Main Pivot Pin Only
17.	900-4913-47	1-1/2” Mill Carb Washer
18.	900-4907-23	1-1/2”-6NC Slotted Hex Nut
19.	900-4907-60	3/16” x 3” Cotter Pin
20.	900-3940-29	Cutter Wheel Lift Cylinder
21.	900-1902-42	Split Bushing - 1-1/4” OD x 1” ID x 1”
22.	900-1908-37	Split Bushing - 1-3/4” OD x 1-1/2” ID x 1-1/2”
23.	205-2000-04	Swing Pivot Assembly
24.	900-4913-27	1-3/4” OD x 3/8” ID Custom Retainer Washer
25.	900-1912-84	Split Bushing - 1-3/4” OD x 1-1/2” ID x 1”
26 a.	204-2000-11	Upper Pivot Pin Assembly (Includes 24,29)
b.	204-3000-64	Upper Pivot Pin Only
c.	900-4900-06	Threaded Grease Zerk - 1/8”
27 a.	204-2000-12	Lower Pivot Pin Assembly (Includes 24,29)
b.	204-3000-65	Lower Pivot Pin Only
c.	900-4900-06	Threaded Grease Zerk - 1/8”
28.	900-1908-37	Split Bushing - 1-3/4” OD x 1-1/2” ID x 1-1/2”
29.	992-3004-44	Pivot Pin Keeper
30.	900-3934-20	Cylinder Pin - 1” x 2-7/8”
31.	900-3958-81	Swing Cylinder
32. a.	204-2000-13	Cutter Wheel Lift Cylinder Top Pin Assembly (Includes 13,14,32)
b.	204-3000-66	Cutter Wheel Lift Cylinder Top Pin Only
33.	900-4907-44	Cutter Wheel Lock Pin

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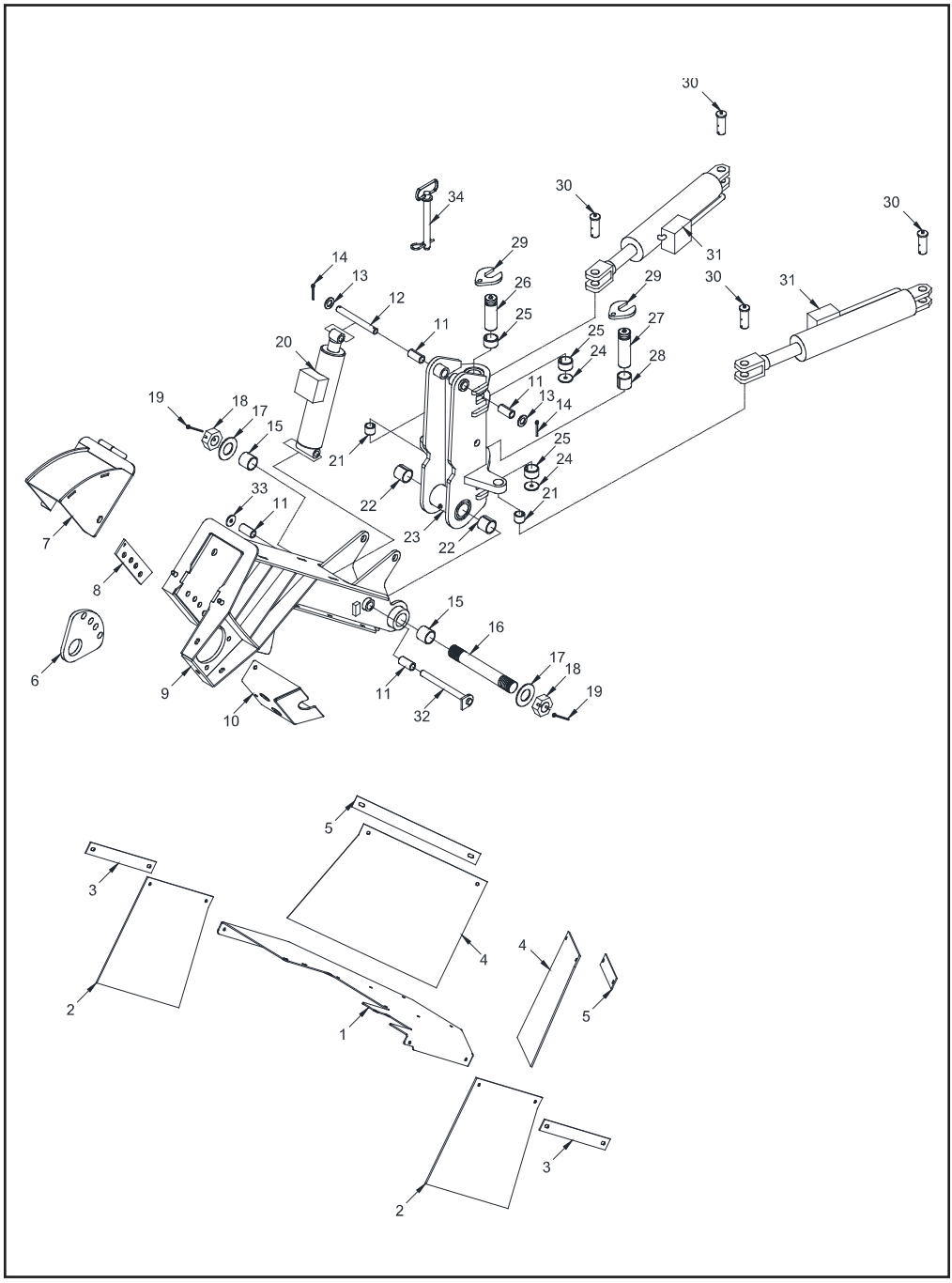
MODEL 2700 CUTTER WHEEL ARM COMPONENTS



