



BRUSH BANDIT

**BUILT WITH QUALITY
AND DESIGN FIRST**

ATTENTION:

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

CHIPPER COMPONENTS

Serial Number
Model Number of Chipper

ENGINE COMPONENTS

Brand
Engine Serial Number
Engine Spec. Number

CLUTCH COMPONENTS

Brand
Serial Number
Assembly of Clutch



BRUSH CHIPPER MODELS 65XP(XL)/95 OPERATING & PARTS MANUAL

Model No: _____

Serial No: _____

DEALER:

Name: _____

Address: _____

City/State: _____

Phone No: _____

Delivery Date: _____

Engine Make: _____

Serial No: _____

Clutch Make: _____

Model: _____ S/N _____

Copyright 1/10

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

TABLE OF CONTENTS

	PAGES
INTRODUCTION & WARRANTY	2
SERIAL NUMBER LOCATION	6
SAFETY PROCEDURES	7
EQUIPMENT SPECIFICATIONS	13
DECALS	15
AUTOFEED OPTIONS	27
CONTROLS.....	31
TRANSPORTATION PROCEDURES	39
MAINTENANCE	41
HYDRAULIC SECTION	62
CHIPPER SECTION	82
LUBRICATION & COOLANT.....	85
ELECTRICAL SECTION	86
REPLACEMENT PARTS SECTION	87
INFEED HOPPER COMPONENTS	88
DUAL FEEDWHEEL COMPONENTS	92
CHIPPER COMPONENTS	94
CHIPPER KNIFE & HARDWARE	98
ANVIL & HARDWARE	99
DISCHARGE COMPONENTS	100
HYDRAULIC COMPONENTS	107
FRAME & ACCESSORY COMPONENTS	120
FUEL & HYDRAULIC TANK COMPONENTS	126
CHIP BOX & ACCESSORY COMPONENTS	130
OPTIONAL COMPONENTS	134
PTO COMPONENTS	137
SERVICE RECORD	148

NOTICE

IF THE MACHINE HAS A LOADER OR TRACK UNDERCARRIAGE, CONTACT DEALER OR MANUFACTURER FOR MORE INFORMATION.

NOTICE




IF THE MACHINE HAS A LOADER OR TRACK UNDERCARRIAGE, A SEPARATE (LOOSE) HYDRAULIC AND ELECTRIC SCHEMATIC IS SUPPLIED WITH THE MACHINE.

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 preceded 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 insure 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. **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

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, whichever ever comes first.

This warranty takes effect upon delivery to the original retail purchaser. The manufacturer at its 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 not apply if the Bandit Chipper is not operated with replacement parts or equipment not manufactured or recommended by Bandit Industries, Inc.

This warranty will not apply if the Bandit Chipper 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 Chipper 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 Chipper was involved in, or damaged by an accident.
6. The Chipper 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 knives, knife anvil, 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.

INTRODUCTION & WARRANTY

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	1-888-803-9175	Dexter Axles	1-574-295-7888
Kohler Engines	1-800-854-9273	Tires	1-989-463-4088
Kubota Engines	1-800-457-7056	Caterpillar Tracks	1-309-636-1100
Robin Engines	1-248-399-0002	Chermack Tracks	1-715-458-2655
Wisconsin Engines	1-800-726-8870	Petro-Canada Hydrex XV	1-888-284-4572
Interstate Batteries	1-800-331-2000		

(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.

Bandit

TYPICAL CHIPPER SERIAL NUMBER AND/OR WORK ORDER NUMBER LOCATIONS






- 1. Beltshield
- 2. Hinged chipper hood under handle (95 only)
- 3. Top of throat
- 4. Tongue and a-frame side
- 5. Top of frame
- 6. W/O # on top of tongue

NOTICE The engine information is located on the engine block. The clutch information is located on the clutch plate (if equipped).

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.

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.

DANGER

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

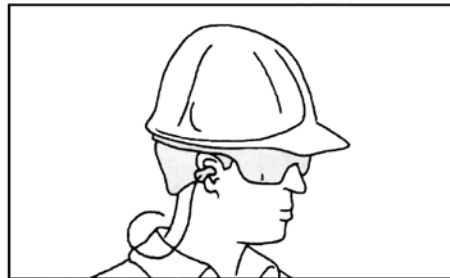
WARNING

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

Torn or loose clothing is more likely to get caught in moving machinery parts or tree branches. 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. Do not wear gauntlet or secured fit gloves. Always keep a fully charged fire extinguisher with the machine while operating or servicing the machine.



NOTICE

Striped reflective tape has been installed on the feed control handle of the machine. This tape is reflective, self adhesive and has contrasting colors. The tape helps make the feed control handle stand out more and it makes the rear of the machine more visible to a vehicle behind the machine while transporting. Striped tape can be obtained through your local Bandit Dealer.

Bandit

SAFETY PROCEDURES

DANGER

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

DANGER

Pay attention to the direction of the discharge chute before chipping. Never stand in front of the chipper discharge chute. Never direct the chute towards anyone or anything that could cause an accident or problems. Always stop chipping and warn anyone that comes near the discharge area. Failure to do this could result in severe injury. Wood chips flying out of the discharge chute can be very dangerous!

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 anvil and knife nuts and bolts, etc. for torque and fit.

Most of the nuts used on the machine are self locking. After a nut or bolt has been removed five times, it should be replaced to insure proper tightness. This is especially critical on the chipper knife nuts and bolts!

After the engine is started, let the chipper disc/drum 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.

DANGER

Never reach into the infeed hopper area of the machine, there is never any reason to. The feedwheel(s) are designed to pull trees and brush of any length into the machine. Pulling a hand, arm, foot or entire body through the machine is much easier than pulling a tree. Do not think you will be able to pull yourself free of the feedwheel(s), they will not let go. There is absolutely no reason to work inside of the infeed hopper. If the feedwheel(s) become tangled or clogged, stop the machine and wait several minutes before cleaning them out. If there are short pieces, or leaves and twigs, just leave them until feeding longer pieces. While the long pieces are feeding, simply toss the short pieces on top of them. The longer pieces will take them on into the machine.

A wooden push paddle has been provided to assist in feeding smaller material. It is the owner's and operator's responsibility to use and keep a wooden push paddle with the machine and to also secure it when transporting the machine. **DO NOT** use any body parts or any steel devices inside the infeed hopper area.

If there is larger diameter wood, try to feed it with smaller diameter wood. Start a small diameter limb which will partially open the feedwheel(s). Once the feedwheel(s) are partially open it is much easier to insert the larger diameter wood.

When feeding larger diameter wood, listen for the engine to possibly lug down. If it starts lugging down stop the feedwheel(s) by pushing the hydraulic control bar to off, and let the engine recover to full speed. If the machine is equipped with Autofeed and it is functioning properly, the feed system will automatically stop to let the engine recover. This will help stop the machine from plugging the discharge chute.

NOTICE

Do not attempt to start the engine or engage the engine PTO (power-take-off) system on this machine if the chipper disc/drum 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.

WARNING

This chipper is designed to "HAND FED" only! **DO NOT** feed wood with any type of knuckle boom loader, front end loader, or mechanical device. It will cause damage to the machine. If this happens, the machine **WILL NOT** be covered under warranty.

Bandit

SAFETY PROCEDURES

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

Never feed any materials that might contain wires, stones, nails, metal objects, or any foreign object which may damage the knives and become dangerous projectiles.

DANGER

DO NOT feed vines or vine-like material! DO NOT pile vines or vine-like material in front of the infeed hopper which may cause you to trip or fall! DO NOT allow vines or limbs to become entangled with you or your clothing! DO cut vine-like material into 4 to 5 foot (1.2 to 1.5 meter) length's, away from the chipper area! DO stop the feed system before feeding the cut vine-like material into the infeed hopper! DO use a wooden pusher paddle when feeding the cut vines into the feedwheel(s)! ALWAYS be in position and prepared to activate the feed control handle!

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.

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 insure 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

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

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

ALWAYS install the disc/drum lock pin to prevent inadvertent rotation. On disc chippers insert lock pin through lock pin tube on the belly band under hood rest. On drum chippers insert lock pin through lock pin tube on side of drum housing.

Simply slide the lock pin into the disc/drum lock tube. This is to insure that the chipper disc/drum cannot be started while you are working inside the machine. If for some reason the chipper disc/drum would start to turn, it would simply hit the lock pin.

DANGER

DO NOT remove the hood pin until the chipper disc/drum has come to a complete stop. The chipper disc/drum will coast for several minutes after the engine is shut down. Always wait at least several minutes.

DO NOT operate this machine without the Hood Pin in place. Do not operate the machine with any type of makeshift hood pin or an improperly installed hood pin! The Hood Pin MUST be padlocked.

DO NOT operate the machine with the chipper hood open under any circumstances.

DANGER

The patented "Last Chance Stop" is a means of stopping/reversing the feedwheels if a negligent operator does not follow the safety rules and finds themselves in trouble! DO NOT RELY ON THE "LAST CHANCE STOP" TO DISOBEY THE OPERATOR RULES! The "Last Chance Stop" does nothing for the foolish operator who kicks into the infeed hopper area.

With engine shut off and all moving parts stopped, DAILY pull last chance cables to ensure they freely disengage and reverse feed wheel hydraulic valve.

Bandit

SAFETY PROCEDURES

⚠ WARNING

The machine was built with a chipper hood engine disable plug which disables the engine if it is not installed properly with the hood pin holding the chipper hood in the closed position. Correctly installed and maintained, the engine will not start or it will shut off if the chipper hood engine disable plug is disconnected. The chipper hood must **NEVER** be opened, or pushed closed if the chipper disc/drum is turning.

⚠ DANGER

DO NOT slam the chipper hood to the open position. This will cause damage to the hinge. If your hinge has become damaged by slamming the hood to the open position, Replace The Hinge Immediately! If the hinge has become damaged it will cause misalignment of the hood, the chipper disc/drum may then hit the hood and cause a serious accident! Lubricate the hood hinge daily.

⚠ DANGER

Never turn the chipper disc/drum by hand, always carefully use a pry bar or wood bar. This will help prevent the person turning the disc/drum from being injured should the disc/drum break loose.

A sight hole in the chipper beltshield has been provided. If chipper belts are moving do not open chipper hood. Do not stick fingers in sight hole.

⚠ DANGER

Do not work inside the mouth of the chipper or around the feedwheel(s), until you have installed the yoke lock pin completely and securely to help keep the top feedwheel in the raised position. Remove top wheel springs if equipped, block and chain top wheel up before doing any work inside throat.

⚠ WARNING

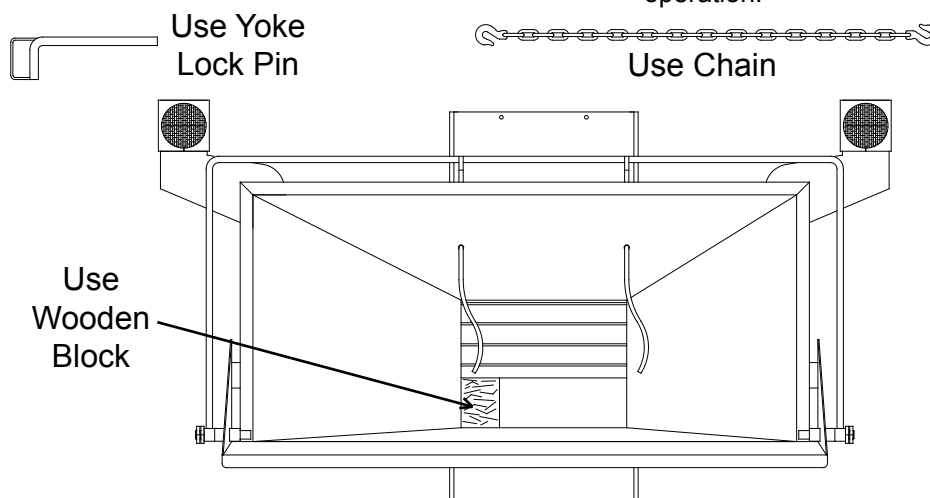
DO NOT operate this machine unless all hydraulic control devices operate properly. They must function, shift and position smoothly and accurately at all times. Faulty controls can cause personal injury!

⚠ DANGER

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 chipper disc/drum turning. This will have to be repeated until the chipper disc/drum 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.



SAFETY PROCEDURES

⚠ DANGER

Before using the top feedwheel jack, if equipped, remove the yoke springs. Install the disc/drum lock pin in the mount tube before using hand jack to raise top feedwheel. The hand jack is only provided as a means of lifting the top feedwheel, not holding it up for service.

⚠ DANGER

Always block the tires and the machine tongue whenever the machine is unhooked for operation. DO NOT rely on the tongue jack for operational stabilization.

⚠ WARNING

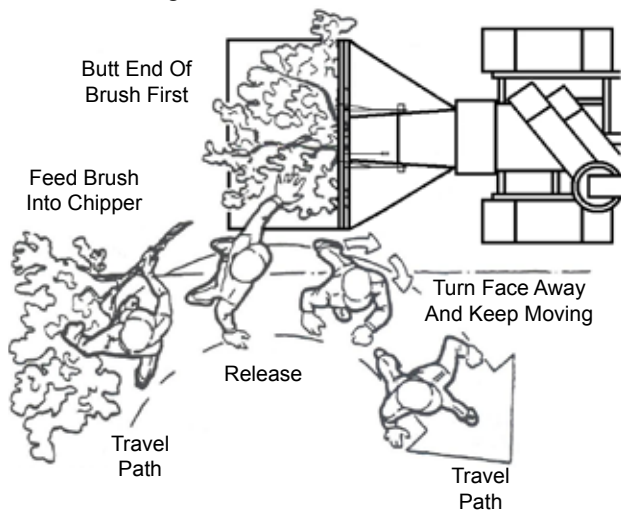
Always stand to the side of the infeed hopper when inserting material. This will allow you to turn away from the wood, and walk away, without passing through the material. Machines should be fed from curbside (right side) whenever possible. Anytime an operator is near the infeed hopper, they must be within easy reach of feed control devices.

To increase production, don't waste time watching the material being fed. Once the limbs have started into the machine, you can walk away and get more material.

Keep the feedwheel tension springs adjusted only tight enough to keep the feedwheel teeth from slipping on the material. DO NOT OVERTIGHTEN! This will overwork the hydraulic system, and make it difficult to feed larger material.

Always start the larger end (base end) of the log, tree or branch into the feedwheel(s) first.

Keep the engine R.P.M.'s at full throttle whether you are chipping brush or round wood. Lower R.P.M.'s will cause weak throwing power, and can cause plugging in the discharge.



NOTICE

Tongue jacks or optional rear stabilizers, whether hydraulic or manually operated are designed to stabilize the machine. The tongue jack or rear stabilizers are not designed to hold the machine off the ground at any time. Install secure blocking and / or chocking as needed. Before transporting the machine, insure the tongue jack and rear stabilizers are fully retracted and secured to the transport position.

⚠ DANGER

The knives must be securely fastened and torqued in position. If one comes loose or breaks during operation, someone or something may get injured.

⚠ DANGER

Chipper knives are sharp and can be dangerous. It is always necessary for your protection to be extra careful and wear proper hand protection when handling knives.

⚠ 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

Before you begin to transport your trailerized machine follow all of the transportation procedures on pages 39-40. Make sure that the tongue has been raised to the proper height and attach the machine securely to the towing vehicle. Once secured to vehicle, locate tongue jack and secure it in the transport position. Always hook safety chains to vehicle by crossing them under the tongue allowing enough slack to avoid binding or dragging the ground when making turns. Check brakes and highway lights make sure that they are all operating properly. Check that the plug terminal functions match the towing vehicle for proper operation. Make sure that the discharge chute is in the transport position pointed over the tongue of machine and the transport bolt is securely in its place. Be sure to check tire pressure before you begin to transport the machine. Close the folding pan, if equipped for the infeed hopper and make sure spring latches are locked into place. If machine is equipped with a vise, make sure to secure in place and clamp jaws closed. Close and secure any of the following, if equipped: tool box, battery box, engine cowl doors and side panels, radiator debris screens, inspection doors, cabinet doors, housing covers, tank caps and covers, etc.

Bandit

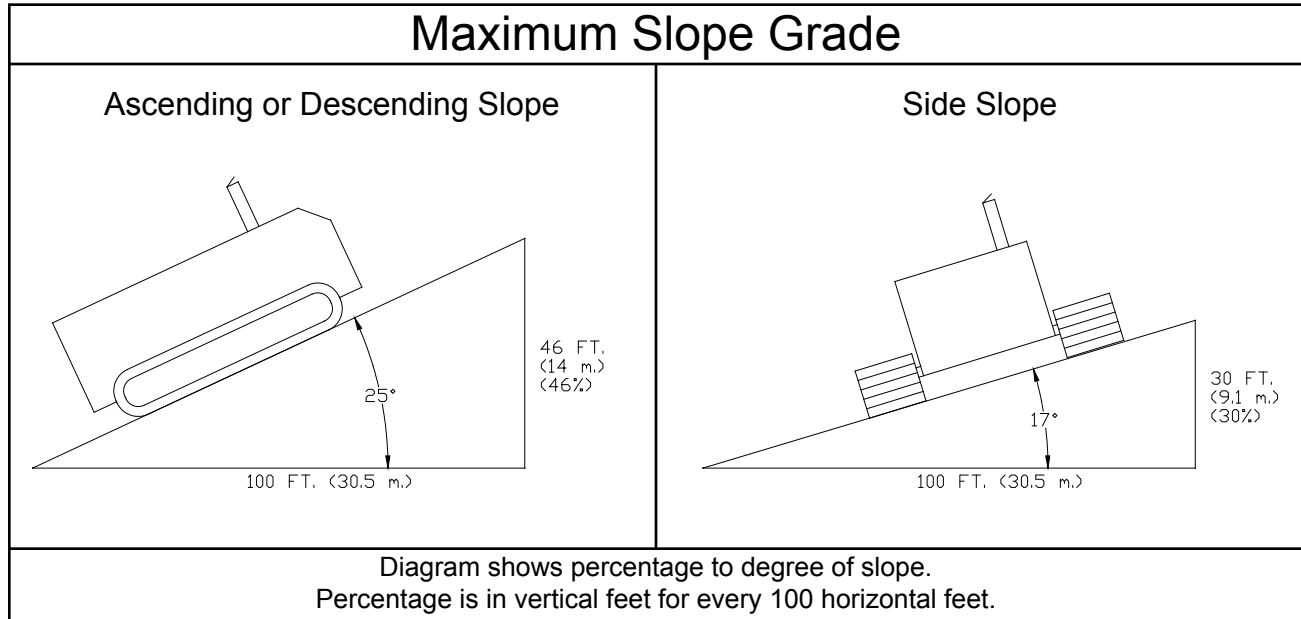
SAFETY PROCEDURES

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 hydraulics, self propelled undercarriage, and engine are running at maximum performance and good traction is sustained.



⚠ 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

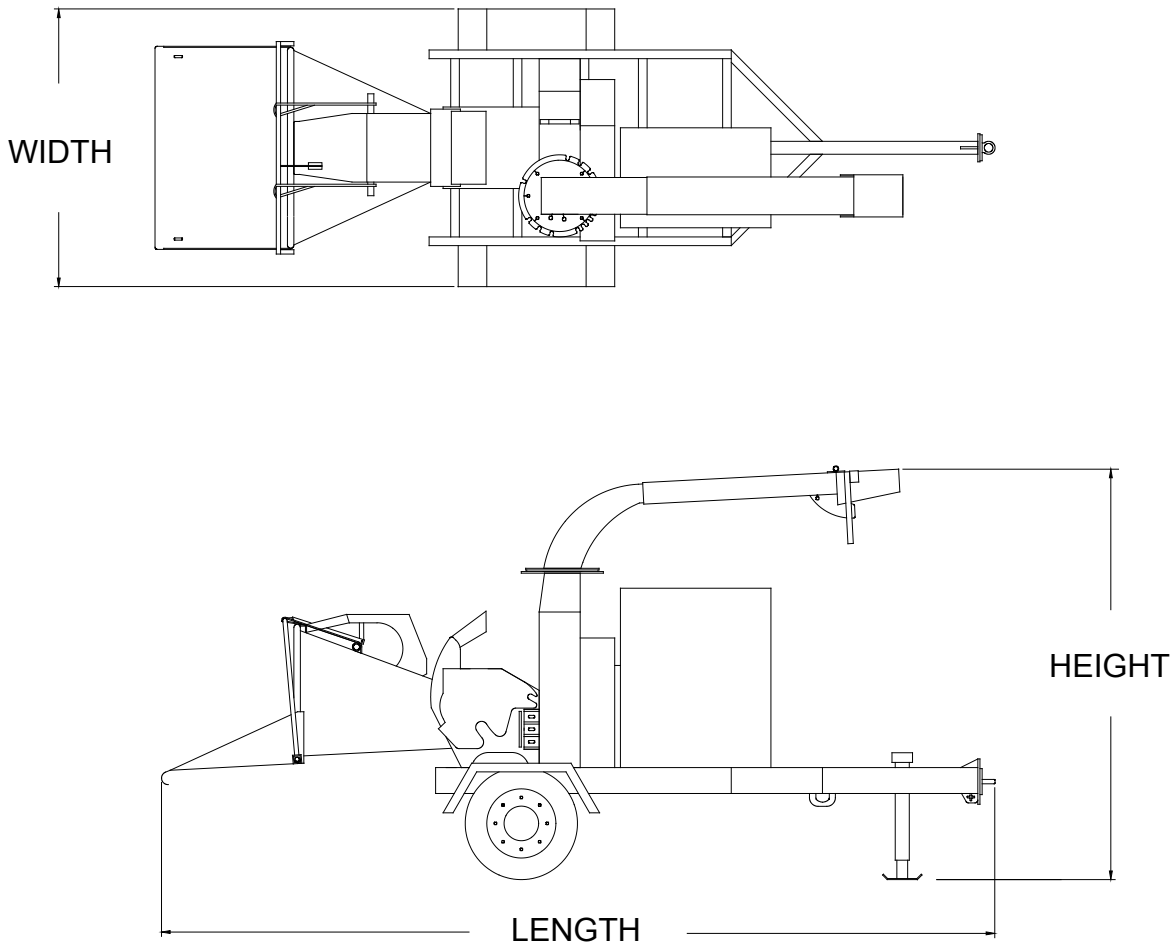
Use **EXTREME CAUTION** when traveling over non-level surface! This machine can tip over or tip backwards on non-level surface. You will cause engine damage, machine damage and possible personal injury!

⚠ DANGER

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

Bandit

EQUIPMENT SPECIFICATIONS



Approximate Dimensions & Weights

(Dimensions & weights will vary depending on optional equipment)

Approx.	Model 65:	1900 to 2600 lbs. (862 to 1179 kg)
Weight:	Model 65 Chip Box:	6700 to 7200 lbs. (3039 to 3266 kg) (Not Shown)
	Model 95:	3800 to 4800 lbs. (1724 to 2177 kg)
	Model 95 Chip Box:	7000 to 7400 lbs. (3175 to 3357 kg) (Not Shown)

(Approximate weights depending on engine and equipment options.)

Overall	Model 65:	Height: 7' 6" (2.3m),	Length: 12' 10" (3.9m),	Width: 5' 7" (1.7m)
Dimension:	Model 65 Chip Box:	Height: 8' 8" (2.6m),	Length: 21' 2" (6.5m),	Width: 6' 6" (2m)(Not Shown)
	Model 95:	Height: 8' 7" (2.6m),	Length: 16' 7" (5.1m),	Width: 6' (1.8m)
	Model 95 Chip Box:	Height: 8' 8" (2.6m),	Length: 21' 2" (6.5m),	Width: 6' 6" (2m)(Not Shown)

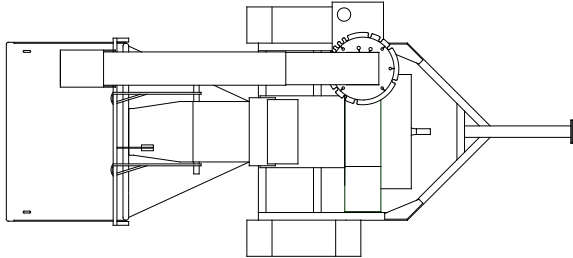
	<u>Model 65</u>	<u>Model 95</u>
Fuel Tank Capacity:	8 Gallons (30 Liters)	24 1/2 Gallons (109 Liters)
Hydraulic Tank Capacity:	7 Gallons (26 Liters)	7 Gallons (26 Liters)

(Approximate dimension depending on equipment options.)

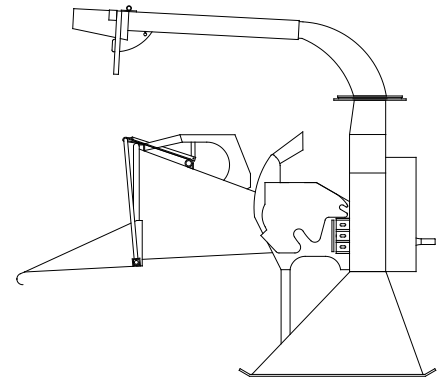
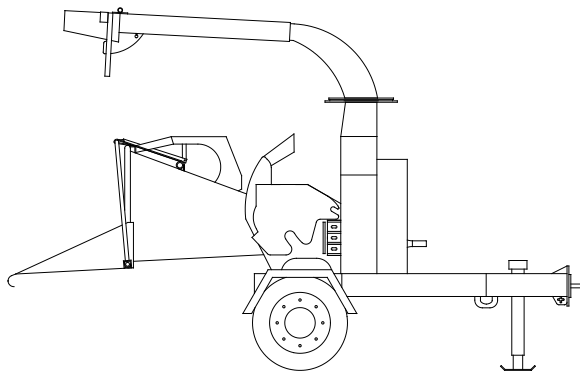
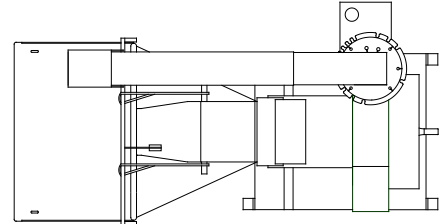
Bandit

EQUIPMENT SPECIFICATIONS

TRAILERIZED



3-POINT



Approximate Dimensions & Weights

(Dimensions & weights will vary depending on optional equipment)

Approx.	Model 65 PTO 3-POINT:	1550 lbs. (703 kg)
Weight:	Model 65 PTO TRAILERIZED:	1900 lbs. (862 kg)
	Model 95 PTO 3-POINT:	2200 lbs. (998 kg)
	Model 95 PTO TRAILERIZED:	2600 lbs. (1179 kg)

(Approximate weights depending on engine and equipment options.)

Overall Dimension:	Model 65 PTO 3-POINT:	Height: 7' 6" (2.3m),	Length: 8' 7" (2.6m),	Width: 4' 6" (1.4m)
	Model 65 PTO TRAILERIZED:	Height: 7' 7" (2.3m),	Length: 10' 4" (3.1m),	Width: 4' 6" (1.4m)
	Model 95 PTO 3-POINT:	Height: 8' 9" (2.7m),	Length: 12' 10" (3.9m),	Width: 5' 7" (1.7m)
	Model 95 PTO TRAILERIZED:	Height: 8' 7" (2.6m),	Length: 16' 10" (5.1m),	Width: 5' 7" (1.7m)

Hydraulic Tank Capacity:	<u>Model 65 PTO</u>	<u>Model 95 PTO</u>
	6 Gallons (23 Liters)	8 Gallons (30 Liters)

(Approximate dimension depending on equipment options.)

Bandit

DECALS

⚠ WARNING

 **WEAR EYE & PERSONAL PROTECTION EQUIPMENT**

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

⚠ DANGER

 **DO NOT** feed vine-like material into this machine unless you follow the rules:

DO NOT allow vine-like material to lay in front of infeed hopper!

DO NOT allow vine-like material to trip or entangle with you or your clothing. Can cause severe injury!

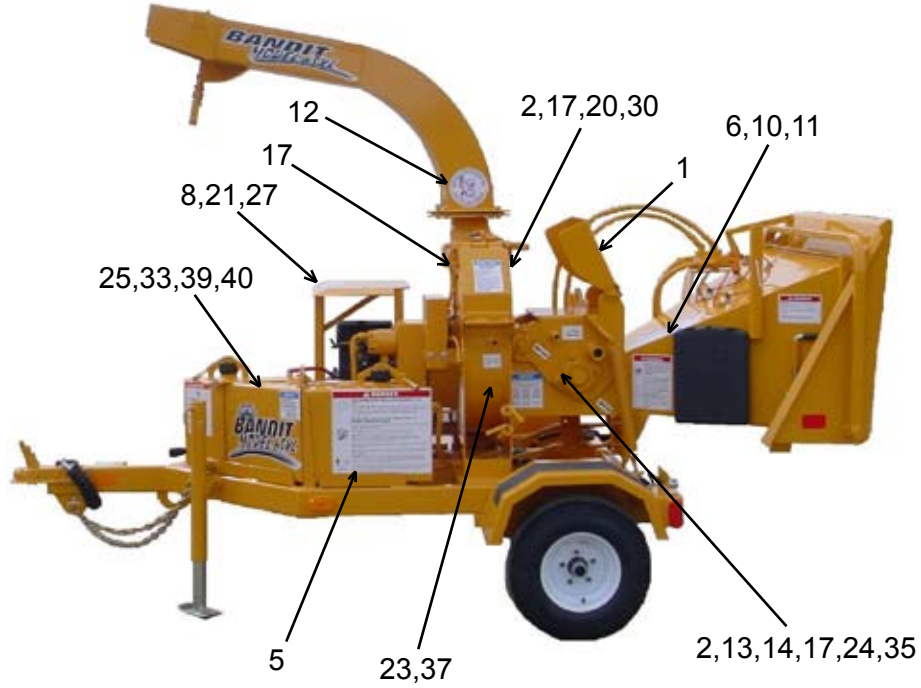
MUST cut vine-like material into 4 to 5 foot pieces!

MUST stop the chipper feed system and feed the shortened pieces with the wooden push paddle only!

MUST always be positioned and prepared to activate feed control handle!

DECAL LOCATIONS - MODEL 65

Decal locations may vary, these are general locations.



DECAL LOCATIONS - MODEL 65

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

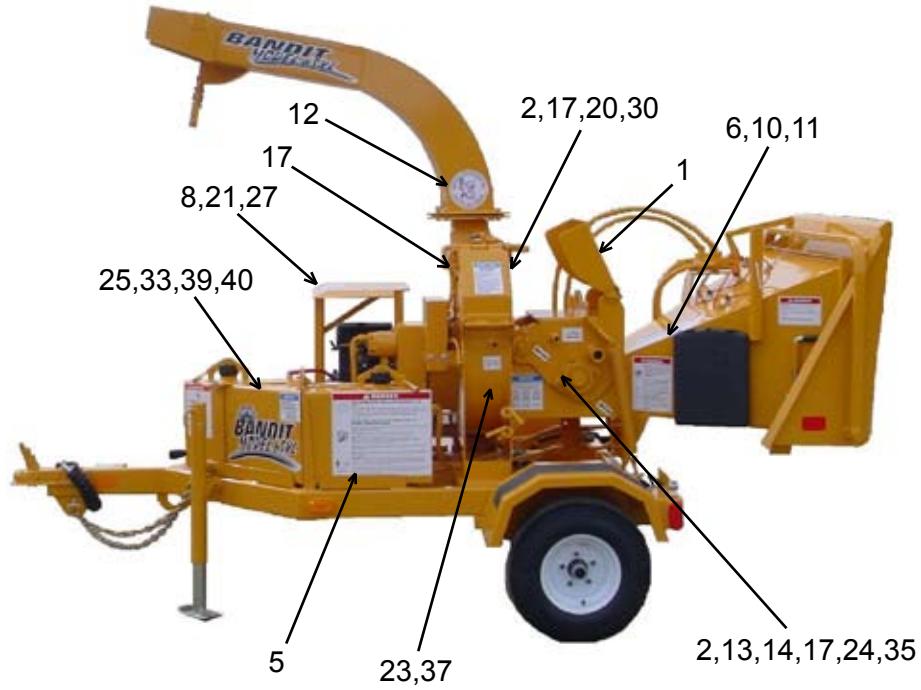
LOCATION	NUMBER	DESCRIPTION
1.	SPD-01	Avoid Injury Or Death...
2.	SPD-02	Moving Parts...
3.	SPD-03	Lockout All Energy Sources...
4.	SPD-04	Flying Discharge Material...
5.	SPD-07	Last Chance Stop Cables...
6.	SPD-09	Do Not Work Under Top Feed...
7.	SPD-12	Do Not Feed Vine-Like...
8.	SPD-13	Must Remove Ignition Key...
9.	SPD-28	Do Not Insert Fingers
10.	SPD-30	Do Not Sit, Stand, Lay, Climb...
11.	SPD-34	Brush Chippers Are Very Dangerous...
12.	ID-42	Bandit Industries Inc...USA
13.	INST-02	Yoke Lock Hole
14.	INST-03	Yoke Lock Bar
15.	INST-04	Arrow
16.	INST-11	Motor Coupler Guard...
17.	INST-12	Grease Daily (Arrow)
18.	SPINST-13	Push To Reverse
19.	INST-16	Grease Weekly Arrow
20.	INST-39	Oil Daily Arrow
21.	INST-44	California Proposition 65
22.	INST-46	Autofeed Basic Info...
23.	INST-48	Disc/Drum Lock Tube
24.	INST-49	Disc/Drum Lock Pin
25.	INST-53	Hydraulic Oil...Hydrex XV...
26.	INST-95	Electric Plug-In Schematic
27.	INST-101	Canada Engine Decal
28.	INST-109	Basic Maintenance Check List
29.	INST-130	Push To Start

NOTICE

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

DECAL LOCATIONS - MODEL 65

Decal locations may vary, these are general locations.



DECAL LOCATIONS - MODEL 65

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

LOCATION	NUMBER	DESCRIPTION
30.	N-02	Maintain Lubrication...
31.	N-03	Service Required Under Beltshield...
32.	N-05	Frequently Adjust...PTO...
33.	SPN-06	Decal Maintenance...
34.	N-07	Clutch Operation...
35.	N-08	Patents...
36.	N-09	Adjustable Feed Speed...
37.	SPN-11	Correct Knife And Hardware...
38.	SPW-01	Do Not Go Near Oil Leaks...
39.	SPW-02	Diesel Fuel Only...
40.	SPW-03	Gasoline Fuel Only...
41.	SPW-04	Frozen Battery Can Explode...
42.	SPW-08	Wear Personal Protection...
43.	900-8900-30	Basic Safety Decal Kit (Options may require additional decals)
44.	900-8900-12	Bandit Model 65 Logo Decal Kit

Additional Decals for Machine Equipped With A Chip Box - Consult dealer or manufacturer for general locations.

45.	SPD-47	Injured...Dump Box
46.	INST-29	Chip Box Lift Up / Down
47.	INST-30	Selector Chip Box / Feed

Additional Decals for Machine Equipped With A Track Undercarriage - Consult dealer or manufacturer for general locations.

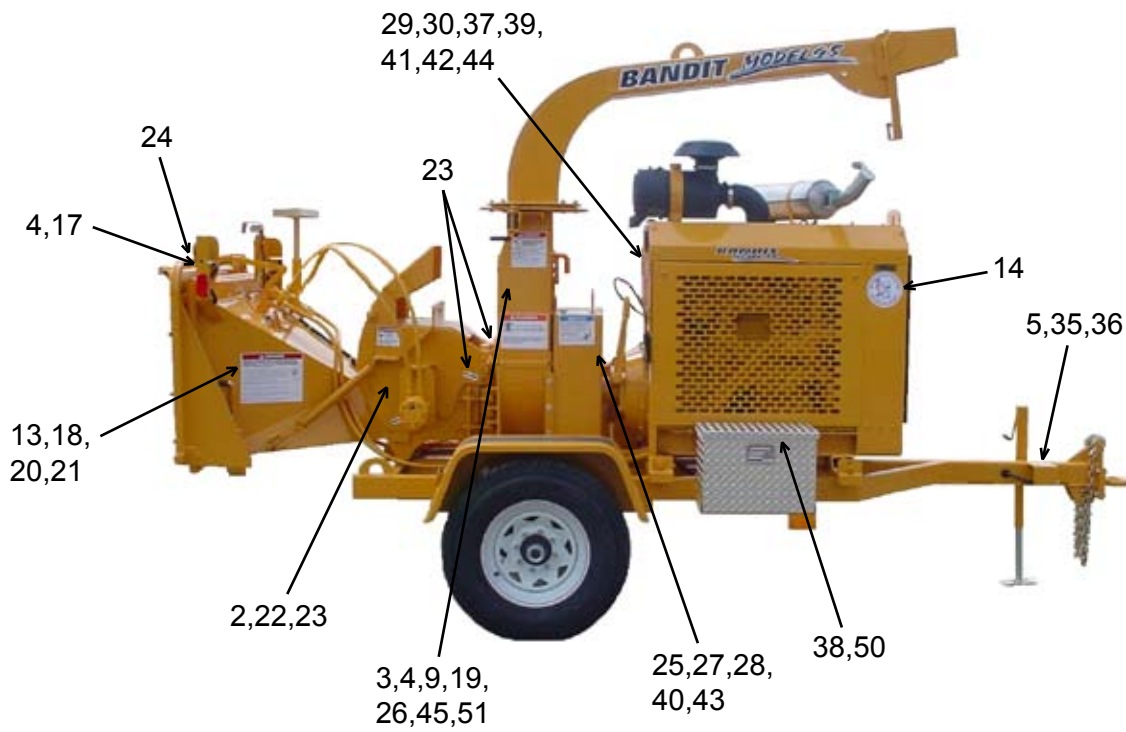
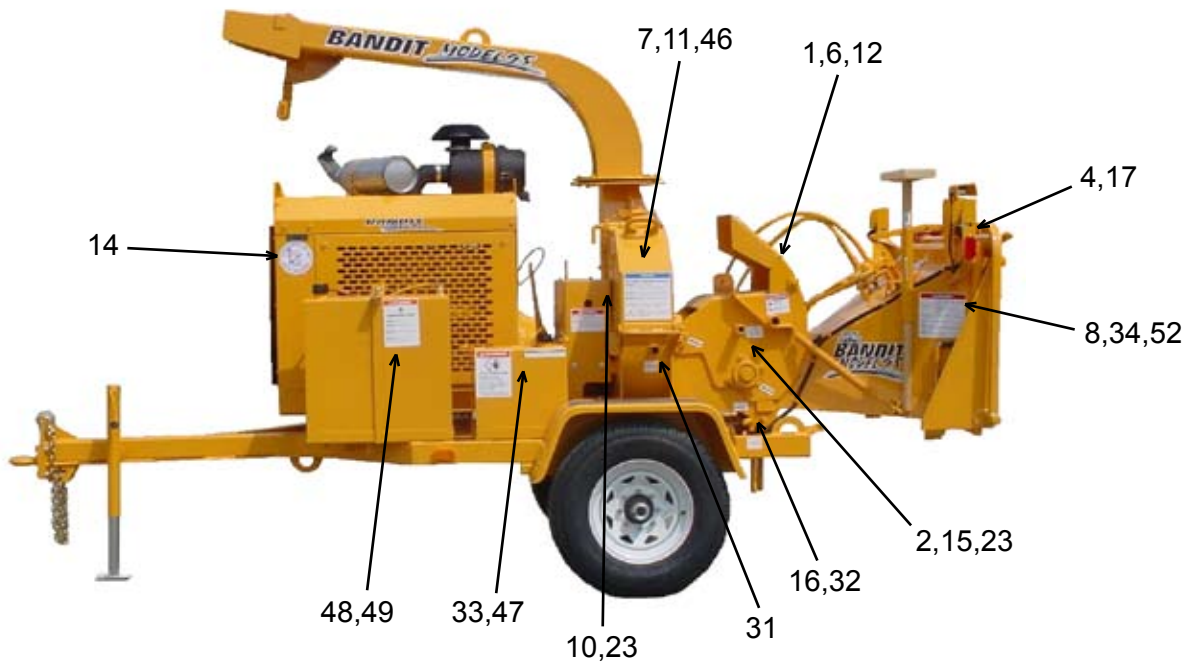
48.	SPD-19	...Minimum 10 Feet Away From Tracks...
49.	SPD-38	Do Not Entangle Feet...
50.	INST-135	Remote Starting Procedure
51.	INST-137	Remote / Tether
52.	SPW-06	Do Not Attempt...Slope Of More Than...
53.	SPW-07	Do Not Move Machine...Horn Is Blown...
54.	SPW-11	Do Not Leave Unit Parked On A Slope...