NOTICE

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MODEL 2700 CUTTER WHEEL ARM COMPONENTS

LOCATION	PART NUMBER	DESCRIPTION
1.	992-2001-02	Chip Pan
2.	992-3004-97	Chip Curtain - 18” Wide
3.	992-3004-42	Chip Curtain Strap - 18”
4.	992-3004-96	Chip Curtain - 15” Wide
5.	989-300861	Chip Curtain Strap - 15”
6.	992-3004-78	Stub Shaft Brace
7.	992-2001-00	Cutter Wheel Guard
8.	992-3004-79	Backer Plate
9.	992-2000-96	Cutter Wheel Arm Assembly
10.	992-2001-09	Cutter Wheel Motor Guard Assembly
11.	900-1912-83	Split Bushing - 1” OD x 3/4” ID x 2”
12 a.	204-2000-13	Cutter Wheel Lift Cylinder Top Pin Assembly (Includes 12-14)
b.	204-3000-66	Cutter Wheel Lift Cylinder Top Pin Only
13.	900-4901-47	3/4” Mill Carb Washer
14.	900-4911-75	3/16” x 2” Cotter Pin
15.	900-1908-37	Split Bushing - 1-3/4” OD x 1-1/2” ID x 1-1/2”
16 a.	204-2000-15	Up / Down Main Pivot Pin Assembly (Includes 16-19)
b.	989-300982	Up / Down Main Pivot Pin Only
17.	900-4913-47	1-1/2” Mill Carb Washer
18.	900-4907-23	1-1/2”-6NC Slotted Hex Nut
19.	900-4907-60	3/16” x 3” Cotter Pin
20.	900-3940-29	Cutter Wheel Lift Cylinder
21.	900-1902-42	Split Bushing - 1-1/4” OD x 1” ID x 1”
22.	900-1908-37	Split Bushing - 1-3/4” OD x 1-1/2” ID x 1-1/2”
23.	205-2000-23	Swing Pivot Assembly
24.	900-4913-27	1-3/4” OD x 3/8” ID Custom Retainer Washer
25.	900-1912-84	Split Bushing - 1-3/4” OD x 1-1/2” ID x 1”
26 a.	204-2000-11	Upper Pivot Pin Assembly (Includes 24,29)
b.	204-3000-64	Upper Pivot Pin Only
c.	900-4900-06	Threaded Grease Zerk - 1/8”
27 a.	204-2000-12	Lower Pivot Pin Assembly (Includes 24,29)
b.	204-3000-65	Lower Pivot Pin Only
c.	900-4900-06	Threaded Grease Zerk - 1/8”
28.	900-1908-37	Split Bushing - 1-3/4” OD x 1-1/2” ID x 1-1/2”
29.	992-3004-44	Pivot Pin Keeper
30.	900-3934-20	Cylinder Pin - 1” x 2-7/8”
31.	900-3958-81	Swing Cylinder
32.	989-200023	Cutter Wheel Lift Cylinder Bottom Pin Assembly (Includes 32-33)
33.	900-4913-46	Retaining Washer
34.	900-4907-44	Cutter Wheel Lock Pin

NOTICE

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NOTICE

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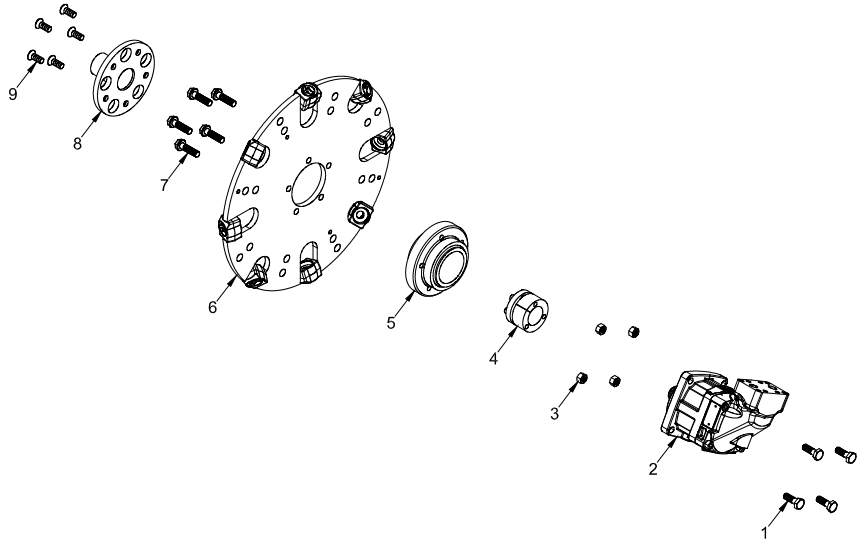
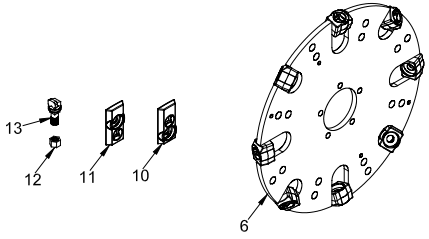
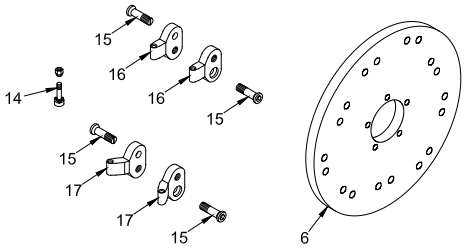
MODEL 2600 CUTTER WHEEL & TEETH COMPONENTS



NEW RIVER “REVOLUTION” CUTTER WHEEL & TEETH



BANDIT CUTTER WHEEL WITH GREEN TEETH



NOTICE

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NOTICE

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MODEL 2600 CUTTER WHEEL & TEETH COMPONENTS