NOTICE

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

DECAL LOCATIONS - MODEL 95

Decal locations may vary, these are general locations.



DECAL LOCATIONS - MODEL 95

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

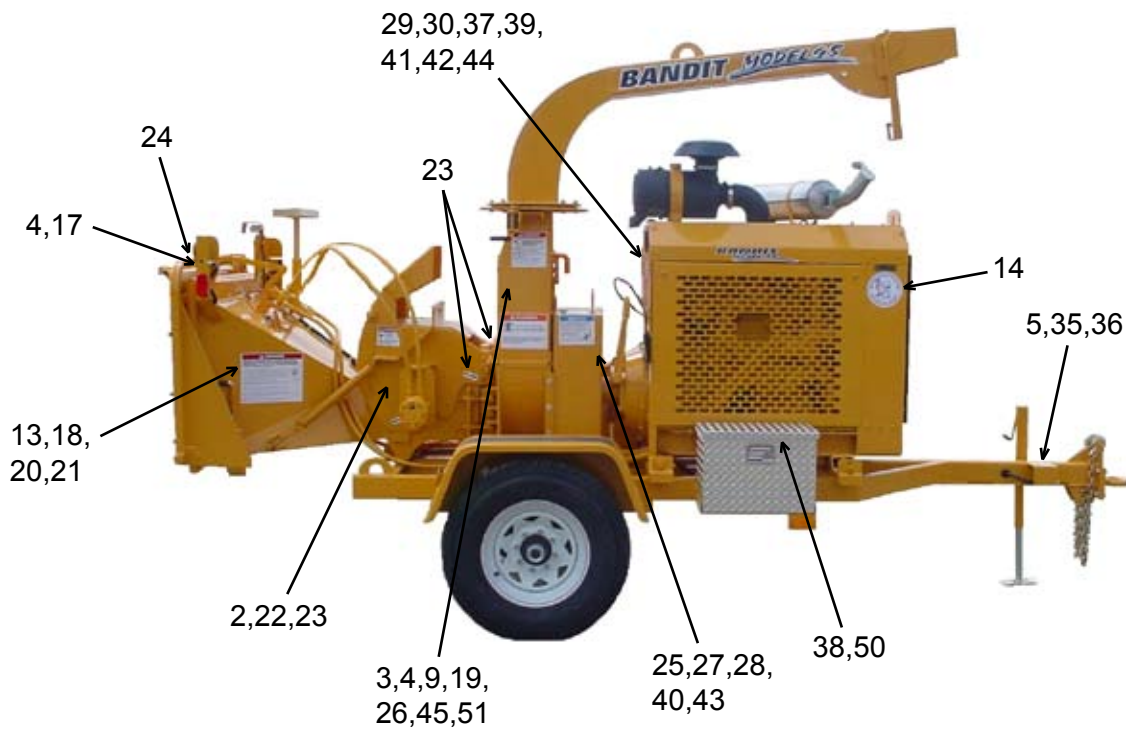
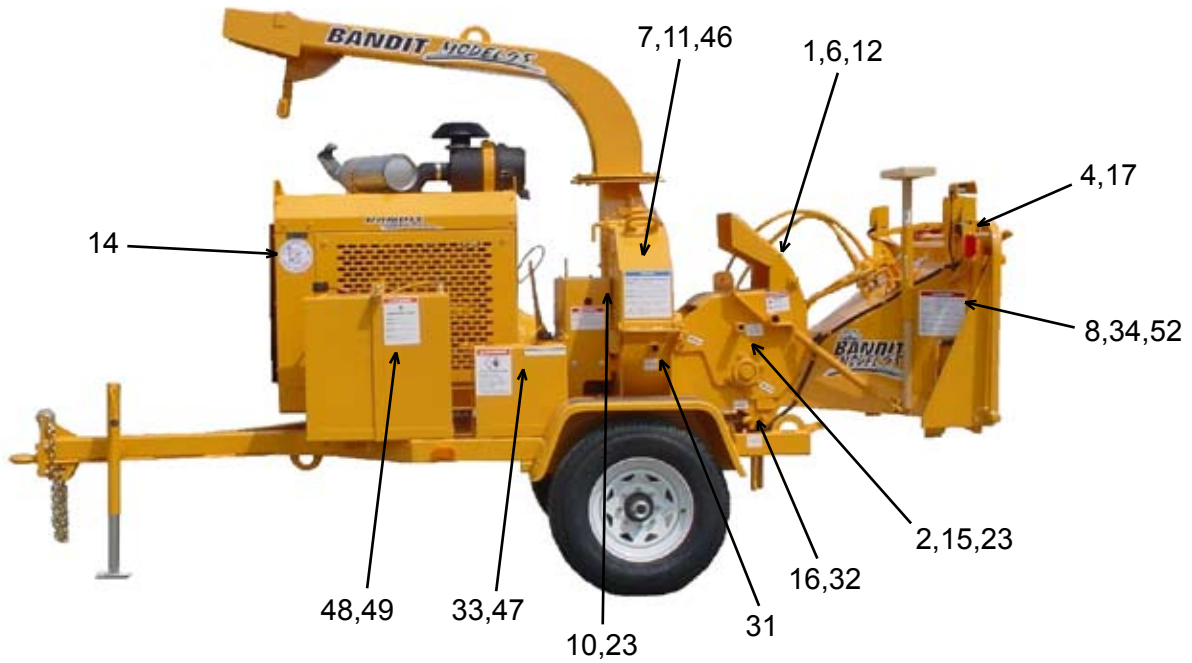
LOCATION	NUMBER	DESCRIPTION
1.	SPD-01	Avoid Injury Or Death...
2.	SPD-02	Moving Parts...
3.	SPD-03	Lockout All Energy Sources...
4.	SPD-04	Flying Discharge Material...
5.	SPD-05	Log Splitter...
6.	SPD-07	Last Chance Stop Cables...
7.	SPD-09	Do Not Work Under Top Feed...
8.	SPD-12	Do Not Feed Vine-Like...
9.	SPD-13	Must Remove Ignition Key...
10.	SPD-28	Do Not Insert Fingers
11.	SPD-30	Do Not Sit, Stand, Lay, Climb...
12.	SPD-33	Do Not Work Under...
13.	SPD-34	Brush Chippers Are Very Dangerous...
14.	ID-42	Bandit Industries Inc...USA
15.	INST-02	Yoke Lock Hole
16.	INST-03	Yoke Lock Bar
17.	INST-04	Arrow
18.	INST-05	Yoke Lift Up / Down
19.	INST-07	Discharge Swivel Right / Left
20.	INST-08	Winch Control Out / In
21.	INST-09	Selector Winch / Feed
22.	INST-11	Motor Coupler Guard...
23.	INST-12	Grease Daily (Arrow)
24.	SPINST-13	Push To Reverse
25.	INST-14	Articulating Tongue Out / In
26.	INST-15	Flipper Down / Up
27.	INST-16	Grease Weekly Arrow
28.	INST-39	Oil Daily Arrow
29.	INST-44	California Proposition 65
30.	INST-46	Autofeed Basic Info...
31.	INST-48	Disc/Drum Lock Tube
32.	INST-49	Disc/Drum Lock Pin
33.	INST-53	Hydraulic Oil...Hydrex XV...
34.	INST-76	Yoke Lift Down / Up
35.	INST-90	Tongue Up / Down
36.	INST-95	Electric Plug-In Schematic
37.	INST-101	Canada Engine Decal
38.	INST-109	Basic Maintenance Check List

NOTICE

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

DECAL LOCATIONS - MODEL 95

Decal locations may vary, these are general locations.



DECAL LOCATIONS - MODEL 95

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

LOCATION	NUMBER	DESCRIPTION
39.	N-02	Maintain Lubrication...
40.	N-03	Service Required Under Beltshield...
41.	N-05	Frequently Adjust...PTO...
42.	SPN-06	Decal Maintenance...
43.	N-07	Clutch Operation...
44.	N-08	Patents...
45.	N-09	Adjustable Feed Speed...
46.	SPN-11	Correct Knife And Hardware...
47.	SPW-01	Do Not Go Near Oil Leaks...
48.	SPW-02	Diesel Fuel Only...
49.	SPW-03	Gasoline Fuel Only...
50.	SPW-04	Frozen Battery Can Explode...
51.	SPW-08	Wear Personal Protection...
52.	SPW-10	Hydraulic Winch...
53.	900-8900-30	Basic Safety Decal Kit (Options may require additional decals)
54.	900-8900-14	Bandit Model 95 Logo Decal Kit

Additional Decals for Machine Equipped With A Chip Box - Consult dealer or manufacturer for general locations.

55.	SPD-47	Injured...Dump Box
56.	INST-29	Chip Box Lift Up / Down
57.	INST-30	Selector Chip Box / Feed

Additional Decals for Machine Equipped With A Track Undercarriage - Consult dealer or manufacturer for general locations.

58.	SPD-19	...Minimum 10 Feet Away From Tracks...
59.	SPD-38	Do Not Entangle Feet...
60.	INST-125	Selector Winch / Feed
61.	INST-126	Winch Out / In
62.	INST-127	Selector Winch / Track
63.	INST-135	Remote Starting Procedure
64.	INST-137	Remote / Tether
65.	SPW-06	Do Not Attempt...Slope Of More Than...
66.	SPW-07	Do Not Move Machine...Horn Is Blown...
67.	SPW-11	Do Not Leave Unit Parked On A Slope...

NOTICE

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

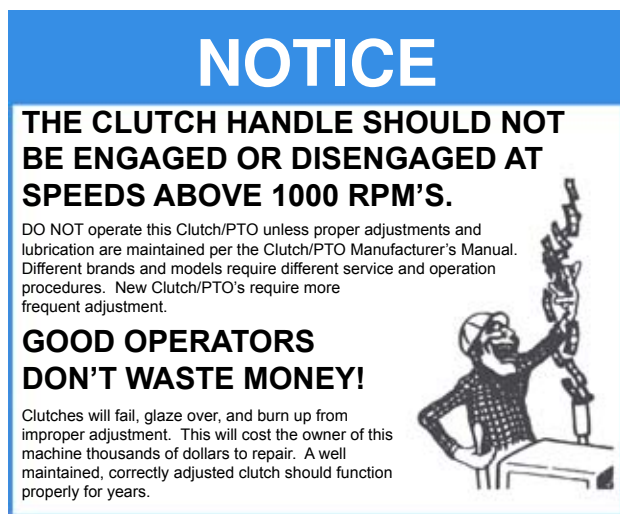
DECALS

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) Combination English / Spanish decals are typically standard. Other foreign language decals are available and may be purchased. Mail translated decals required to Bandit Industries, Inc.

EXAMPLES:



! DANGER

**AVOID INJURY OR DEATH!
DO NOT OPERATE THIS MACHINE UNLESS:**



- Only properly and fully trained people are used.
 - Wearing clothing and personal protective equipment per ANSI Z133 and OSHA 29-1910 standards.
 - Constantly prepared and positioned to activate the control and shut down devices.
 - All guards and covers are secure and in place.
 - Only factory approved pins, guards and replacement parts are used.
 - All safety devices and controls are operational.
 - Never allow hand, foot or body part to enter infeed area, conveyors or guards during operation or while running.
 - All decals are legible, in place and operator thoroughly understands them.
 - Never open guards, covers or inspection doors while disc/drum is turning or engine is running.
- Follow all safety and operational instructions per manuals decals, video, ANSI Z133 and OSHA 29-1910 standards.

! WARNING

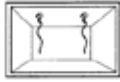


DO NOT GO NEAR LEAKS!

- Pressured oil easily punctures skin causing injury, gangrene or death.
- Seek immediate medical care.
- Do not use finger or skin to check for leaks.
- Remove hydraulic pressure or load before loosening fittings.

! DANGER


LAST CHANCE STOP CABLES FOR EMERGENCY USE ONLY!




Any Contact with infeed rollers will cause serious injury or death. The "Last Chance Stop" is a means of stopping/reversing the feed rollers if a negligent operator doesn't follow the safety rules and finds themselves in trouble!

DO NOT RELY ON THE "LAST CHANCE STOP" TO DISOBEY OPERATOR RULES!!

"Reaching in" is usually associated with trying to hand feed small wood debris into the feed rollers.



DO NOT reach or kick into infeed hopper for any reason!
DO NOT hand feed small wood debris into feed rollers!
DO feed small wood debris with wooden push paddle, or throw material on top of big wood as it feeds!
DO always be positioned and prepared to activate forward-off-reverse control bar!
DO always follow operation and safety instructions! (ANSI, OSHA and manufacturer)
DO NOT operate this machine unless you have read the operators manual, read decals, watched video tape and have been thoroughly trained for safe operating procedures!




DO NOT REACH IN!

The "Last Chance Stop" does nothing for the foolish operator that kicks material into the infeed hopper. This can cause loss of foot, leg or death. Don't kick into infeed!

! DANGER

BRUSH CHIPPERS ARE VERY DANGEROUS MACHINES TO OPERATE! READ & BELIEVE THIS WARNING DECAL!

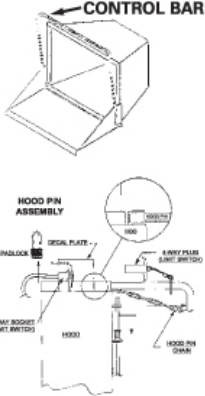
The chipper feedrolls are VERY DANGEROUS. They are designed to pull large diameter trees of any length into the chipper. Pulling your hand, arm, foot or entire body through the machine is much easier than pulling a tree. FOLLOW the operating instructions in the operator's manual, and ALWAYS be in a position to activate the *Forward-Off-Reverse Control Bar*. NEVER take chances pushing wood too far into the infeed hopper of the chipper. NEVER use your feet to try to kick wood into the machine. There have been ACCIDENTS involving the feed rolls, resulting in the amputation of hands, arms, feet, legs and DEATH. DO NOT let this happen to you!



DO NOT open the chipper hood without letting the chipper disc come to a complete stop. THIS MEANS A COMPLETE STOP - NOT ALMOST! WAIT at least 3 minutes before disengaging the hood lock pin.

NEVER operate the chipper without the hood lock pin SECURELY installed and the hood lock pin padlock LOCKED. Failure to do this will allow the chipper hood to slam to the open position and possibly injure someone.

There have been ACCIDENTS, all of them were SERIOUS INJURIES or DEATH involved with chipper hoods flying open and hitting someone. In ALL of the cases the hood lock pin was NOT INSTALLED PROPERLY. DO NOT operate this chipper if the hood lock pin is not LOCKED INTO POSITION.



DO NOT OPERATE THIS MACHINE UNLESS YOU HAVE READ THE OPERATOR'S MANUAL AND HAVE BEEN TRAINED FOR SAFE OPERATING PROCEDURES!

AUTOFEED OPTIONS

AUTOFEED SYSTEM

Consult the original manufacturer's manual for your chippers
Autofeed operating and maintenance procedures

When processing material through the chipper, the feed system will automatically stop when the engine drops below a preset RPM point. The engine is constantly being monitored by an adjustable electronic speed switch. The switch can be adjusted so that at a given RPM, an electronic relay system will operate the hydraulic solenoid valves to stop the feedwheels until the engine has recovered speed. The patented "Autofeed Plus" system will reverse the feedwheels for a set period of time and then stop until the engine has recovered speed. Both autofeed systems will then automatically turn the feed on to resume forward travel.

Due to required components and equipment options a machine may have various types or brands of autofeed systems. Each chipper is shipped with the original manufacturer's manual for the autofeed system it is equipped with.

For the approximate autofeed settings on all optional autofeed systems refer to page 30 of the chipper manual. For part numbers on the hydraulic portion of the autofeed systems refer to pages 114 & 115 of the chipper manual.

Do not power wash the digital tach hour meters. Pressure causes unwarranted damage. **Do not spray tach, this will void warranty.**

PART NUMBERS FOR AUTOFEED DIGITAL TACH HOUR METERS

IEC (formerly ESI Intelli-Feed)
 Part Number: 900-2908-11
 For Service Call
 1-815-985-0383



Electronic Solutions
 Part Number: 900-2904-85
 For Service Call
 1-866-736-6839



No longer used.

L.O.R. MFG.
 Part Number: 900-2906-82L
 For Service Call
 1-866-644-8622



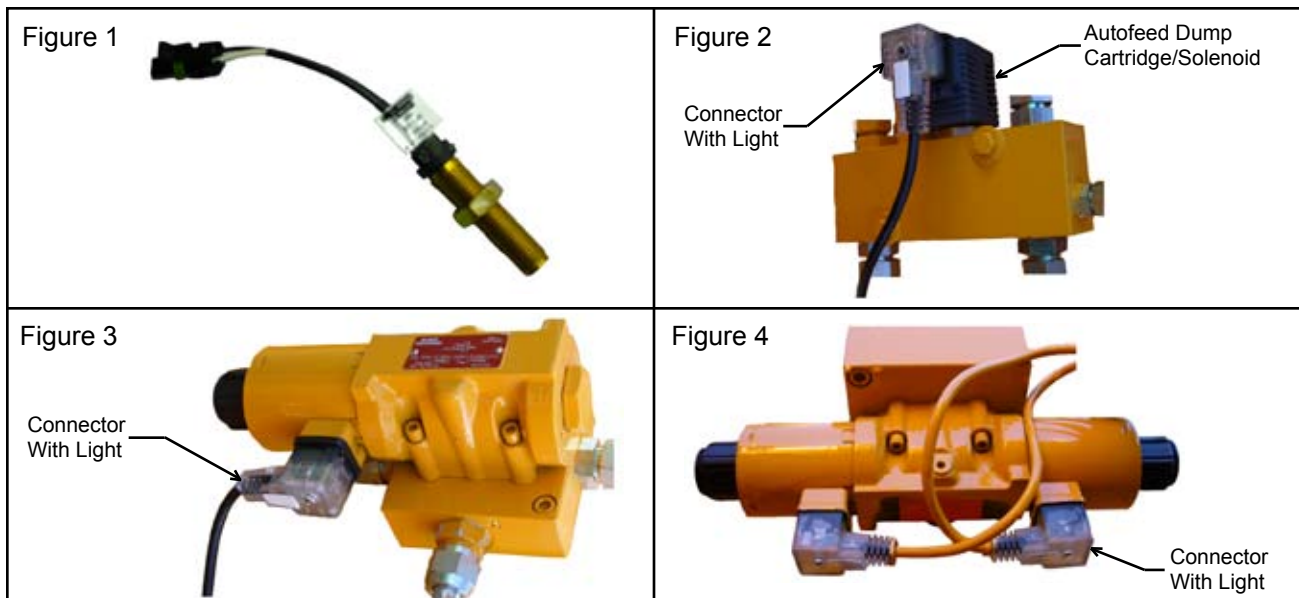
Miratron Inc.
 Part Number: 900-2910-68
 For Service Call
 1-866-285-0132



No longer used.

AUTOFEED TERMINOLOGY

- PPR** Pulses per revolution. On magnetic pick-up machines, this setting will be the number of teeth on the gear or sprocket it is reading. On alternator pick-up machines, the setting will need to be obtained from your local dealer or Bandit Industries.
- Mag Pick-up** Magnetic pick-up, also called pick-up probe. This is normally located screwed into the flywheel housing on the engine block. It can also be found on the clutch housing or chipper shaft. See Figure 1.
- Dump Block** This block is used in most cases. It is located near the fender on the frame of the chipper. An easy way to find it is by following the hydraulic hose from the pump. The block will be the first thing it is hooked into. This block also contains the main relief. When the solenoid is activated (indicated by the light in the connector) the feedwheel(s) are stopped by the autofeed system. See Figure 2.
- Reverse Valve** Located on the infeed hopper of the chipper. It can be recognized by a valve with one solenoid bolted on a square block. The solenoid is approximately 2-1/2" (63.5mm) diameter x 2-3/4" (69.9mm) long. It will have two wires coming from it or on the newer machines it will have a connector with a light screwed to it. When the solenoid is activated (indicated by the light in the connector) the feedwheel(s) are reversed by the autofeed plus system. See Figure 3.
- Dual Coil Reverse Valve** Normally seen on bigger machines such as 280, 1850, 1890, 1990, 2090, etc. and special options. This will normally be located on the infeed hopper of the machine. It can be recognized by a valve with two solenoids bolted on a square block. The solenoid is approximately 2-1/2" (63.5mm) diameter x 2-3/4" (69.9mm) long. It will have two wires coming from it or on the newer machines it will have a connector with a light screwed to it. The feed coil must have power (indicated by the light in the connector) for the feedwheels to feed and pull material in. See Figure 4.
- Solenoid** Electronically activated to produce a magnetic pull which shifts the spool inside the hydraulic valve. Shifting of the spool changes oil flow direction from operating forward or dumping oil to tank.
- High** High or HI is the setting when the feedwheels will turn back on (feeding operation).
- Low** Low or LO is the setting when the autofeed will reverse (if equipped) the feedwheels and then turn the feedwheels off.
- Back** Amount of time in seconds the feedwheels will back the wood away from the cutter disc/drum. Normally this will be set at .3 seconds.




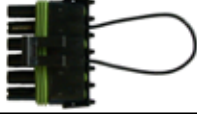
TROUBLE SHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	SOLUTION
No Display	-Gauge not getting power.	-Check continuity of Red wire to a clean power source. -Check 7.5 amp fuse. -Check connection at engine disable plug at hood pin. -Check key switch for switched power in and out.
	-Gauge not properly grounded.	-Check continuity of Black wire to ground connection.
	-Dead Battery.	-Charge or replace.
Feedwheels Do Not Stop (Autofeed Doesn't Activate)	-Loose chipper belts.	-Tighten or replace per manual specifications.
	-Clutch slipping.	-Adjust per clutch manufacturer's recommendations.
	-Sticky dump cartridge.	-Lightly tap on dump block to free up. -Take cartridge out and clean free of debris. -Replace solenoid and/or cartridge.
	-No power to dump valve solenoid.	-Check fuse on dump valve signal wire (if equipped). -Check continuity on the dump valve wire (normally green wire).
	-Faulty tach.	-Check autofeed tachometer settings.
	-Low or "LO" setting wrong.	-Check autofeed tachometer settings.
Feedwheels Do Not Re-engage	-Engine RPM not reaching HI set point on tach.	-Check for stretched or out of adjustment throttle cable. This would not let engine reach full RPM. -Check HI RPM setting on gauge to make sure it is not set too close to full RPM of engine. HI setting should be 150 to 200 RPM below full engine RPM.
	-Sticky dump cartridge.	-Lightly tap on dump block to free up. -Take cartridge out and clean free of debris. -Replace solenoid and/or cartridge.
	-System pressure.	-Check and readjust per manual specifications.
	-Faulty tach.	-Consult local dealer or Bandit Industries.
No Signal	-Engine not running.	-Normal operating condition.
	-Bad signal wire.	-Check continuity on the signal wire (white wire in autofeed harness).
	-No signal from alternator.	-Check for at least 3.5 VAC output at idle and 10-12 VAC at HI RPM.
	-No signal from mag pick-up.	-Check for approx. 2-7 VAC at idle and approx. 14-20 VAC at HI RPM. Testing must be done at the two wires coming out of mag pick-up after disconnecting. Remove and clean off magnet at end. Reinstall by turning it in until it bottoms out. Then back off approx. 1/2 a turn. Lock with jam nut.
	-Bad mag pick-up.	-Replace mag pick-up.
Gauge Jumped Program	-Low voltage to tach.	-Check engine disable plug at hood. Clean and check for tight connection. Re-install using dielectric grease.
	-Shorts in wire harness.	-Check for possible worn wires or loose connections.
	-Faulty ground.	-Check black wire for a good ground.
	-Faulty tach.	-Consult local dealer or Bandit Industries.

TROUBLE SHOOTING GUIDE cont.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Feedwheels Run In Reverse From Normal	-Backup time set wrong.	Reset backup time. Normal setting is .3 seconds.
	-Sticking reverse valve.	-Check solenoid operation. -Override cartridge manually by sticking a small allen wrench in the end of the solenoid. -Replace solenoid and/or cartridge.
	-Type settings programmed wrong.	-Reprogram or consult local dealer or Bandit Ind.

NOTE: Autofeeds with dump blocks can be unplugged and run manually. Autofeeds with dual output block will need a jumper plug. This can be a good test to determine if you problem is hydraulic or electronic.

LOR Jumper Plug Part No.: 900-2913-51		IEC Jumper Plug Part No.: 900-2914-09	
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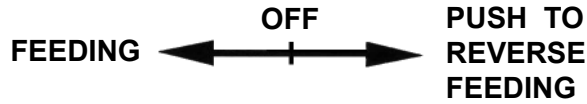
**APPROXIMATE DIGITAL AUTOFEED SETTINGS
(FOR ALL AUTO FEED SYSTEMS - REFERENCE ONLY)**

NOTE: 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	Alternator PPR	Magnetic Pick-Up PPR	Off RPM	On RPM	ALR (LOR only)	Feed Reverse Time
Briggs & Stratton (Vanguard) - 23,35Hp	3600	N/A	100	3300	2650	N/A	.3
CAT 3011C / Perkins 403C - 26.7 Hp	3400	9	96	3300	2650	N/A	.3
CAT 3013C / Perkins 103C - 33.7 Hp	2800	N/A	109	2700	2400	N/A	.3
CAT 3024C / Perkins 404C - 51.3 Hp	2800	N/A	126	2700	2400	N/A	.3
CAT 3054C / Perkins 1104C - 86 Hp	2500	N/A	126	2400	2150	50	.3
Cummins B3.3 - 65 Hp	2500	N/A	110	2400	2150	N/A	.3
Cummins B3.3 - 85 Hp	2500	N/A	127	2400	2150	N/A	.3
Deutz - 29.6-88 Hp	2800	12.5	N/A	2650	2400	50	.3
John Deere 4045 - 80 Hp	2500	N/A	30	2350	2150	N/A	.3
John Deere 5030 - 75, 84 Hp	2800	N/A	30	2650	2400	N/A	.3
Hatz 2M41LZ - 35Hp	3000	12	N/A	2700	2400	N/A	.3
Honda GX670 - 20,24 Hp	3600	3	1	3300	2650	N/A	.3
Kohler CH730S - 25,27 Hp	3400	9	1	3250	2600	N/A	.3
Kubota WG972D1 - 32.5 Hp	3600	6	N/A	3450	3100	N/A	.3
Kubota V2203 - 49.5 Hp	2800	9 or 12	N/A	2650	2400	N/A	.3
Kubota V3300 - 73,87,90 Hp	2600	12.5	N/A	2450	2200	N/A	.3
Lombardini 9LD625-2 - 26.3 Hp	2800	5	116	2650	2250	N/A	.3
Robin EH720DS - 25 Hp	3600	N/A	1	3300	2650	N/A	.3
Wisconsin W4-1770 - 35 Hp	2800	ign. coil 2	24	2650	2400	N/A	.3
Wisconsin VG4D2 - 37 Hp	2400	ign. coil 2	27	2250	2050	N/A	.3
Some Prior Engine Types							
CAT / Perkins 50 Hp - Tier 1	2800	9	N/A	2650	2400	40	.3
Ford 4 Cyl. - 70 Hp	2800	14	N/A	2650	2400	50	.3
GM 3.0L - 76 Hp	2800	19	N/A	2650	2400	N/A	.3
Wisconsin - 65 Hp	3000	ign. coil 2	N/A	2850	2650	N/A	.3

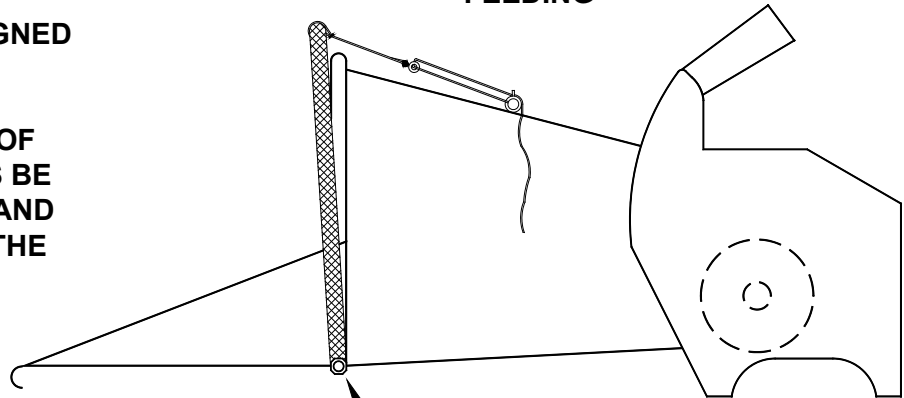
CONTROLS

CORRECT OPERATION OF FEED CONTROL HANDLE



FOR ALL CHIPPERS DESIGNED TO BE "HAND FED".

IF YOU ARE IN THE AREA OF INFEED HOPPER, ALWAYS BE PREPARED TO OPERATE AND WITHIN EASY REACH OF THE FEED CONTROL HANDLE.

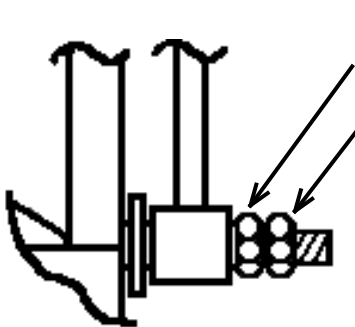


USE THE 1" JAM NUT TO ADJUST CONTROL HANDLE PIVOT TENSION.

ADJUSTING TENSION FOR CONTROL HANDLE PIVOT AND LAST CHANCE CABLE PULL.

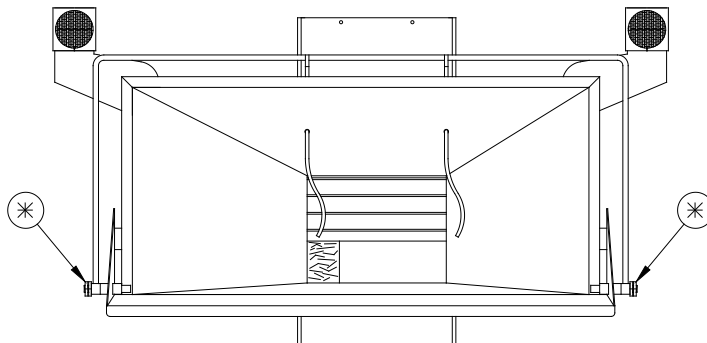
NORMAL WEAR REQUIRES PERIODICAL ADJUSTMENT OF PIVOT TENSION.

FEED CONTROL HANDLE SHOULD PIVOT WITH LITTLE EFFORT, BY HAND OR WITH A PULL ON "LAST CHANCE" CABLES. LUBRICATE PIVOT POINTS OF FEED CONTROL HANDLE WEEKLY.



ADJUST PIVOT TENSION WITH THE TIGHTNESS OF INSIDE FRICTION NUTS.

SECURE ADJUSTMENT WITH OUTSIDE JAM NUTS.



CONTROLS

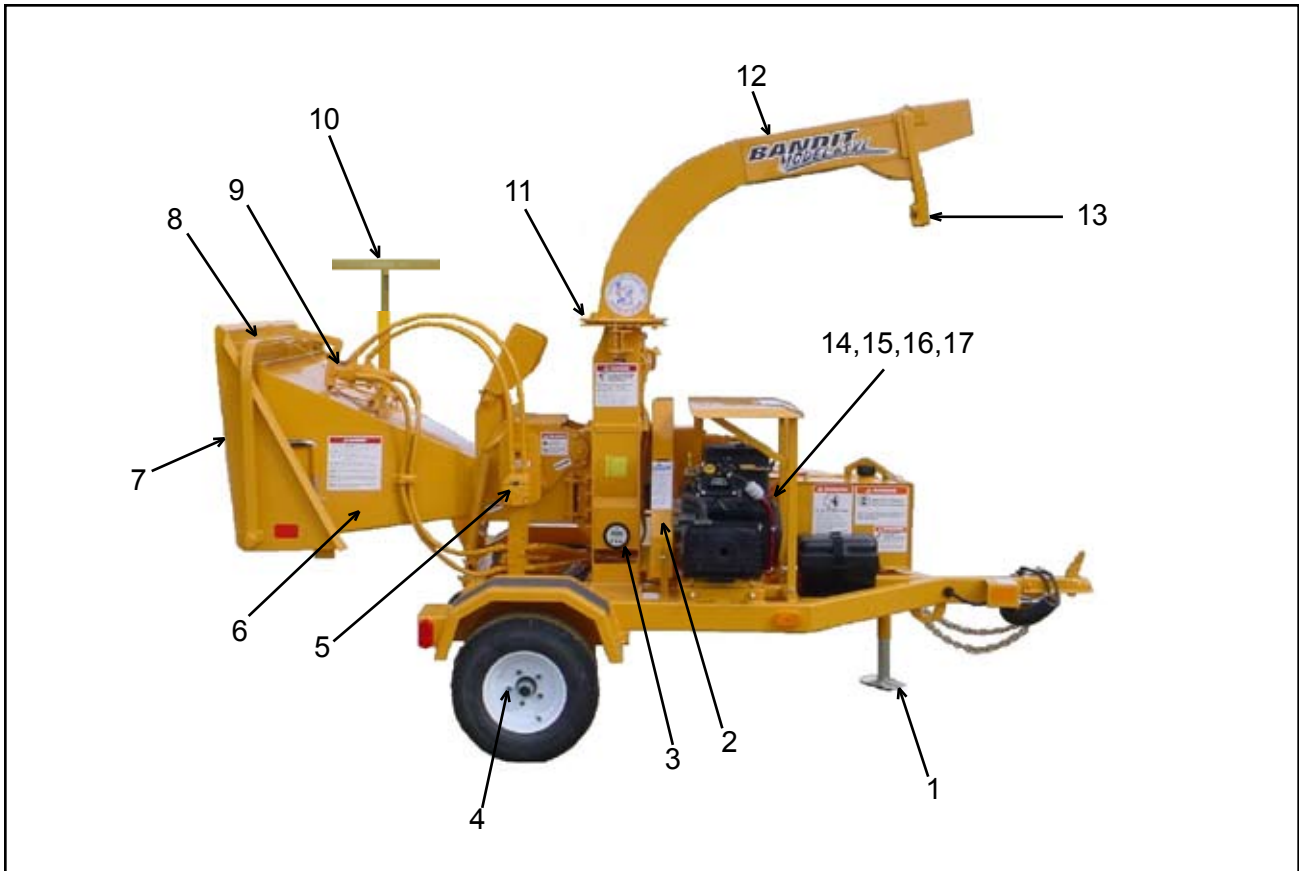
Models 65/95 Basic Location of Controls and Adjustments

LOCATION SHOWN

1. Foot Pad Jack
2. Autofeed Controls "Optional"
3. Chipper Belts / Pump Belts
4. Lug Nuts
5. Feedwheel Motor Coupler
6. Infeed Hopper
7. Folding Infeed Pan
8. Feedwheel Control Bar
9. Hydraulic Control Valves
10. Wooden Push Paddle
11. Swivel Discharge
12. Discharge Chute
13. Discharge Flipper Adjuster
14. Clutch Handle (if equipped)
15. Engine Controls, Adjusters
16. Electric Engine Throttle Adjuster (if equipped)
17. "Bandit" Lever Throttle Adjuster (if equipped)

NOT SHOWN

- Knives & Hardware
- Hydraulic Tongue Jack "95 Option"
- Hydraulic Winch Area "95 Option"
- Yoke Lift Cylinders "95 Option"
- Adjustable Height Discharge "Optional"



CONTROLS

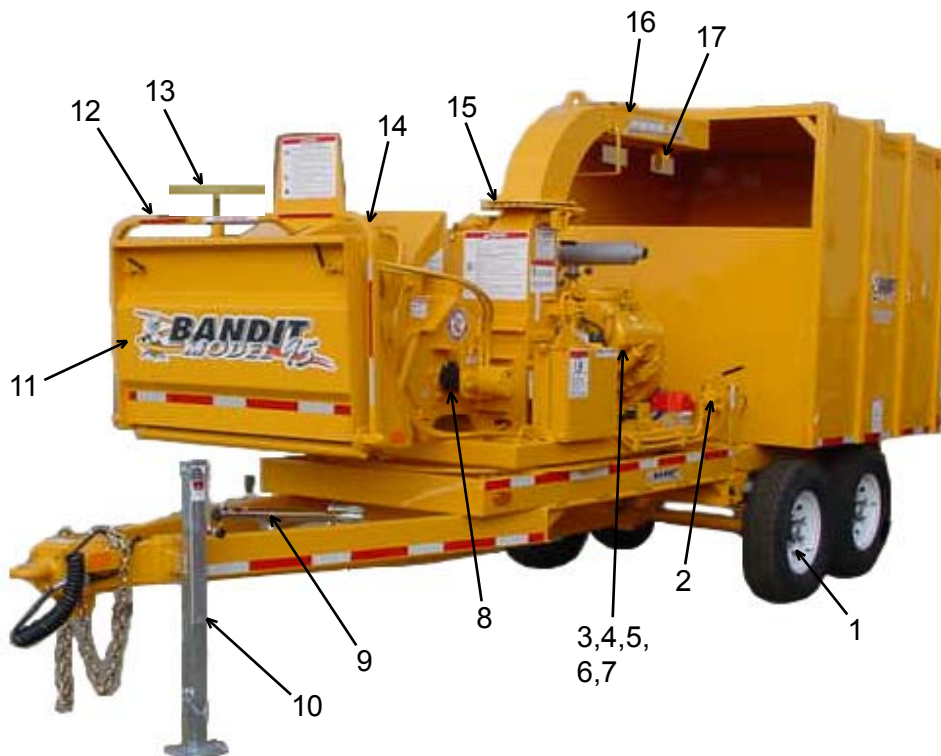
Model 65/95 Chip Box Basic Location of Controls and Adjustments

LOCATION SHOWN

1. Lug Nuts
2. Chip Box Lift Valve
3. Autofeed Controls "Optional"
4. Engine Controls, Adjusters
5. Electric Engine Throttle Adjuster (if equipped)
6. "Bandit" Lever Throttle Adjuster (if equipped)
7. Clutch Handle (if equipped)
8. Feedwheel Motor Coupler
9. Yoke Lift Jack
10. Foot Pad Jack
11. Folding Infeed Pan
12. Feedwheel Control Bar
13. Wooden Push Paddle
14. Hydraulic Control Valves
15. Swivel Discharge
16. Discharge Chute
17. Telescopic Discharge Lock Handle

NOT SHOWN

- Knives & Hardware
- Chipper Belts / Pump Belts
- Yoke Lift Cylinders "95 Option"
- Discharge Flipper Adjuster - 65
- Infeed Hopper



CONTROL OPERATING PROCEDURES

Feedwheel Control Bar:

The feedwheel control bar operates the feedwheel(s). To make the feedwheel(s) operate so they are pulling material into the machine, pull the control handle towards the operator away from the chipper. To make the feedwheel(s) operate so they are pushing material out of the machine, away from the chipper disc/drum, the control handle should be pushed away from the operator, away from you and towards the machine. The control bar is in the off position when it is in the center location.

Yoke Lift Control - Optional:

The yoke lift control operates the top yoke lift cylinder. To lower the yoke, push the yoke lift control handle towards the tongue of the machine. To raise the yoke, push the yoke lift control handle towards the infeed hopper of the machine. The yoke lift control handle is in the flotation position when it is in the center location.

Selector Valve Control - Optional:

The selector valve control allows the operator to change the operation function from the feed function to the winch function or from the winch function to the feed function. The feedwheel(s) will not operate when the selector valve is in the winch function and the winch will not work while the selector valve is in the feed function. To have the feedwheel(s) operate the selector valve needs to be pushed in, away from the operator. To operate the winch the selector valve needs to be pulled out, towards the operator.