LOCATION	PART NUMBER	DESCRIPTION
1.	900-4918-42	14mm x 55mm Hex Head Bolt
2 a.	900-3946-18	Cutter Wheel Motor
b.	900-3943-13	Manifold Block For Cutter Wheel Motor
3.	900-4907-88	14mm Hex Nut
4.	900-1918-25	Taper Lock Coupler
5.	204-3000-91	Cutter Wheel Hub
6 a.	900-9912-86	New River “Revolution” Cutter Wheel - Hex Teeth (Incl. Teeth & Holders)
b.	900-9909-85	New River “Revolution” Cutter Wheel - Square Teeth (Incl. Teeth & Holders)
c.	203-3001-05	Bandit Cutter Wheel for Green Teeth
7.	900-4909-27	1/2”-13NC x 2-1/4” Hex Head Bolt
8.	204-2000-36	Stub Shaft Assembly
9.	900-4916-96	1/2”-13NC x 1-1/4” Flat Head Cap Screw
10.	900-9912-25	Holder With Locator Pin for Hex Teeth (8 Required)
11.	900-9912-26	Holder Without Locator Pin for Hex Teeth (8 Required)
12.	900-9909-99	Tooth Nut (24 Required)
13 a.	900-9912-24	Lead Tooth “Shorts” - Hex (8 Required)
b.	900-9912-23	Side Tooth “Longs” - Hex (16 Required)
14 a.	900-9907-91	Green Tooth With Nut
b.	900-9907-92	Red Tooth With Nut
15.	900-9907-14	Pocket Bolt
16.	900-9907-87	Straight Pocket
17.	900-9907-86	Angle Pocket
18.	900-9908-24	18 Red Teeth Kit - Includes Pockets & Bolts
19.	900-9904-57	1/2” Allen Key Socket For 1/2” Drive (Not Shown)

NOTICE

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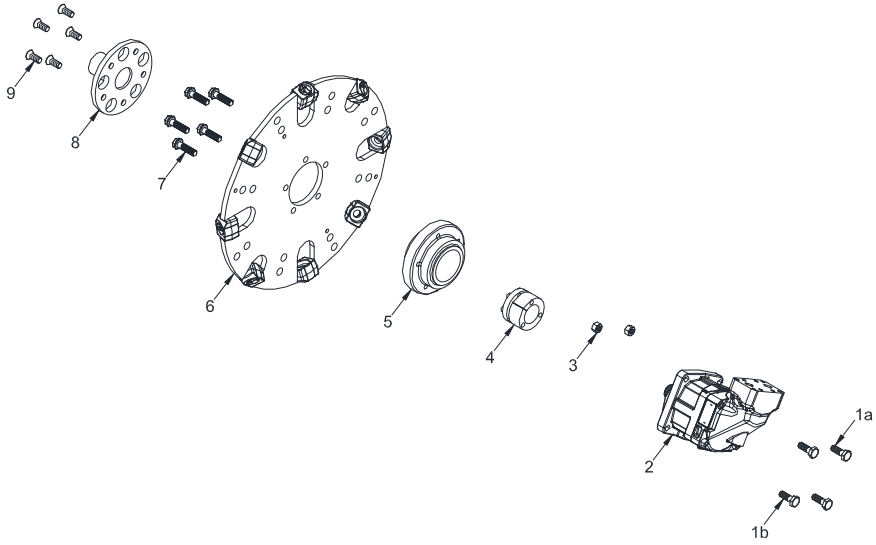
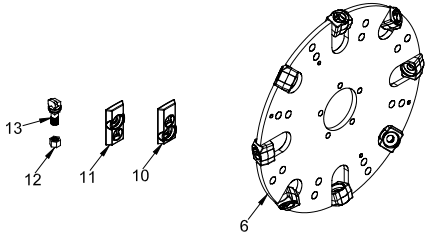
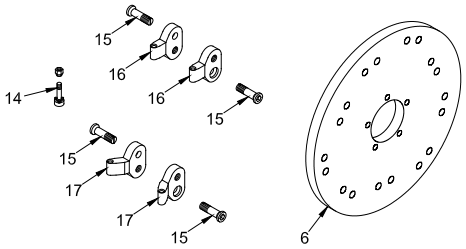
MODEL 2700 CUTTER WHEEL & TEETH COMPONENTS



NEW RIVER “REVOLUTION” CUTTER WHEEL & TEETH



BANDIT CUTTER WHEEL WITH GREEN TEETH



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MODEL 2700 CUTTER WHEEL & TEETH COMPONENTS

LOCATION	PART NUMBER	DESCRIPTION
1 a.	900-4902-77	3/4”-10NC x 2-1/4” Hex Head Bolt: (Qty. 2)
b.	900-4902-78	3/4”-10NC x 2-1/2” Hex Head Bolt: (Qty. 2)
2 a.	900-3963-70	Cutter Wheel Motor
b.	900-3956-52	Manifold Block For Cutter Wheel Motor
3.	900-4910-19	3/4”-10NC Hex Nut: (Qty. 2)
4.	900-1919-91	Taper Lock Coupler
5.	992-3005-01	Cutter Wheel Hub
6 a.	900-9912-87	New River “Revolution” Cutter Wheel - Hex Teeth (Incl. Teeth & Holders)
b.	992-3001-48	Bandit Cutter Wheel for Green Teeth
7.	900-4909-27	1/2”-13NC x 2-1/4” Hex Head Bolt
8.	992-2001-12	Stub Shaft Assembly
9.	900-4916-96	1/2”-13NC x 1-1/4” Flat Head Cap Screw
10.	900-9912-25	Holder With Locator Pin for Hex Teeth (8 Required)
11.	900-9912-26	Holder Without Locator Pin for Hex Teeth (8 Required)
12.	900-9909-99	Tooth Nut (32 Required)
13 a.	900-9912-24	Lead Tooth “Shorts” - Hex (8 Required)
b.	900-9912-23	Side Tooth “Longs” - Hex (24 Required)
14 a.	900-9907-91	Green Tooth With Nut
b.	900-9907-92	Red Tooth With Nut
15.	900-9907-14	Pocket Bolt
16.	900-9907-87	Straight Pocket
17.	900-9907-86	Angle Pocket
18.	900-9908-24	18 Red Teeth Kit - Includes Pockets & Bolts
19.	900-9904-57	1/2” Allen Key Socket For 1/2” Drive (Not Shown)

NOTICE

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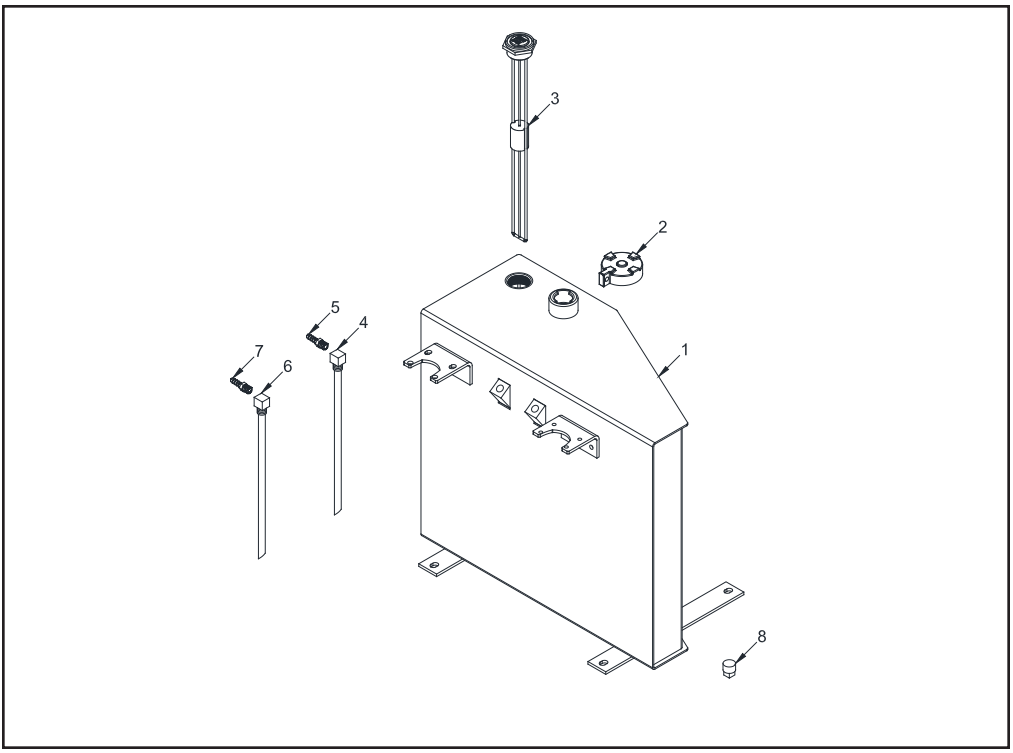
NOTICE

Nuts, bolts, washers, and all other components can be ordered by physical description.

MODEL 2600 FUEL TANK COMPONENTS



LOCATION	PART NUMBER	DESCRIPTION
1.	205-1000-04	Fuel Tank Assembly 18.5 Gallon (70 L)
2. a.	900-3941-31	Fuel (Diesel) Locking Fill Cap - Green
b.	900-4912-40	Padlock With Short Shackle for Tank With Locking Cap (Not Shown)
c.	P812	Key for Padlock (Not Shown)
3. a.	900-2903-94	Rochester Sight Gauge for Fuel Tank - 18”
b.	900-2903-55	Face for Sight Gauge Only
4.	900-3909-00	Return Drop Pipe Assembly w/o Barb (1/2” NPTF x 3/8” NPTF)
5.	900-3909-01	1/4” NPTF To 5/16” Hose Barb
6.	900-3909-00	Return Drop Pipe Assembly w/o Barb (1/2” NPTF x 3/8” NPTF)
7.	900-3936-29	1/4” NPTF To 3/16” Hose Barb
8.	900-3922-60	Magnetic Drain Plug

NOTICE

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NOTICE

Tank assemblies vary with options. Specify all options when ordering.

NOTICE

Components vary with fuel type. Specify gas or diesel when ordering fuel tank components.

NOTICE

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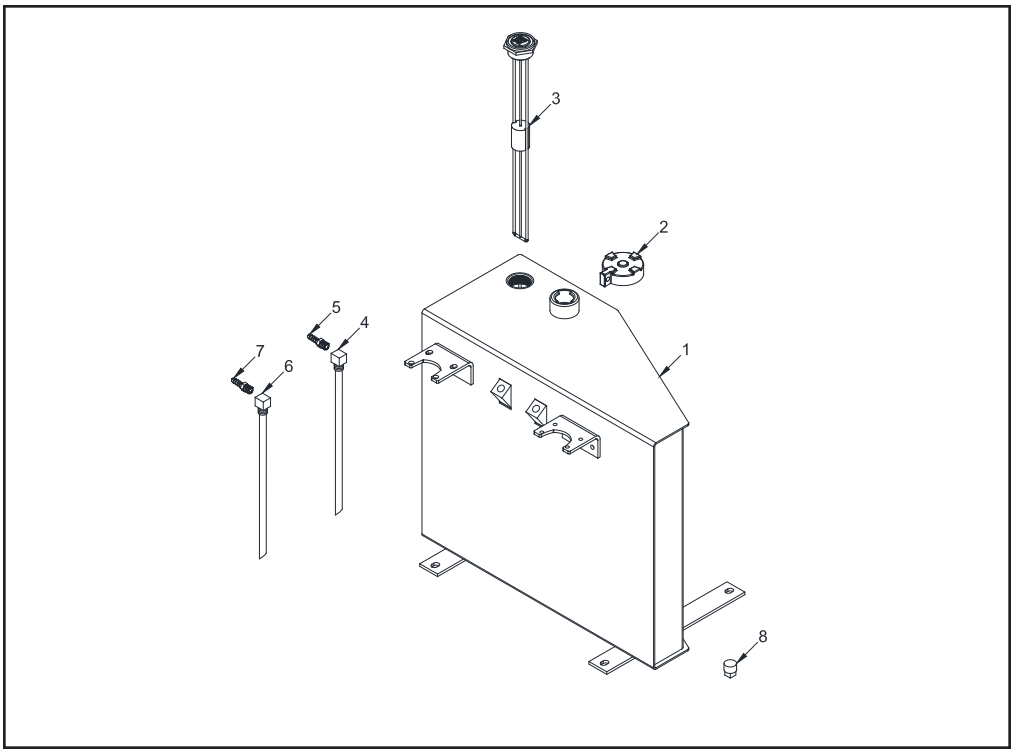
MODEL 2700 FUEL TANK COMPONENTS