Winch Control - Optional:

The winch control operates the winch option. To make the winch reel out push the winch control valve handle in, away from the operator. To make the winch pull material in retract the winch clutch lock pin, pull the clutch handle up, and pull the winch control valve handle out, towards the operator. The winch also has a spool rotation lock, make sure this is disengaged to free wheel cable out of the spool. Note: If the winch control is an electric switch, push the switch out towards the material to make the winch reel out and push the switch away from the material to make the winch pull material in.

Discharge Swivel Control - Optional:

NOTE: Remove transport bolt and/or lock pin BEFORE operating this function.

The discharge swivel control operates the discharge rotate. To make the discharge swivel to the right push the discharge swivel control handle down, towards the ground. To make the discharge swivel to the left pull the discharge swivel control handle up, away from the ground. The discharge swivel control handle is in the off position when it is in the center location. Do not use the hydraulics to secure the discharge when transporting the chipper. Make sure to install the lock bolt and nut before transporting.

Discharge Hydraulic Flipper Control - Optional:

The discharge hydraulic flipper control operates the discharge flipper cylinder. To make the discharge flipper rotate up pull the discharge hydraulic flipper control handle up, away from the ground. To make the discharge flipper rotate downward push the discharge hydraulic flipper control handle down, towards the ground. The discharge hydraulic flipper control handle is in the off position when it is in the center location.

Hydraulic Tongue Jack Control - Optional:

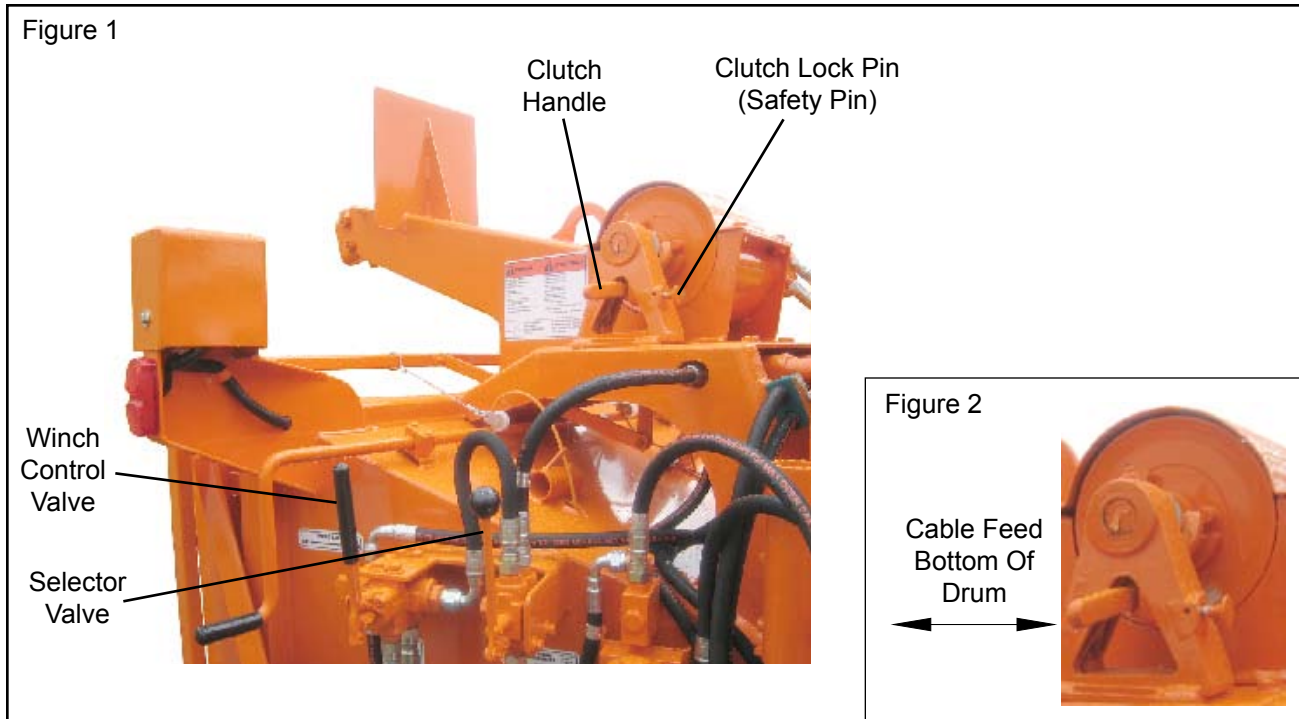
NOTE: Remove lock pin BEFORE operating this function.

The hydraulic tongue jack control operates the hydraulic tongue jack cylinder. To raise the front of the machine pull the hydraulic tongue jack control handle up, away from the ground. To lower the front of the machine push the hydraulic tongue jack control handle down, towards the ground. The hydraulic tongue jack control handle is in the off position when it is in the center location. Install the lock pin at the desired tongue height.

Chip Box Lift Control - Optional:

The chip box lift control operates the chip box lift cylinder. To make the chip box tilt up and empty pull the chip box lift control handle up, away from the ground. To make the chip box tilt down push the chip box lift control handle down, towards the ground. The chip box lift control handle is in the off position when it is in the center location.

WINCH OPERATING PROCEDURES



⚠ WARNING

HYDRAULIC WINCH OPERATION PER WINCH MANUFACTURER!

Install the cable to pull and feed from the bottom of the winch drum (See figure 2). Remove excess bolt length on cable bolts after cable is secured to the spool.

⚠ DANGER

Never reach into the winch or winch roller area.

OPERATING PROCEDURE

1. Winch operation is a one person job. This means the person who hooks the winch to the wood material is the same person who engages the winch.
2. Place the feedwheel control bar in the off position. Make sure chipper and towing vehicle are blocked or anchored in a solid location.
3. Locate the selector valve and engage it to the winch position. The feed system should not operate with selector in winch mode.
4. Make sure the winch clutch is disengaged and pull the cable to the material to be reeled in. Attach cable securely to wood material that you want pulled to chipper.
5. Make sure everyone is clear and then retract the clutch lock pin and then pull the clutch handle up to engage the winch clutch (See Figure 1). Make sure handle is locked in position.
6. Use the winch control valve or the radio remote control (if applicable) to now pull the wood material towards the machine.
7. Once the wood material is pulled to the machine, unhook it from the winch and make sure the cable is completely reeled back in and out of the way. Attach cable to keeper loop. Make sure the cable is clear of the feedwheel(s) or severe damage can occur if the cable should enter the chipper.
8. Reengage selector valve to feed position.
9. Engage the feedwheel(s) and begin feeding wood material.

CHIPPER HOOD ENGINE DISABLE PLUG OPERATION

This chipper hood engine disable plug is installed for safety purposes. It is designed to shut down the engine if the hood pin is not properly in place holding the chipper hood in the closed position. The system must be correctly maintained and operative at all times. If the plug connector is not correctly installed the engine will not start or run.

The chipper hood engine disable plug is located on top of the chipper hood (see figure 1). The chipper engine disable plug is made up of two parts: an electric socket and a plug connector (see figure 2). The electric socket is bolted to the chipper engine disable plug mount bracket (see figure 3) and the plug connector is attached by a cable to the hood pin (see figure 4).

If the chipper engine disable plug is not properly installed then the engine will not start or run. If the chipper engine disable plug becomes disconnected while the chipper engine is running the engine will be shut down or be disabled from running. This is for safety purposes, to ensure that the hood pin is not removed and the chipper hood is not opened while the engine is running.

The chipper engine disable plug is wired to shut down the chipper engine. When the plug connector is pulled out of the electric socket the electric circuit is broken, disabling the engine.

NOTICE

The engine disable plug has a circuit fuse. If the engine will not start or run, check the fuse first before consulting the engine manufacturer's manual. Circuit fuse locations: CAT / Perkins- located at the "BATT" wire near the ignition switch, Cummins- located by engine manufacturer near the starter (wires labeled "POW"), John Deere- located by engine manufacturer "Short Stop" circuit breaker by the ignition switch on the instrument panel or fuse by the ECM, and Deutz, Hatz, Honda, Kohler, and Robin- located at the battery post on the starter.

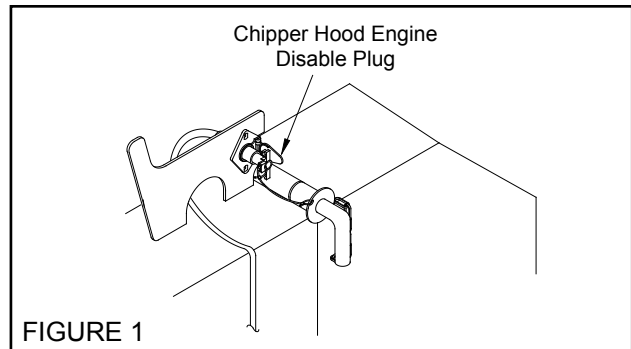


FIGURE 1

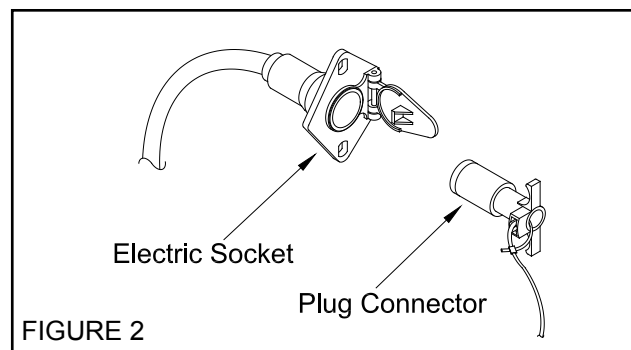


FIGURE 2

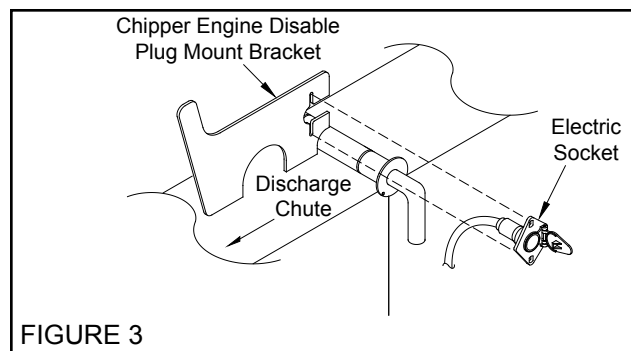


FIGURE 3

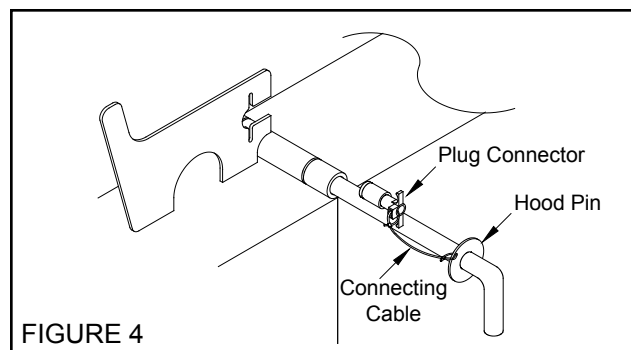


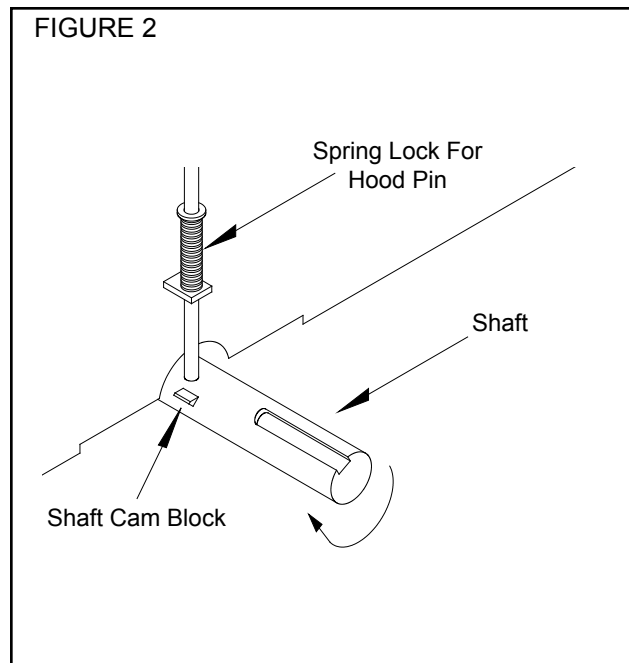
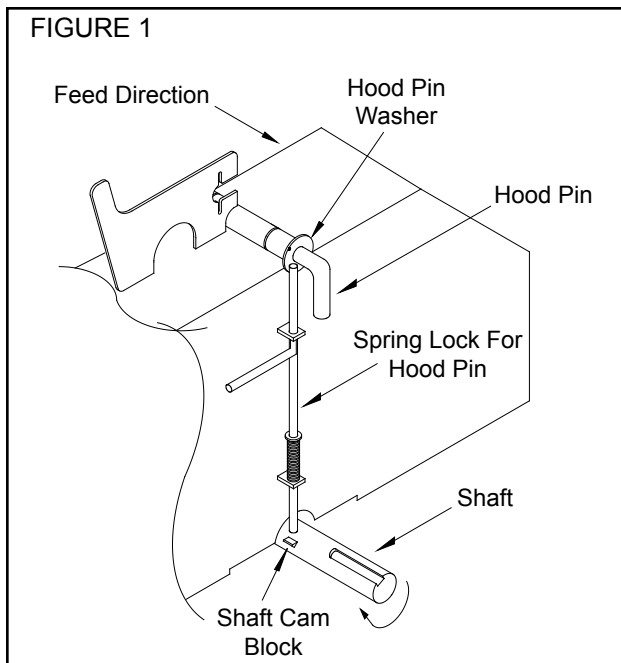
FIGURE 4

SPRING LOCK FOR HOOD PIN OPERATION

The patented spring lock for hood pin, is installed for safety purposes. It is designed to help keep the hood pin from being removed if the chipper disc is turning. NEVER ATTEMPT TO PUSH THE SPRING LOCK FOR HOOD PIN DOWN OR REMOVE THE HOOD PIN, UNTIL AFTER THE ENGINE AND CHIPPER DISC HAVE BOTH COME TO A COMPLETE STOP.

The spring lock is located on the side of the chipper hood. The top of the spring lock should be directly behind the hood pin washer when the hood pin is properly installed in place holding the chipper hood in the closed position (see figure 1).

With the chipper hood shut and hood pin in place the spring lock helps keep the hood pin from sliding out or from being removed if the chipper disc is turning. There is a shaft cam block installed on the chipper shaft which will not allow the spring lock to be pulled down if the chipper disc is turning (see figure 2). When the chipper disc is turning, if the spring lock was to be pulled down or recessed it would simply hit the shaft cam block bouncing the spring lock back into position not allowing for the removal of the hood pin.

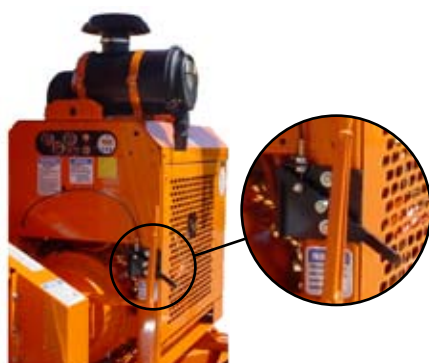


CONSULT THE ENGINE MANUFACTURER’S MANUAL FOR SPECIFIC CONTROLS, OPERATION, & MAINTENANCE FOR TYPICAL ENGINES

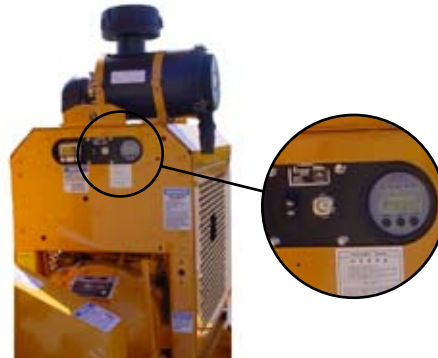
- 1) **Ignition Switch:**
Turn the ignition switch key clockwise one stop (on position) to turn the electrical system on. The key should remain in the on position while the engine is running. Turn the key fully clockwise (start position) this will start the engine. To shut off the engine, return the 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.
- 8) **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.
- 9) **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.
- 10) **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.
- 11) **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.

TYPICAL DIESEL ENGINES

TYPICAL GASOLINE ENGINE



BANDIT THROTTLE SYSTEM



PUSH BUTTON OR ELECTRIC THROTTLE SYSTEM



Bandit

Transportation Procedures

WARNING

BEFORE TRANSPORTING THE MACHINE THE FOLLOWING MUST BE COMPLETED.

- 1) Idle engine, disengage clutch.
- 2) Make sure the feedwheel is in the lowered position.
- 3) Place all hydraulic controls in the "off" position.
- 4) Turn off engine, wait for the chipper disc/drum to come to a complete stop and you must have the ignition key in your possession.
- 5) Remove all excess debris. Remove any wood or debris which may have collected.
- 6) Return wooden push paddle to the mount and secure for transportation. Store all tools in the tool box and make sure all boxes and cabinets are closed and secured.
- 7) If equipped, close the folding infeed pan for the infeed hopper and make sure the spring latches are locked into place.
- 8) Raise the front of the machine or transport trailer with the tongue jack and remove the stabilization blocks used. If the machine is equipped with a hydraulic tongue jack, remove the lock pin before raising the front of the machine.
- 9) Couple machine or transport trailer 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 jack in the transport position. If the machine is equipped with a hydraulic tongue jack, lift the foot pad to the transport position and install the lock pin.
- 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 or transport trailer.
- 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) Do not transport unless discharge is clamped, pinned and bolted securely into place in the transport position pointed over the tongue.
- 15) If machine is equipped with a chip box, lock the turntable in the transport position.
- 16) Check tires for correct pressure, cuts or damaged rims.
- 17) Check lug nuts and retorque if necessary. Check new units before operation, check again after 20-25 miles (32-40 km) and regularly check at least weekly.
- 18) Inspect and replace any axle dust caps that are damaged or leaking.
- 19) Check wheel bearings and grease or oil axles per axle manufacturer's manual.
- 20) Walk around the machine to confirm that everything is secure and that there is not 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.
- 21) If machine is equipped with a vise, make sure to secure in place and clamp jaws closed.
- 22) 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.
- 23) If the machine is self propelled and on a transport trailer, make sure the trailer has the correct load capacity, the machine is positioned on the trailer for correct weight distribution, and the machine is securely bound down to the trailer bed per your States binding requirements. Make sure the loading ramps are securely stored for transport. (See Loading & Unloading Self-Propelled Machines.)
- 24) The machine is now ready for transport. Make sure to obey all local regulations and laws regarding the transporting of this type of machine.
- 25) 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.

Loading & Unloading Self-Propelled Machines

WARNING

BEFORE ATTEMPTING TO USE A TRAILER FOR TRANSPORT, MAKE SURE THE TRAILER TOWING VEHICLE IS APPROPRIATE FOR THE TASK.

- 1) The trailer has a cargo weight rating capacity for the weight of the machine. The combined weight of the trailer and the machine can not exceed the load capacity of the tires, axles, hitch coupler system or the GVWR (Gross Vehicle Weight Rating) of the trailer.
- 2) The trailer must have a lighting system and a braking system to match and perform correctly off the towing vehicle's system. You must meet the Federal and your States' Department of Transportation Code of Regulations concerning lights, brakes, and highway transit.
- 3) Make sure the towing vehicle has the hauling and hitch capacity ratings for the trailer and machine combination. The towing vehicle must be mechanically sound and capable of handling the towing job.
- 4) The trailer should be constructed with appropriate chain down positions for the specific sized machine. You must have binders that will withstand the strain of the machine trying to move while it is being transported.
- 5) When the machine is positioned on the trailer bed, there should be about 15% of the total trailer package weight on the tongue or hitch.
- 6) The loading ramps or loading gate of the trailer must be constructed to withstand the weight and forces involved in loading and unloading the machine.

WARNING

BEFORE LOADING OR UNLOADING THE MACHINE INSPECT AND CONFIRM THE FOLLOWING STEPS: When loading or unloading the self-propelled machine on the trailer, use care and caution. The maneuvering of the equipment must be slow, smooth, and intentional, not fast and jerky.