LOCATION	PART NUMBER	DESCRIPTION
1.	205-1000-12	Fuel Tank Assembly 25.5 Gallon (96.5 L)
2. a.	900-3941-31	Fuel (Diesel) Locking Fill Cap - Green
b.	900-4912-40	Padlock With Short Shackle for Tank With Locking Cap (Not Shown)
c.	P812	Key for Padlock (Not Shown)
3. a.	900-2903-95	Rochester Sight Gauge for Fuel Tank - 24”
b.	900-2903-55	Face for Sight Gauge Only
4.	900-3926-84	Suction Drop Pipe Assembly w/o Barb (1/2” NPTF x 3/8” NPTF)
5.	900-3926-82	3/8” NPTF To 3/8” Hose Barb
6.	900-3909-00	Return Drop Pipe Assembly w/o Barb (3/8” NPTF x 1/4” NPTF)
7.	900-3931-53	1/4” NPTF To 5/16” Hose Barb
8.	900-3922-60	Magnetic Drain Plug

NOTICE

Parts may not be exactly as shown.

NOTICE

Tank assemblies vary with options. Specify all options when ordering.

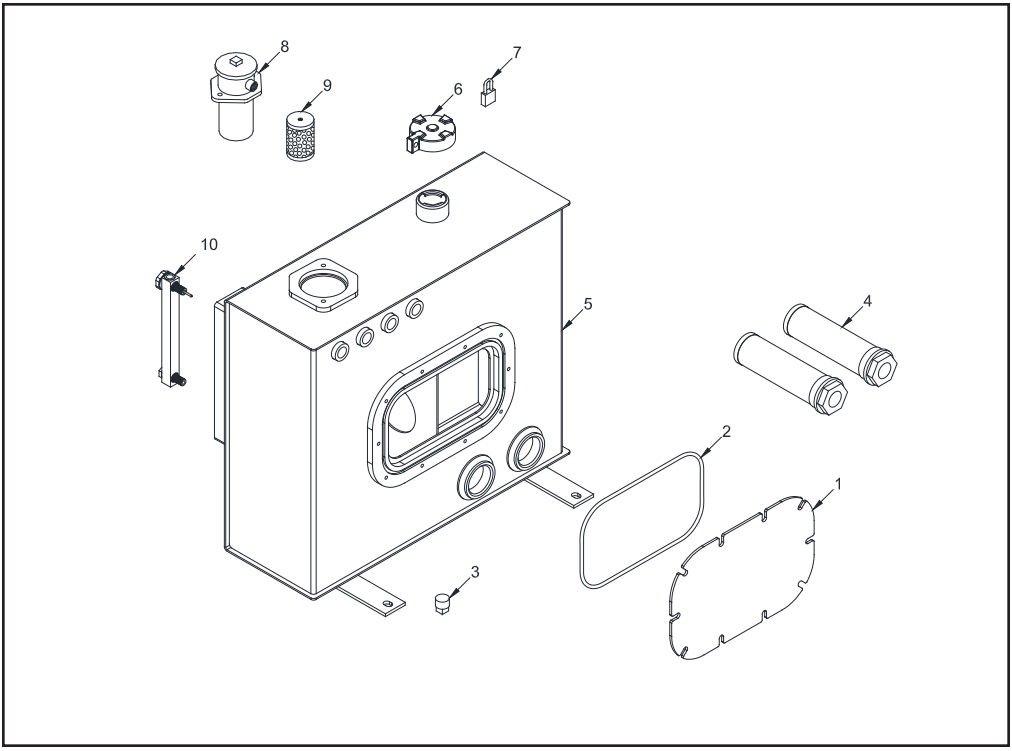
NOTICE

Components vary with fuel type. Specify gas or diesel when ordering fuel tank components.

NOTICE

Nuts, bolts, washers, and all other components can be ordered by physical description.

MODEL 2600 HYDRAULIC TANK COMPONENTS



LOCATION	PART NUMBER	DESCRIPTION
1.	989-300911	Clean Out Door - Hydraulic tank
2.	900-3950-32	Rubber O-Ring
3.	900-3922-60	Magnetic Drain Plug
4.	900-3932-05	Suction Screen - SAE
5.	205-2000-06	Hydraulic Tank Assembly
6. a.	900-3941-30	Hydraulic Locking Fill Cap - Black
b.	900-3935-06	Keeper for Fuel & Hydraulic Locking Fill Cap (Not Shown)
7. a.	900-4912-40	Padlock With Short Shackle for Tank With Locking Cap (Not Shown)
b.	P812	Key for Padlock (Not Shown)
8.	900-3950-56	In-Tank Return Filter Assembly - Includes Filter
9.	900-3950-58	In-Tank Hydraulic Oil Filter Only
10.	900-3901-78	Level / Temperature Gauge

NOTICE

Parts may not be exactly as shown.

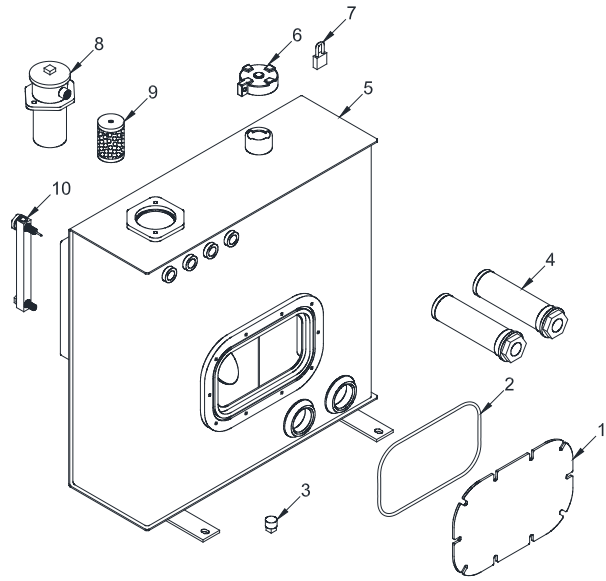
NOTICE

Tank assemblies vary with options. Specify all options when ordering.

NOTICE

Nuts, bolts, washers, and all other components can be ordered by physical description.

MODEL 2700 HYDRAULIC TANK COMPONENTS



LOCATION	PART NUMBER	DESCRIPTION
1.	989-300911	Clean Out Door - Hydraulic tank
2.	900-3950-32	Rubber O-Ring
3.	900-3922-60	Magnetic Drain Plug
4.	900-3932-05	Suction Screen - SAE
5.	205-2000-19	Hydraulic Tank Assembly
6. a.	900-3941-30	Hydraulic Locking Fill Cap - Black
b.	900-3935-06	Keeper for Fuel & Hydraulic Locking Fill Cap (Not Shown)
7. a.	900-4912-40	Padlock With Short Shackle for Tank With Locking Cap (Not Shown)
b.	P812	Key for Padlock (Not Shown)
8.	900-3950-56	In-Tank Return Filter Assembly - Includes Filter
9.	900-3950-58	In-Tank Hydraulic Oil Filter Only
10.	900-3901-78	Level / Temperature Gauge

NOTICE

Parts may not be exactly as shown.

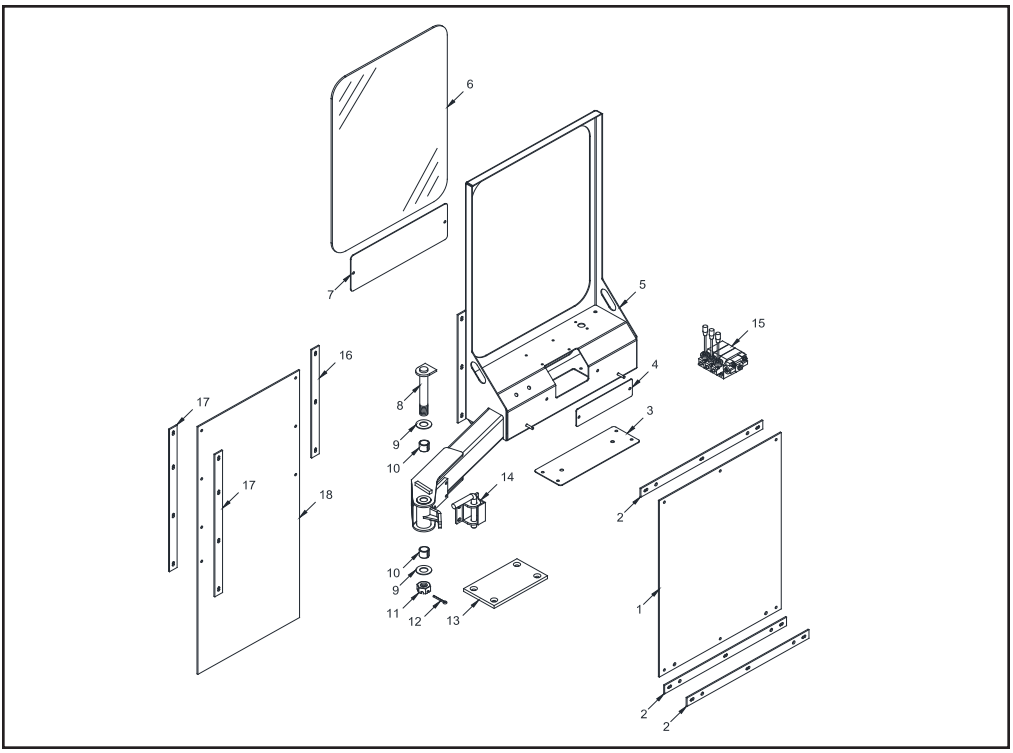
NOTICE

Tank assemblies vary with options. Specify all options when ordering.

NOTICE

Nuts, bolts, washers, and all other components can be ordered by physical description.