- 1) Make sure the trailer and towing vehicle are parked on a flat surface. They must be stable on the surface with the brakes locked and/or the wheels chocked to avoid unwanted movement.
- 2) Position the loading ramps or loading gate securely between the trailer and the ground level. Have them located so that they are in line with the tires or tracks of the machine when it moves.
- 3) Remove and store the chains and binders used for transporting.
- 4) Confirm that there are not any obstacles on the trailer bed, around the trailer that may cause restricted movement of the machine or the operator.
- 5) The only person in the area should be the one that is operating the machine controls, and he/she should be very experienced with the controls on this machine.
- 6) If you are on streets, roads or public areas, position the warning cones etc, per your company's safety policy.
- 7) Follow all pre-startup instructions for the machine.
- 8) Typically, the engine end of the machine should be positioned so that it is toward the tongue of the trailer, during transport.
- 9) Align the machine with the trailer bed, and the loading ramps. The only equipment movement should be slowly, straight on or straight off the trailer.
- 10) With the engine and the machine at as low a speed as possible, move the machine toward the ramp system. Make sure the alignment is correct throughout the travel.
- 11) Properly secure the equipment and the area to avoid any possible accidents or dangers.

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 disc/drum to come to a complete stop, install the disc/drum lock pin, 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. With everything shut down and stopped, insure last chance cables freely operate feed control valve.

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 45 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 chipper hood hinge:

Make sure the hood hinge operates correctly, and is lubricated. Must replace hinge if damaged.

6) Checking for foreign objects:

Before opening the hood make sure the clutch is disengaged, the engine off, the disc/drum lock pin is installed, battery is disconnected, and also make sure the ignition key is in your possession. Remove the hood pin padlock, disconnect the chipper hood engine disable plug, suppress the spring lock for hood pin on disc chippers, and then remove the hood lock pin. Look for any foreign objects inside the chipper housing or in the knife pockets of the disc/drum. Remove any foreign objects found.

Bandit

DAILY START UP & MAINTENANCE (cont.)

7) Check chipper disc assembly:

Check for elongated bolt holes, secure welds, torqued bolts, excessive wear and impact cracks. If a problem is found contact the chipper manufacturer or an authorized Bandit dealer. Also check the chipper housing at this time. Check the chipper base, belly band, and hoods for wear or damage. Also inspect the chipper bearings.

8) Check chipper disc/drum to turn:

Very carefully, manually with a pry bar or wood bar, turn the chipper disc/drum a full revolution. This is to ensure the anvil and knives have proper clearance. If the chipper disc/drum is jammed with debris or frozen in place, DO NOT attempt to start the engine and engage clutch until the chipper disc/drum rotates freely.

9) Check the condition of your fan blades, knives, anvil, and attaching hardware:

Grind, file, or replace your knives to keep them sharp. Check the fan blades, anvil, and attaching hardware for the knives and anvil. Replace if necessary.

10) Properly torque the knife mounting hardware:

All knife mounting hardware must be factory approved. Knife mounting hardware must be replaced after maximum of 4-5 knife rotations/changes to insure safe clamping ability.

Torque set, AT ALL TIMES to:

See TORQUE CHART on page 45.

11) Hood lock pin and padlock:

After closing chipper hood, reinsert the hood pin and padlock, make sure pin is tight and secure. If worn replace immediately. Don't use a worn or makeshift hood pin. Make sure the spring lock for the hood pin is in the correct position on disc chippers. Make sure the chipper hood engine disable plug is installed correctly and that it is also operating properly.

12) Grease all feedwheel and chipper bearings daily:

Use an EP-2 Lithium type grease only for all bearings. Purge chipper bearings with grease. You can not over grease these bearings. Grease feedwheel bearings with one shot of grease. Both types of bearings are designed with a relief system that will not allow over greasing. In other words, you can not hurt the bearing seals by pumping in too much grease. Most of the failures related to bearings are diagnosed as "Contamination". Contamination is caused by improper lubrication. Wipe off excess grease. **Excessive grease will attract dirt.**

13) Grease yoke pivot bearings:

Grease yoke pivot bearings with one shot of an EP-2 Lithium type grease. Wipe off excess grease. **Excessive grease will attract dirt.**

14) Check / adjust the chipper drive belt tension:

The belts will need to be tightened several times in the first few days of operation. A loose belt will slip and then glaze over. Once they slip you must replace them. Check hydraulic pump drive belts also if equipped. See pages 52 - 54 for procedures.

15) Check the hydraulic pump and motor shafts:

Check the hydraulic pump and hydraulic motor shafts for fit and tightness.

16) 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.

17) 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.

18) Check hydraulic control valves:

Inspect all hydraulic control valves and insure they operate smoothly and shift correctly.

19) 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.

20) 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.

21) Check radiator, debris screen:

Thoroughly clean radiator fins at least once a day and twice in excessive conditions. Make sure debris is not packed between fins. Use pressurized water spray to clean. Do not rely on air pressure. The radiator will only appear to be clean. A partially plugged radiator will not allow the engine to cool properly. 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 engine failure.

Bandit

DAILY START UP & MAINTENANCE (cont.)

22) Check oil cooler (if equipped):

Thoroughly clean cooler fins at least once a day and twice in excessive conditions. Make sure debris is not packed between fins. Use pressurized water spray to clean. Do not rely on air pressure. The oil cooler will only appear to be clean.

23) Check air cleaner or precleaner:

Clean or replace element following engine manual recommendations. Also, check and clean the vacuator valve.

24) Check clutch:

Check for proper lubrication, and engagement tension adjustment, frequently adjust and lubricate per PTO clutch manufacturer's manual. Bandit Industries, Inc. does not warranty clutch failures.

25) Check tires:

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

26) Inspect axle dust caps:

Inspect axle dust caps and replace if damaged or leaking.

27) Inspect, adjust, and lubricate tracks (if equipped):

Inspect, adjust, and lubricate tracks as needed per track MFG. manual.

28) Check the infeed hopper:

Check in the infeed hopper for any foreign objects and around the entire machine for tools, cans, saws, etc. All tools not in use should be stored in a tool box.

29) Block the tires and tongue:

Before operation block the tires and tongue for stability. Do not rely on tongue jack for operational stabilization.

30) Check the discharge direction:

Remove transport bolt and nut, then make sure the discharge is pointed in a safe direction and locked into place.

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

32) 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.

33) Remember to check EVERYTHING on the checklist.

WEEKLY MAINTENANCE

1) Check anvil clearance, tightness, and wear:

Measure the anvil clearance. The clearance should be .045" (1.1mm) to .065" (1.7mm) from highest knife. Check the anvil hardware, make sure the bolts are at the proper torque. The anvil is a normal wear item, if it is worn you can rotate it to a new working edge. Refer to pages 56 - 57 for the exact checking of anvil clearance procedure.

2) Check alternator and fan belts on engine:

As applicable adjust and maintain per the engine manufacturer's manual.

3) Check spring tension on feed system:

Do not over tighten. Keep tight for small diameter material and progressively looser for larger diameter material.

4) Check wheel lug nuts:

Keep lug nuts tight, retorqued, replace if needed.

5) Check and retighten tank mount bolts:

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

6) 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. control handle, folding pan, discharge flipper, winch rollers, height adjustable discharge, discharge T-handle, etc.)

7) Lube chain driven components:

Use a dry lube on any chain driven components: hydraulic swivel discharge and chain driven feedwheels.

8) Grease chip box turntable (if equipped):

Grease chip box turntable bearing's zerks with 1 to 2 shots of an EP-2 Lithium type grease. Wipe off excess grease. **Excessive grease will attract dirt.**

Bandit

MONTHLY MAINTENANCE

1) Check towing hitch:

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

2) Check discharge and infeed hopper wear:

Check for wear on discharge, infeed hopper, and discharge direction adjustor; build up, repair or replace as needed.

3) Inspect feedwheel motor connections:

Check and maintain correct torque, on feedwheel motor connections. See page 55.

4) Check feedwheel teeth for sharpness:

Replace if needed.

5) Check chipper bearings and chipper sheave:

Check, retighten all bearing bolts, bearing lock collars, and also belt sheave bushings to correct torques.

6) 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.

7) Tire air pressure:

Fill each tire to rated capacity on tire.

8) Check wheel bearings:

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

9) Check and adjust brakes (if equipped):

Check and adjust brakes as needed per axle MFG. manual.

10) Check discharge chain tension (if equipped):

Check tension on hydraulic or hand crank swivel discharge chain drive and tighten as necessary. Chain tension is 1/4" (6 mm) per foot (0.3 m) of center distance between the sprockets, NOT to exceed a 1/2" (13 mm) of deflection. Do not over tighten, which may result in hydraulic motor failure.

11) 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.

12) Check chip box turntable bearing (if equipped):

Check and retorque the chip box turntable bearing bolts.

3 MONTH MAINTENANCE

1) Hydraulic oil filter(s):

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.

3) High pressure oil filter(s) (if equipped):

Must be replaced after FIRST 10 HOURS OF OPERATION. After first change replace oil filter every 3 months or 400 hours.

2) Grease discharge swivel plates:

Grease swivel plates for discharge as needed.

YEARLY MAINTENANCE

1) Hydraulic oil:

Change hydraulic oil and flush the hydraulic reservoir tank.

2) Hydraulic suction screen(s):

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



MAINTENANCE SECTION

BOLT TORQUE CHART			
(THESE TORQUES ARE BASED ON DRY, CLEAN THREADS)			
DESCRIPTION	BOLT SIZE	TORQUE (FT.-LBS.)	TORQUE(Nm)
Chipper Bearing Bolts (95 and 65 Belt Side)	5/8" - 11 NC	150	203
Chipper Bearing Bolts (65 Infeed Hopper Side)	1/2" - 13 NC	70	95
Chipper Shaft Bearing Retainer (95)	3/4" - 10 NC	170	230
Chipper Shaft Bearing Retainer (65)	5/8" - 11 NC	150	203
Chipper Draw Ring (95)	5/8" - 18 NF	150	203
Anvil (95)	5/8" - 11 NC	120	163
Anvil (65)	1/2" - 13 NC	65 - 75	88 - 102
Feedwheel Bearing Bolts	1/2" - 13 NC	75	102
Feedwheel Bearing Set Screws (95)	3/8" - 24 NF	20	27
Feedwheel Bearing Set Screws (65)	5/16" - 24 NF	14	19
Grip-Tight Feedwheel Bearing Set Screws		2	3
Engine Hold Downs	5/8" - 11 NC	125	169
Engine Hold Downs	1/2" - 13 NC	60	81
Engine Hold Downs	3/8" - 16 NC	35	47
Knife Bolts (9/16" x 3 5/8" x 10 1/8" Knives - 95)	1/2" - 13 NC	70 - 80	95 - 108
Knife Bolts (1/2" x 4" x 7 1/4" Knives - 65)	1/2" - 13 NC	70 - 80	95 - 108
"RS" Hydraulic Feedwheel Motor Shaft Nut (65)	3/4" - 28 NEF	150 - 170	203 - 230
"RE" Hydraulic Feedwheel Motor Shaft Nut (95)	1" - 20 NEF	250 - 300	339 - 407
Engine Sheave Bushing "SD"	1/4" - 20 NC	9	12
Engine Sheave Bushing "SK"	5/16" - 18 NC	15	20
Engine Sheave Bushing "SF"	3/8" - 16 NC	30	41
Chipper Sheave Bushing "E"	1/2" - 13 NC	60	81
Chipper Sheave Bushing "F"	9/16" - 12 NC	75	102
Autofeed Cartridge Nut		4 - 6	5 - 8
Autofeed Plus Solenoid Retainer Nut		4 - 6	5 - 8
Hitch Mount Bolts	5/8" - 11 NC	220	298
Chip Box Turntable Bearing	1/2" - 13 NC	65 - 75	88 - 102

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)
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.)	

DAILY START UP & MAINTENANCE CHECK LIST

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

	O.K.	Repaired
1) Check the safety decals and engine gauges, replace if damaged.	<input type="checkbox"/>	<input type="checkbox"/>
2) Check, maintain, and service all safety equipment for proper operation: "Last Chance Stop" system, engine disable plug, control bar, hood pin, spring lock for hood pin (disc chippers only), pusher tool, etc.	<input type="checkbox"/>	<input type="checkbox"/>
3) Check entire machine for loose nuts, bolts, and components.	<input type="checkbox"/>	<input type="checkbox"/>
4) Check all guards to make sure they are tight and securely in place.	<input type="checkbox"/>	<input type="checkbox"/>
5) Make sure hood hinge operates correctly, is not damaged, and is lubricated.	<input type="checkbox"/>	<input type="checkbox"/>
6) Open chipper hood and check for any foreign objects in chipper housing or knife pockets.	<input type="checkbox"/>	<input type="checkbox"/>
7) Check the condition of chipper disc/drum assembly.	<input type="checkbox"/>	<input type="checkbox"/>
8) Carefully rotate the chipper disc/drum with a pry bar or wood bar to insure proper anvil clearance. If chipper disc/drum is jammed with debris or frozen in place, do not attempt to start engine and engage clutch until chipper disc/drum rotates freely.	<input type="checkbox"/>	<input type="checkbox"/>
9) Check the condition of your fan blades, knives, anvil, and attaching hardware.	<input type="checkbox"/>	<input type="checkbox"/>
10) Properly torque knife mounting hardware.	<input type="checkbox"/>	<input type="checkbox"/>
11) After closing chipper hood, reinsert the hood pin and padlock, make sure the hood pin is tight and secure. Make sure the hood lock pin is firmly in place, the spring lock for hood pin springs back into position on disc chippers, and the chipper hood engine disable plug is installed correctly.	<input type="checkbox"/>	<input type="checkbox"/>
12) Grease chipper bearings (purge) and feedwheel bearings (1 shot) daily.	<input type="checkbox"/>	<input type="checkbox"/>
13) Grease yoke pivot bearings with 1 shot.	<input type="checkbox"/>	<input type="checkbox"/>
14) Check and/or adjust belt tension on chipper and hydraulic pump belt drives.	<input type="checkbox"/>	<input type="checkbox"/>
15) Check hydraulic pump and motor shafts for fit and tightness.	<input type="checkbox"/>	<input type="checkbox"/>
16) Check and always maintain hydraulic level at 7/8 full.	<input type="checkbox"/>	<input type="checkbox"/>
17) Check all hoses, fittings, lines, and tanks for damage and fluid leaks.	<input type="checkbox"/>	<input type="checkbox"/>
18) Check hydraulic control valves and insure they operate and shift correctly.	<input type="checkbox"/>	<input type="checkbox"/>
19) Check fuel level. (Running out and repriming is time consuming).	<input type="checkbox"/>	<input type="checkbox"/>
20) Check engine oil, coolant levels, and correct engine speed. Follow ENGINE MANUFACTURER'S manual specs.	<input type="checkbox"/>	<input type="checkbox"/>
21) Check radiator and debris screen. Clean as necessary. Clean cooling fan and shroud on air cooled engines.	<input type="checkbox"/>	<input type="checkbox"/>
22) Check oil cooler (if equipped). Clean as necessary.	<input type="checkbox"/>	<input type="checkbox"/>
23) Check air cleaner, precleaner, and vacuator valve. Clean as necessary.	<input type="checkbox"/>	<input type="checkbox"/>
24) Check clutch for proper engagement tension and lubrication, frequently adjust and grease per PTO manufacturer's manual recommendations.	<input type="checkbox"/>	<input type="checkbox"/>
25) Check condition of the tires.	<input type="checkbox"/>	<input type="checkbox"/>
26) Inspect and replace any axle dust caps that are damaged or leaking.	<input type="checkbox"/>	<input type="checkbox"/>
27) Inspect, adjust, and lubricate tracks per manufacturer's manual recommendations (if equipped).	<input type="checkbox"/>	<input type="checkbox"/>
28) Check infeed hopper and around the entire machine for any foreign objects, tools, cans, saws, etc.	<input type="checkbox"/>	<input type="checkbox"/>
29) Block tires and tongue for stability before operation. Do not rely on tongue jack.	<input type="checkbox"/>	<input type="checkbox"/>
30) Remove transport bolt and nut, then make sure discharge is pointed in safe direction and locked into direction.	<input type="checkbox"/>	<input type="checkbox"/>
31) Review all safety procedures on decals, from manual, and from video.	<input type="checkbox"/>	<input type="checkbox"/>
32) Wear all applicable safety equipment: hard hat, face shield, gloves, eye protection, ear protection, etc.	<input type="checkbox"/>	<input type="checkbox"/>
33) Remember to check EVERYTHING on the checklist.	<input type="checkbox"/>	<input type="checkbox"/>

Bandit

WEEKLY CHECK LIST

- | | O.K. | Repaired |
|---|--------------------------|--------------------------|
| 1) Check anvil clearance, tightness, and wear. | <input type="checkbox"/> | <input type="checkbox"/> |
| 2) Check alternator and fan belts on engine. | <input type="checkbox"/> | <input type="checkbox"/> |
| 3) Check spring tension on feed system. | <input type="checkbox"/> | <input type="checkbox"/> |
| 4) Check and retighten wheel lug nuts. | <input type="checkbox"/> | <input type="checkbox"/> |
| 5) Check and retighten fuel tank and hydraulic tank mount bolts. | <input type="checkbox"/> | <input type="checkbox"/> |
| 6) Lubricate steel friction areas: pivoting, hinged, sliding, & rotating areas (i.e. control handle, folding pan, discharge flipper, winch rollers, etc). | <input type="checkbox"/> | <input type="checkbox"/> |
| 7) Use a dry lube on any chain driven component. | <input type="checkbox"/> | <input type="checkbox"/> |
| 8) Grease chip box turntable bearing with 1 to 2 shots (if equipped). | <input type="checkbox"/> | <input type="checkbox"/> |

MONTHLY CHECK LIST

- | | O.K. | Repaired |
|---|--------------------------|--------------------------|
| 1) Check towing hitch for wear, keep pintle ring greased. | <input type="checkbox"/> | <input type="checkbox"/> |
| 2) Check discharge, and infeed hopper for wear. | <input type="checkbox"/> | <input type="checkbox"/> |
| 3) Inspect feedwheel motor connection. | <input type="checkbox"/> | <input type="checkbox"/> |
| 4) Check feedwheel teeth for sharpness. | <input type="checkbox"/> | <input type="checkbox"/> |
| 5) Check, retighten all bearing and chipper sheave bolts. | <input type="checkbox"/> | <input type="checkbox"/> |
| 6) Check hydraulic function pressures. Set to specified PSI (bar). | <input type="checkbox"/> | <input type="checkbox"/> |
| 7) Check and fill tires to rated pressure. | <input type="checkbox"/> | <input type="checkbox"/> |
| 8) Check and grease or oil wheel bearings, follow axle MFG. instructions. | <input type="checkbox"/> | <input type="checkbox"/> |
| 9) Check and adjust brakes, follow axle MFG. instructions (if equipped). | <input type="checkbox"/> | <input type="checkbox"/> |
| 10) Check and adjust discharge chain tension (if equipped). | <input type="checkbox"/> | <input type="checkbox"/> |
| 11) Lubricate "Bandit" lever throttle cable. | <input type="checkbox"/> | <input type="checkbox"/> |
| 12) Check and retorque chip box turntable bearing bolts (if equipped). | <input type="checkbox"/> | <input type="checkbox"/> |

3 MONTH CHECK LIST

- | | O.K. | Repaired |
|--|--------------------------|--------------------------|
| 1) Replace hydraulic filter(s) after first 10 hours then quarterly or every 400 hours. | <input type="checkbox"/> | <input type="checkbox"/> |
| 2) Grease swivel plates for discharge as needed. | <input type="checkbox"/> | <input type="checkbox"/> |
| 3) Replace high pressure oil filter(s) (if equipped) after first 10 hours then quarterly or every 400 hours. | <input type="checkbox"/> | <input type="checkbox"/> |

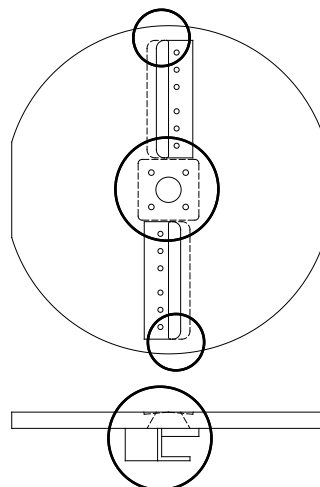
YEARLY CHECK LIST

- | | O.K. | Repaired |
|--|--------------------------|--------------------------|
| 1) Change hydraulic oil and flush the hydraulic tank. | <input type="checkbox"/> | <input type="checkbox"/> |
| 2) Replace hydraulic suction screen(s) annually or every 2000 hours. | <input type="checkbox"/> | <input type="checkbox"/> |

⚠ WARNING

WHEN YOU CHANGE CHIPPER KNIVES

CHECK CHIPPER DISC ASSEMBLY FOR ELONGATED KNIFE BOLT HOLES, SECURE WELDS, TORQUED BOLTS, EXCESSIVE WEAR AND IMPACT CRACKS. IF A PROBLEM IS FOUND CONTACT CHIPPER MANUFACTURER, OR AN AUTHORIZED CHIPPER DEALER. ALSO CHECK THE CHIPPER HOUSING AT THIS TIME. CHECK BELLY BAND, BASE AND HOODS FOR WEAR AND DAMAGE. ALSO INSPECT THE CHIPPER BEARINGS.