2600/2700 SWING OUT ARM COMPONENTS



LOCATION	PART NUMBER	DESCRIPTION
1.	205-3001-13	Swing Out Chip Curtain
2. a.	205-3001-14	Swing Out Chip Curtain Strap
b.	900-4915-64	Swing Out Curtain Strap Pin (Not Shown)
3.	203-3001-88	Swing Out Bottom Cover
4.	203-3001-95	Swing Out Front Cover
5. a.	205-2000-02	Swing Out Assembly
b.	205-1000-03	Swing Out Complete Assembly
6. a.	992-3002-78	Swing Out Window
b.	900-8900-07	Window Seal (Not Shown)
7.	203-3001-64	Swing Out Arm Access Door
8.	203-2000-38	Swing Out Pin
9.	203-3002-14	Swing Out Spacer
10.	900-1902-50	Split Bushing - 1-1/4” OD x 1” ID x 1”
11.	900-4909-08	1”-8NC Slotted Hex Nut
12.	900-4911-75	3/16” x 2” Cotter Pin
13.	205-3000-22	Swing Out Slide Plate (Mounted to Fender)
14 a.	203-2000-42	Spring Pin Assembly
b.	900-7900-96	Rubber Cap For Spring Lock (Not Shown)
15	900-3926-08	Manual Control Valve: 3 Bank
16	205-3001-15	Side Curtain Strap - Short
17	205-3001-16	Side Curtain Strap - Long
18.	205-3001-17	Side Chip Curtain

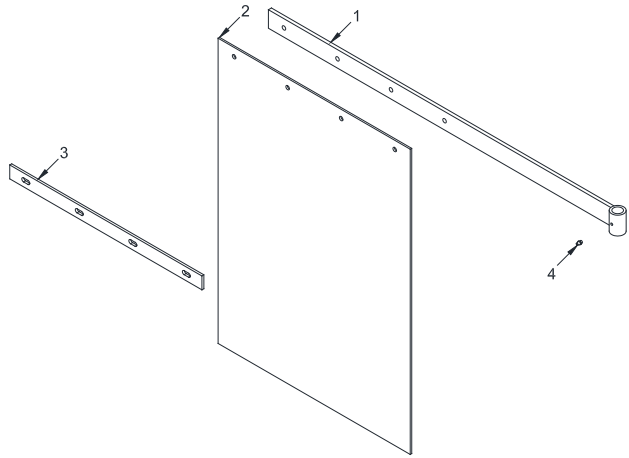
NOTICE

Parts may not be exactly as shown.

NOTICE

Nuts, bolts, washers, and all other components can be ordered by physical description.

2600 CURTAIN COMPONENTS



LOCATION	PART NUMBER	DESCRIPTION
1.	996-1001-35	Curtain Assembly
a.	996-2000-40	Chip Curtain Arm Assembly
2.	996-300182	Chip Curtain
3.	996-300176	Chip Curtain Strap
4.	900-4911-84	Drive in Grease Zerk - 1/4”

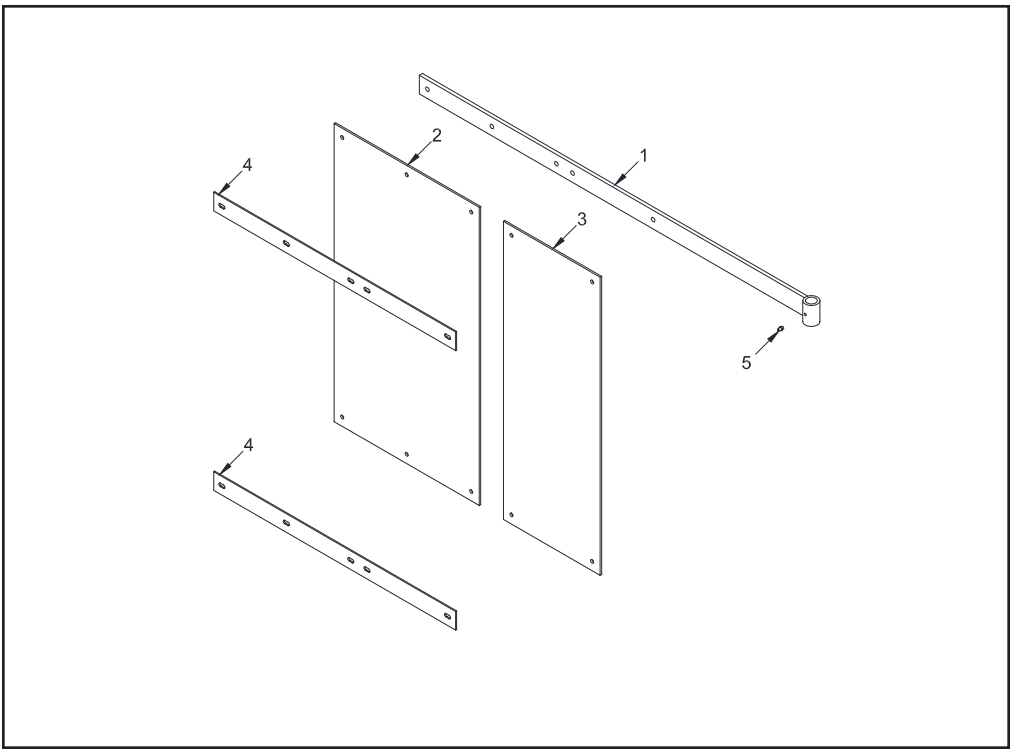
NOTICE

Parts may not be exactly as shown.

NOTICE

Nuts, bolts, washers, and all other components can be ordered by physical description.

2700 CURTAIN COMPONENTS



LOCATION	PART NUMBER	DESCRIPTION
1.	205-1000-14	Curtain Assembly
a.	205-2000-22	Chip Curtain Arm Assembly
2.	205-3001-08	Chip Curtain - Large
3.	205-3001-09	Chip Curtain - Small
4.	205-3001-11	Chip Curtain Strap
5.	900-4911-84	Drive in Grease Zerk - 1/4”

NOTICE

Parts may not be exactly as shown.

NOTICE

Nuts, bolts, washers, and all other components can be ordered by physical description.

2600/2700 HYDRAULIC COMPONENTS

1.

HYDRAULIC FILTER HEAD

Filter Element Only: 900-3950-58
In-Tank Return Filter Ass'y: 900-3950-56

2.