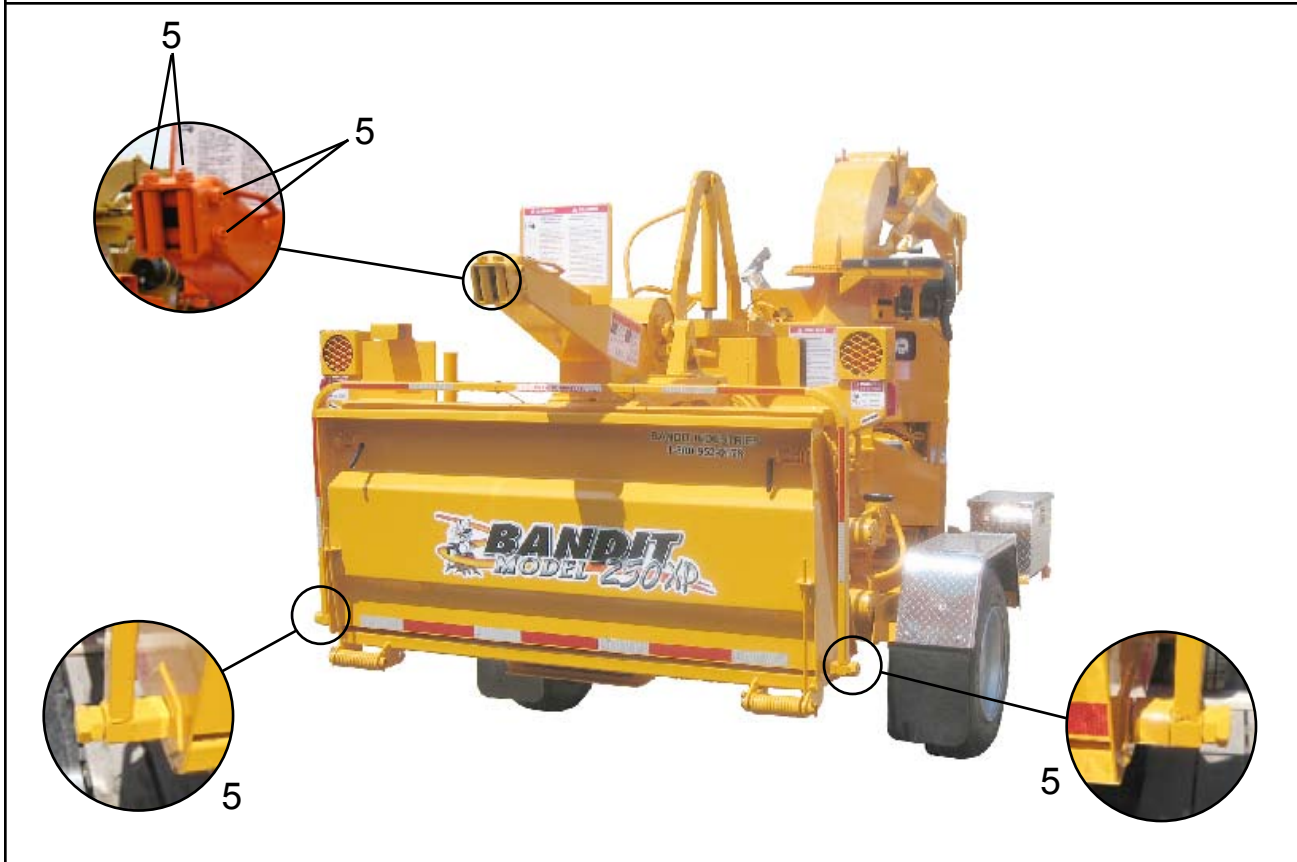
Bandit

LUBRICATION CHART

#	DESCRIPTION	CHECK			PROCEDURE
		DAY	WEEK	MONTH	
1	Disc/Drum Bearings	X			Purge bearings daily - wipe off excess
2	Feedwheel Bearings	X			1 shot of grease - wipe off excess
3	Yoke Pivot Bearings	X			1 shot of grease - wipe off excess
4	Hood Hinge	X			1 to 2 shots of grease - wipe off excess
5	Steel Friction Areas: pivoting, hinged, sliding, rolling		X		Lubricate (i.e. control handle, discharge flipper, folding pan, winch rollers, etc)
6	Chain Driven Components		X		Dry lube (Swivel discharge, chain driven feedwheels, etc)
7	Pintle Eye Ring			X	Grease to reduce wear
8	Bandit Throttle Cable			X	Lubricate inner cable & ends SAE 10W/30
9	Discharge Swivel Plates			3 Months	Grease as needed
10	Clutch	—————>			Grease per MFG's instructions
11	Wheel Bearings - if equipped	—————>			Grease or oil per MFG's instructions
12	Tracks - if equipped	—————>			Grease per MFG's instructions



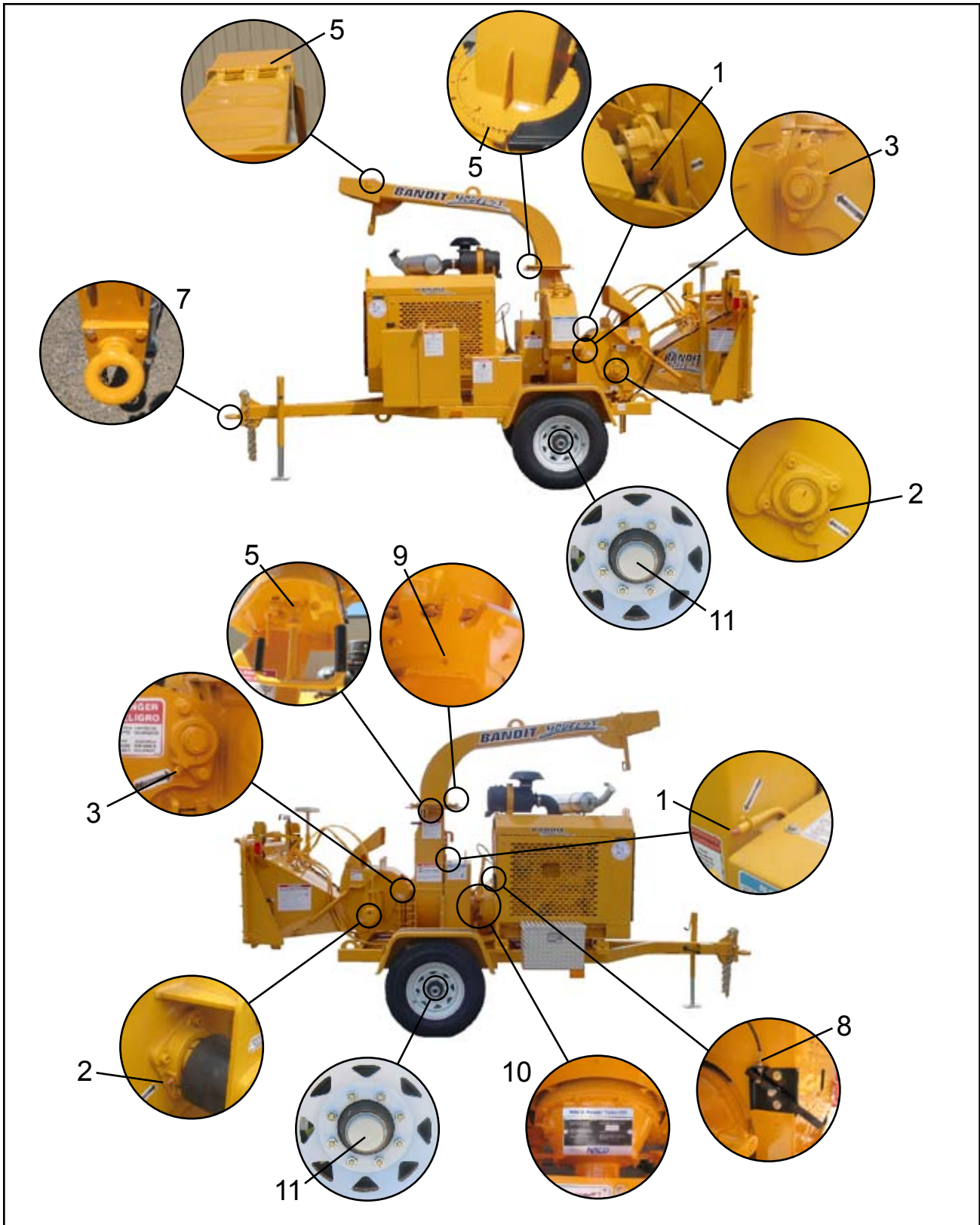
A right angle grease fitting may need to be used to grease some of the lubrication points. This type of grease fitting can be obtained from most local automotive parts stores.



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.

Bandit

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.

Bandit

LUBRICATION CHART - CHIP BOX

#	DESCRIPTION	CHECK			PROCEDURE
		DAY	WEEK	MONTH	
1	Steel Friction Areas: pivoting, hinged, sliding, rolling		X		Lubricate (i.e. control handle, discharge flipper, folding pan, winch rollers, etc)
2	Chip Box Turntable Bearing		X		1 to 2 shots of grease - wipe off excess



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.

Bandit

LUBRICATION CHART - CHIP BOX



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.

Bandit

BELT TENSION

GENERAL RULES FOR TENSIONING

1. Check tensioning during the first 2 through 48 hours of run-in operation especially.
2. Over tensioning or under tensioning shortens belt and bearing life.
3. Keep belts free from foreign materials that may cause the belt to slip.
4. Make V-drive inspection on a periodic basis. Never use belt dressing as this will damage the belt and cause early failure.
5. Belts should never be forced over the sheave. Allow enough room for belts to slip on.
6. Always make sure sheaves are aligned properly.

TENSIONING PROCEDURE

Main Drive Belts

Follow all pre-maintenance shut down procedures. Locate the center of the belt span between the sheaves. Push or pull on the belt until the belt has deflected 1/4" (6.4 mm) for a Model 65 or 3/8" (9.5 mm) for a Model 95. Record the push or pull force. The force should be 12 to 13 lbs./belt (5.4 to 5.9 kg/belt) for a Model 65, 9 to 10 lbs./belt (4.1 to 4.5 kg/belt) for a Model 65 with a Honda engine, or 10 to 12 lbs./belt (4.5 to 5.4 kg/belt) for a Model 95. Adjust the belt tension if the force falls outside of this range. If belts are not properly adjusted belts will slip, glaze over, and be ruined. This is NOT covered by warranty.

- 1) Remove beltshield.
- 2) To adjust the belt tension, loosen the four engine mounting bolts and the jam nuts on the engine adjuster on the radiator end of the engine.
- 3) Adjust the belt tension with the engine adjuster on the clutch end of the engine. If you have to push the engine with the adjuster, the belts will tighten slightly after the engine is realigned.
- 4) Use the engine adjuster on the radiator end of the engine to realign the engine, so the engine sheave and chipper sheave are aligned. The sheaves can be checked with a string or straight edge.
- 5) Torque the two engine mounting bolts (see Torque Chart for the correct torque) on the opposite side of the engine from the engine adjusters.
- 6) Loosen the jam nuts on the engine adjuster on the radiator end of the engine.
- 7) Torque the engine mount bolt and then tighten the engine adjuster jam nuts on the radiator end.
- 8) Hand tighten the remaining engine mount bolt and loosen the engine adjuster jam nut on the clutch end half a rotation. Loosen the engine adjuster jam nuts all the way and torque the engine mount bolt.
- 9) Tighten the engine adjuster jam nuts on the clutch end.
- 10) Recheck the belt tension and alignment, if readjustment is needed go back to step 2.
- 11) Reinstall beltshield.

NOTICE lbs./belt (kg/belt) is per 1 belt. If equipped with 4 groove poly band belt, lbs./belt (kg/belt) must be multiplied by 4. If equipped with two 3 groove poly band belts, lbs./belt (kg/belt) must be multiplied by 3 for each poly band belt. If equipped with 2 groove poly band belts, lbs./belt (kg/belt) must be multiplied by 2 for each poly band belt.

NOTICE It is a good practice to rotate the belts during tensioning. Then recheck deflections. The belts may need to be tightened again.

Pump Drive Belts (If equipped)

- 1) Locate the center of the span between sheaves.
- 2) Push or pull down on the belt until the belt has deflected 1/4" (6.4 mm).
- 3) Record push or pull down force. The force should be 8 to 9 lbs (3.6 to 4.1 kg).
- 4) Adjust the belt tension if the force falls outside of this range.

Do not over tighten the hydraulic pump belt. For best results use a good belt tension tester. Most all pump failures result from too much side load on the pump shaft. Too much belt tension is very easy to detect inside a failed pump. Pumps with this condition will not be covered under warranty.

DO NOT IGNORE THIS MAINTENANCE RULE!

New belts stretch very soon and must be adjusted several times in the first few hours of operation. Adjust after one hour of operation, then every four hours until the belts quit stretching.

Failure to do this will cause the belts to burn and fly off. **THIS FAILURE IS NOT COVERED BY WARRANTY!**

Bandit

BELT TENSION

FIGURE 1

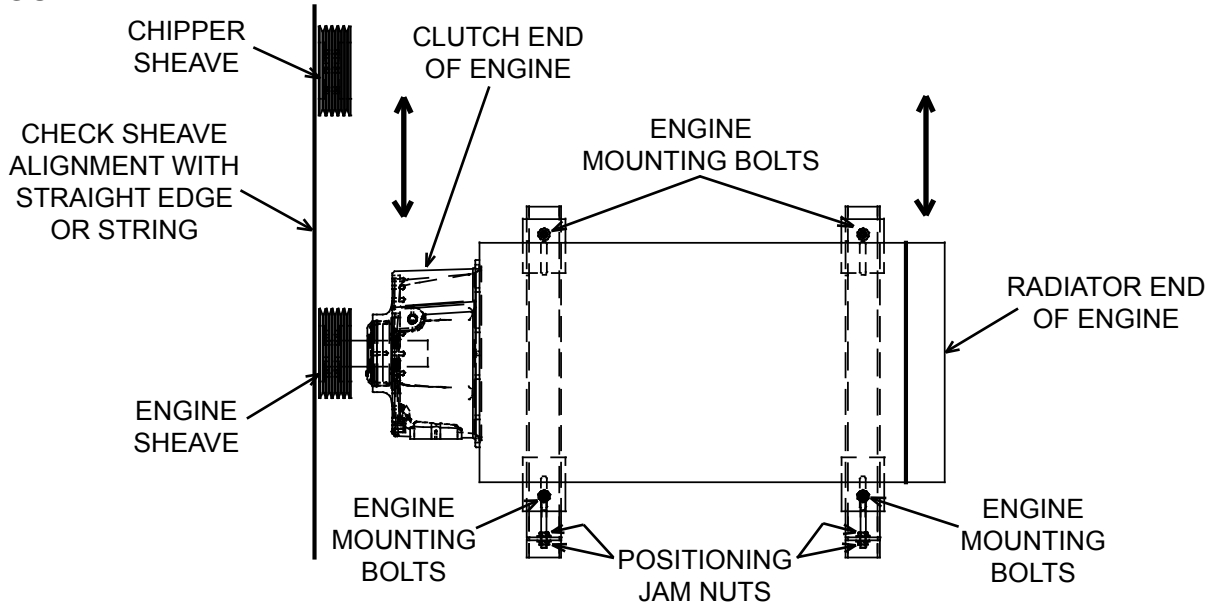
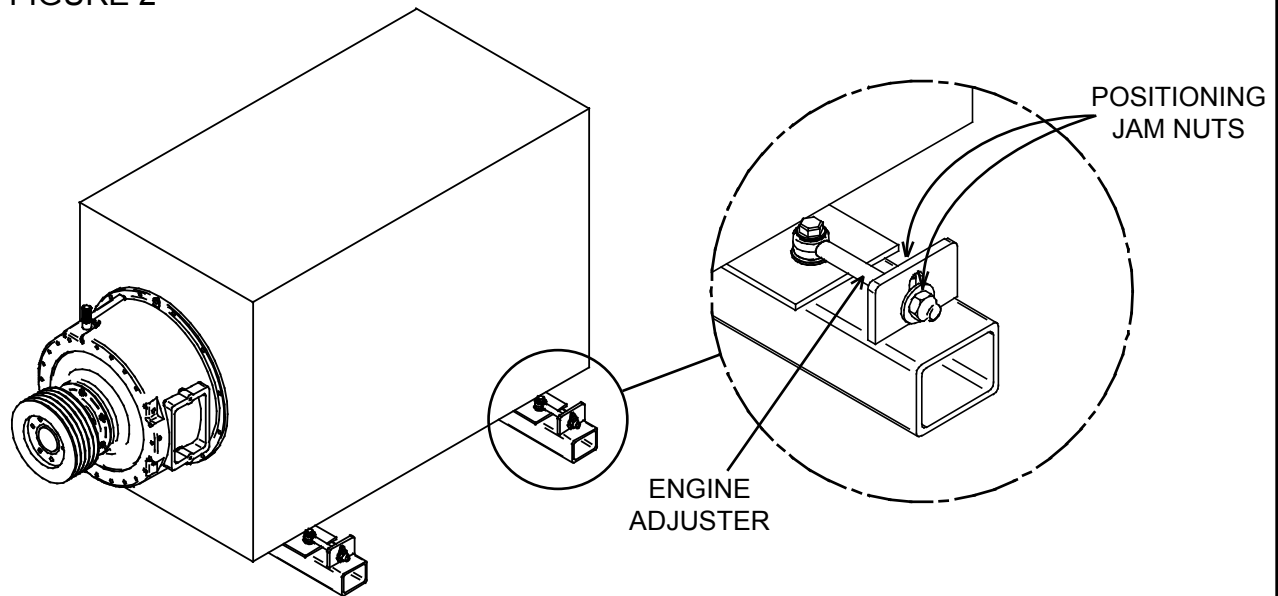
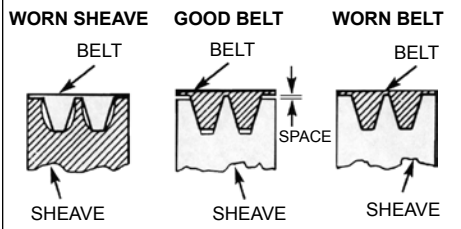


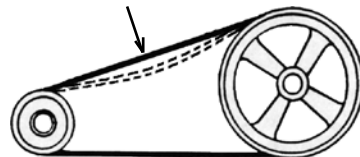
FIGURE 2



Worn or misaligned belts and sheaves in the power train causes belt slippage, thus power loss. Keep the power train working for you, not against you, by checking for needed adjustment or replacement.



Main Drive belts maximum of 1/4" deflection with 12 to 13 lbs. of force for a Model 65 (if equipped with a Honda engine: 9 to 10 lbs. of force).
 Main Drive belts maximum of 3/8" deflection with 10 to 12 lbs. of force for a Model 95.
 Pump Drive belts maximum of 1/4" deflection with 8 to 9 lbs. of force.