AUX DRIVE HIGH PRESSURE FILTER & AUX FUNCTION PRESSURE FILTER

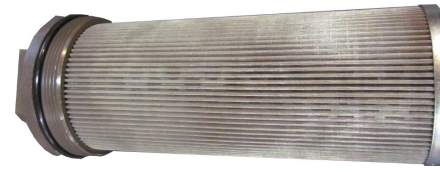
Filter Element Only: 900-3931-99
Charge Filter Ass'y: 900-3935-44

3.

CUTTER PUMP CHARGE PRESSURE FILTER

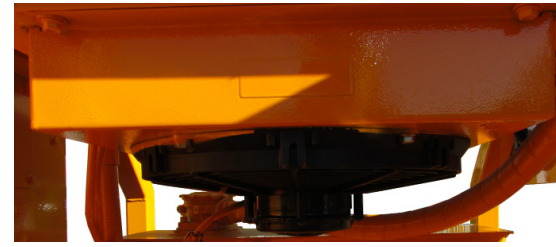
Filter Element Only: 900-3944-57
High Pressure Filter Ass'y: 900-3955-82

4.



IN TANK SUCTION SCREEN
2600: 900-3925-21 (2x)
2700: 900-3932-05 (2x)

5.



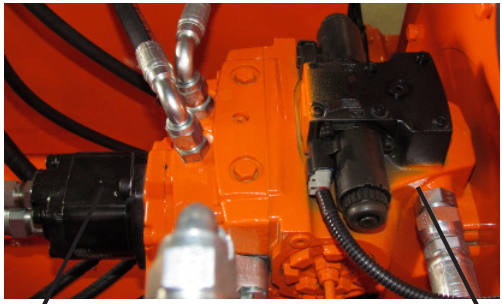
OIL COOLER
900-3952-11

NOTICE

Parts may not be exactly as shown.

2600/2700 HYDRAULIC COMPONENTS

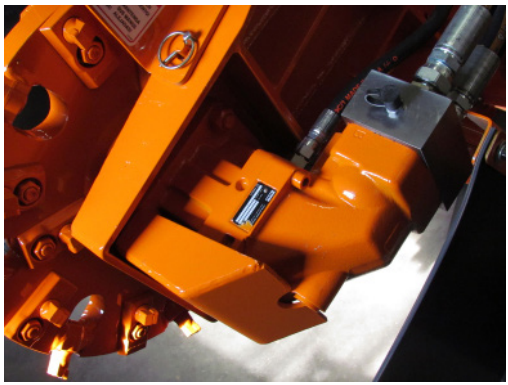
1.



Drive / Auxiliary Pump:
Refer To Check Sheet

Cutter Head Pump:
Refer To Check Sheet

2.



2600 Cutter Head Motor: 900-3946-18, Cutter Head Manifold: 900-3943-13
2700 Cutter Head Motor: 900-3963-70, Cutter Head Manifold: 900-3956-52

3.

Manual Control Valve - 3 Bank: 900-3926-08
Valve Handle Only: 900-3952-76

NOTICE

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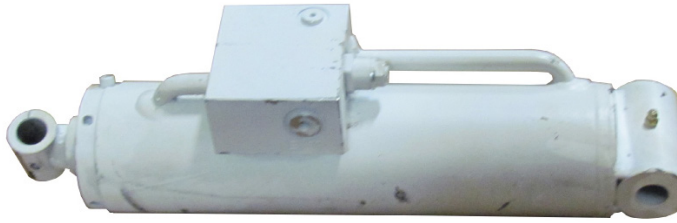
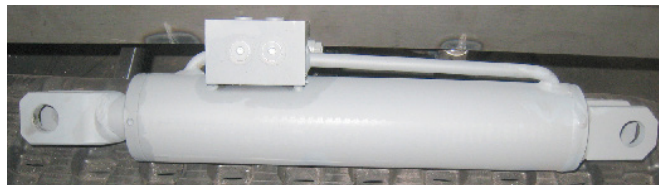
2600/2700 HYDRAULIC COMPONENTS

1.



Cutter Head Lift Cylinder: 900-3940-29
Counter Balance Relief: 900-3944-87

2.



Swing Cylinder: 900-3958-81
Counter Balance Relief: 900-3944-87

3.

2600 Extending Tongue Cylinder: 900-3937-14
2700 Extending Tongue Cylinder: 900-3937-15

4.

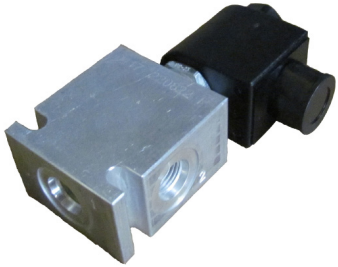
Cross Line Swing Relief: 900-3965-87

NOTICE

Parts may not be exactly as shown.

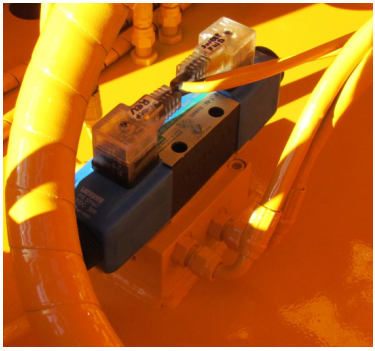
2600/2700 HYDRAULIC COMPONENTS

1.



Dump Valve Block: 900-3935-35
Solenoid Only: 900-3952-82
Cartridge Only: 900-3952-81

2.



Super Sweep Valve Block: 900-3926-12
Double Coil Electric Valve: 900-3930-99

NOTICE

Parts may not be exactly as shown.

SERVICE RECORD

DATE	DESCRIPTION	AMOUNT

SERVICE RECORD

DATE	DESCRIPTION	AMOUNT