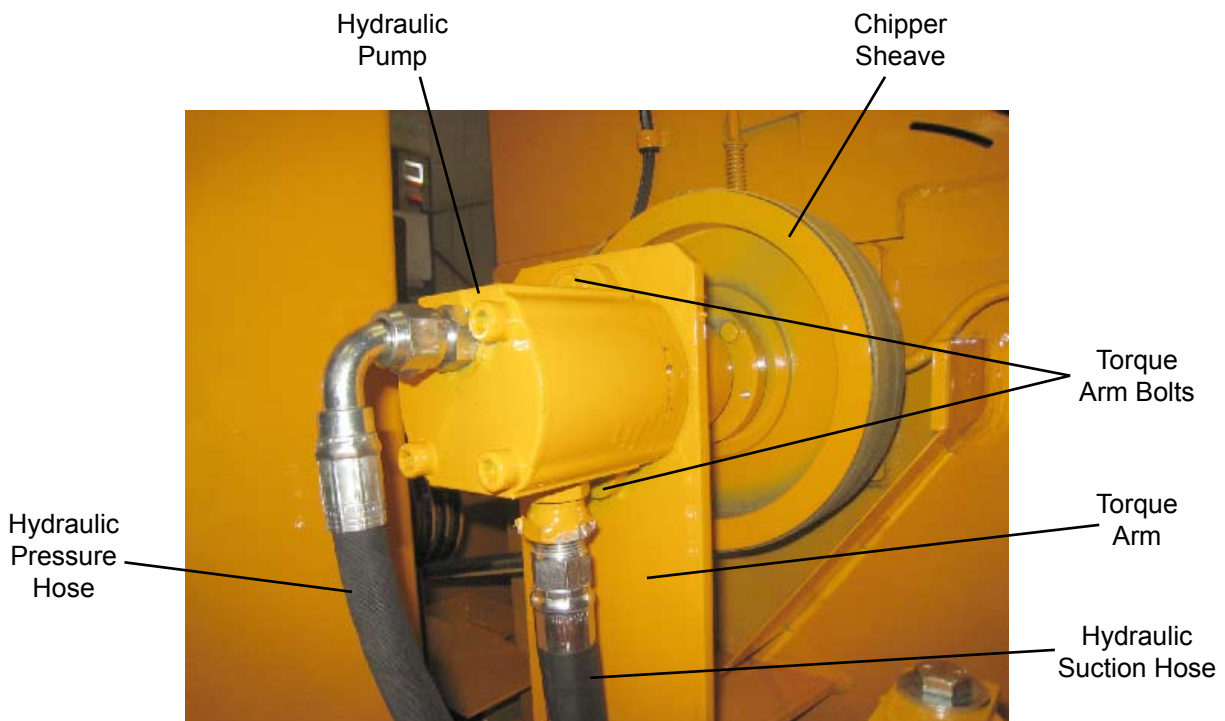


MODEL 65 DRIVE BELT REPLACEMENT

⚠ DANGER

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

- 1) Follow all pre-maintenance shut down procedures.
- 2) If machine has been running, allow time for the hydraulic oil to cool down before continuing.
- 3) Remove beltshield.
- 4) Remove the hydraulic suction hose from the hydraulic pump, the hose can be capped with a 3/4" NPT pipe cap. If the hose is not capped, keep the end of the hose higher than the hydraulic tank.
- 5) Remove the hydraulic pressure hose from the hydraulic pump, the hose can be capped with a #10 male JIC cap.
- 6) Remove the bolts that hold the torque arm to the hydraulic pump.
- 7) Remove the old drive belts and place the new drive belts on. The engine may have to be adjusted in order to do this.
- 8) Adjust the belts to the correct tension, see pages 52 - 53..
- 9) Bolt the torque arm to the hydraulic pump.
- 10) Reassemble both hydraulic hoses to the hydraulic pump.
- 11) Reinstall beltshield.
- 12) Check the hydraulic fluid level and fill to 7/8 full, if needed.
- 13) After running the machine for a few minutes, the hydraulic oil level will need to be checked again and filled to 7/8 full, if needed.
- 14) Check the hydraulic hoses to make sure they are tight and not leaking.
- 15) Remember new belts stretch and will need to be checked often, tighten if needed, see pages 52 - 53.
- 16) Resume normal operation.



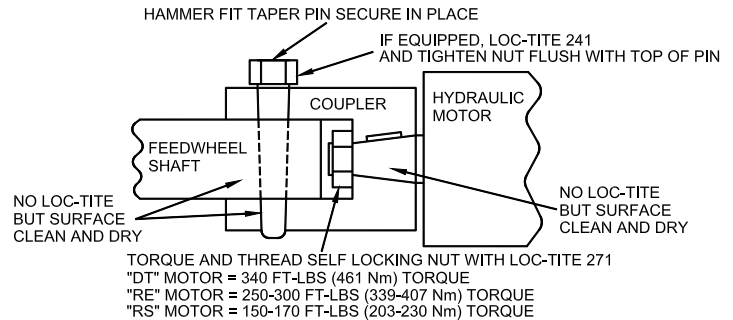
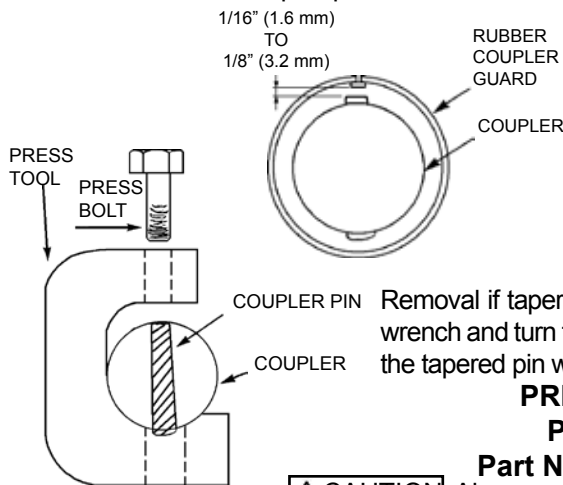
**PROPER PROCEDURE FOR INSTALLATION AND REMOVAL
OF J.B. COUPLERS AND TAPERED FEEDWHEEL MOTORS**

A. Proper Equipment Needed:

1. Feedwheel motor with tapered shaft.
2. 5/16" x 9/32" x 1 1/4" long key (900-3937-23) for "DT" motor.
5/16" x 9/32" x 15/16" long key (900-3934-06) for "RE" motor.
3/16" x 3/16" x 3/4" long key (900-3937-03) for "RS" motor.
3. Correct feedwheel shaft, coupler and taper pin ass'y
4. Loc-Tite 271 (red).
5. Loc-Tite 241 (blue).
6. Emery cloth and/or a file.
7. A degreaser agent.
8. Self locking nut.
9. Hammer.
10. Torque wrench and
1 5/8" socket for "DT" motor.
1 3/8" socket for "RE" motor.
1 3/16" socket for "RS" motor.
11. 1 1/16" hand wrench for "RE" motor.
7/8" hand wrench for "RS" motor.

B. Installation Procedure

1. Remove any sharp edges on the coupler bores or the motor shaft.
Example: Emery cloth or file for burrs on keyways or shafts.
2. Clean the coupler bores and motor shaft with a degreasing solvent.
3. Install the correct key in the feedwheel motor shaft.
4. Slide the coupler onto the motor shaft, making sure that the two mate tightly.
Example: The coupler does not rock or slop on the shaft.
5. Install the self locking nut with Loc-Tite 271 on the threads.
6. Tighten to the correct torque, 340 ft.-lbs. (461 Nm) for "DT" motor, 250-300 ft.-lbs. (339-407 Nm) for "RE" motor, & 150-170 ft.-lbs. (203-230 Nm) for "RS" motor.
7. Slightly tap with a hammer on the coupler face to insure proper seating.
8. Retorque self locking nut.
9. Deburr and degrease the feedwheel shaft.
10. Install the motor and coupler assembly onto the feedwheel shaft.
11. Install the correct tapered pin through the coupler and feedwheel shaft.
12. If coupler pin is threaded and is equipped with a nut, make sure the nut is flush with top of pin.
13. Hammer the pin into the coupler to secure the coupler and feedwheel shaft. If the pin is threaded and has a nut do not hammer the pin directly, use a piece of wood as a buffer.
14. If the tapered pin is equipped with a nut, put Loc-Tite 241 on the threads and then tighten nut flush with top of pin.



Removal if tapered pin is equipped with a nut to assist in pin removal: Use a hand wrench and turn the tapered pin nut clockwise, half a turn and then hit the small end of the tapered pin with a hammer and punch. Repeat this process until pin is removed.

PRESS TOOL FOR COUPLER PIN REMOVAL

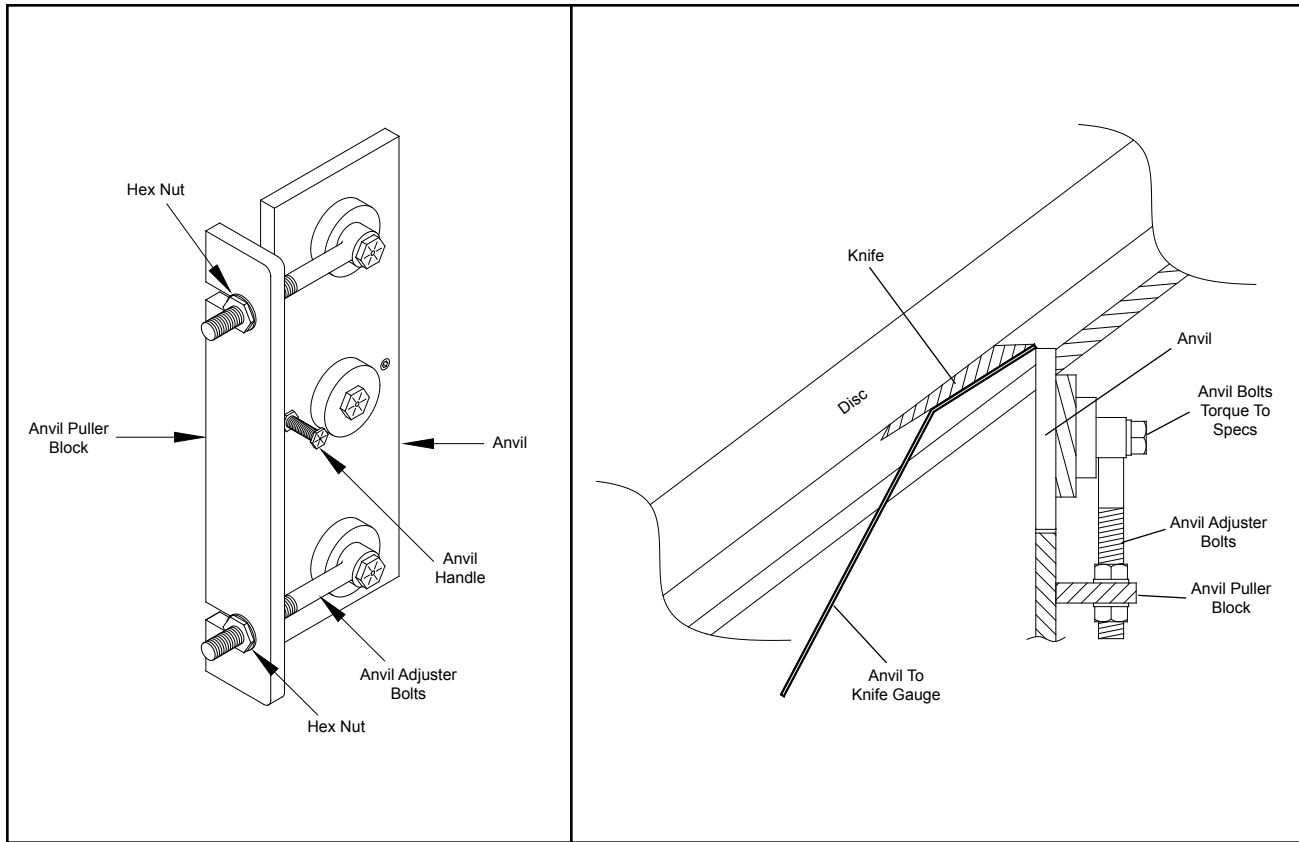
Part Number 981-0501-66 for "DT" Motor

Part Number 981-0501-61 for "RE" and "RS" Motor



Always wear proper safety equipment and take caution with tapered pin when attempting to remove. The use of this tool will assist in the removal of the tapered pin in the feedwheel coupler. Lubricate end of bolt and threads with grease. Position the press tool so that it cradles the coupler, with the large end of the tapered pin at the side opposite the press bolt. You may want to remove yoke springs to get easier access to coupler. Set the tool as described and hand tighten press bolt to snug tool against coupler. Make sure press bolt is set on small end of tapered pin, and that pin will go through hole in tool without interference. Use of a 1/2" impact wrench is recommended. Run impact on bolt to start pin removal, then usually a good hit with hammer on the end of bolt will knock out the pin. You may have to run impact on bolt and hit with hammer a few times to remove pin. Do not spend excessive time trying to remove the pin and coupler. If problems occur during pin and coupler removal, contact your nearest dealer or Bandit Industries.

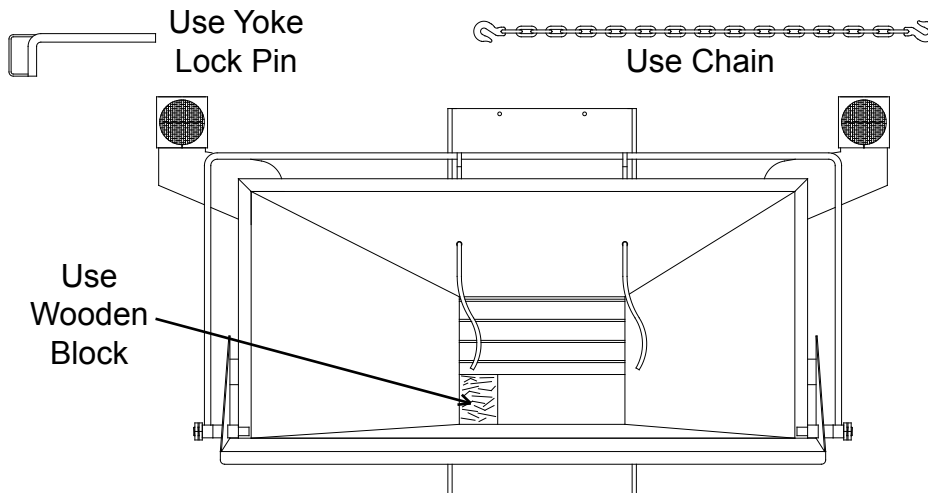
ANVIL ADJUSTMENT



⚠ DANGER

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

Before working inside the infeed hopper or under the top feedwheel remove the yoke springs from the top yoke, raise the yoke, install the yoke lock pin, safety chain the yoke in the raised position, and insert a wooden block to assist in holding the yoke in the raised position.



ANVIL ADJUSTMENT cont.

⚠ DANGER

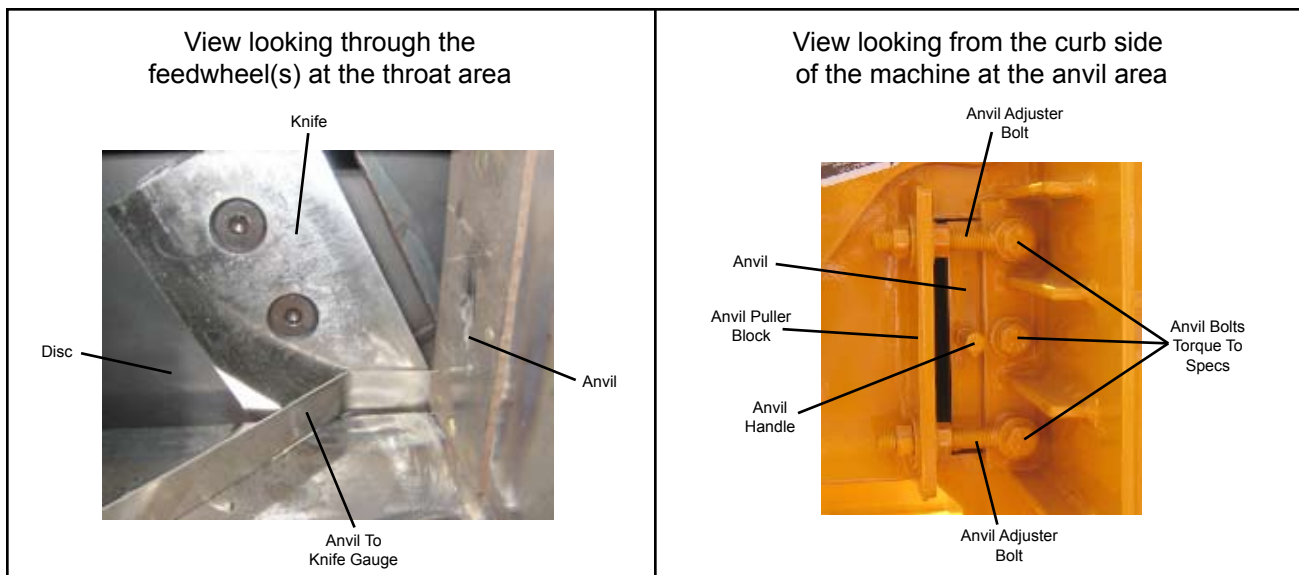
Do Not under any circumstance attempt to rotate the chipper disc while someone is inside the infeed hopper. They may become seriously injured, Do Not Do This!

CHECK THE ANVIL TO KNIFE CLEARANCE

1. This clearance should be checked on a weekly basis or as knives are changed. To check the anvil clearance, follow all pre-maintenance shut down procedures. Once all safety procedures are completed the anvil to knife clearance can be checked.
2. In order to check the clearance one person will need to climb into the infeed hopper. Use a feeler gauge or the anvil to knife gauge supplied by Bandit to check the clearance of the first knife to the anvil. Check the clearance at the top and bottom of the anvil.
3. Once that knife has been checked climb back out of the infeed hopper, remove the disc lock pin, and very carefully rotate the chipper disc so the other knives can be checked.
4. Once all knives have been checked adjust the anvil according to the closest knife. The anvil to knife clearance should be .045 to .065 inches (1.1 to 1.7 mm).
5. Set the closet knife to this distance.

ANVIL ADJUSTMENT PROCEDURE

1. To adjust the anvil first loosen two of the hex nuts on either the inside or outside of the anvil puller block. If the anvil needs to be adjusted closer to the disc, loosen the outside anvil adjuster hex nuts. If the anvil needs to be adjusted away from the disc, loosen the inside anvil adjuster hex nuts.
2. Loosen the anvil mounting bolts.
3. Once the components have been loosened, move the anvil to the correct clearance using the anvil adjuster bolts and hex nuts.
4. Once the knife is set to the correct clearance, .045 to .065 inches (1.1 to 1.7 mm), retighten all components.
5. The anvil handle can be removed if it is stopping the anvil from reaching the correct knife clearance. If removed keep the anvil handle for later use.
6. If the anvil is rotated or flipped to a new working edge, apply Loc-Tite 241 (blue) on the anvil handle and set screw.
7. Make sure bolts are torqued to their specific bolt torques refer to bolt torques on page 45.
8. Carefully rotate the chipper disc to make sure all the knives clear the anvil.



SERVICING / CHANGING FEEDWHEEL BEARING (WITH THE GRIP TIGHT BEARING BEHIND FEEDWHEEL MOTOR)

Your Bandit Chipper maybe equipped with a tapered lock style (Grip Tight) feedwheel bearing on the hydraulic motor side of the feedwheel and a conventional (set screw) style on the opposite side. With the Grip Tight bearing this gives a very positive locking system to the feedwheel shaft. The set screws on both bearings should still be checked as part of normal maintenance.

A few simple rules and installation instructions must be followed if the bearings ever need to be replaced or removed during service.

The machine is set up with one set screw bearing and one Grip Tight bearing because the one Grip Tight bearing is all that is needed to securely hold the feedwheel shaft (along with the set screws on the opposite bearing). This also makes for very easy assembly. **When installing the bearing it is very important to install and lock the Grip Tight bearing first with the set screw bearing done after.** This is to keep the bearings from being put into a side load which will lead to premature failure.

Installation procedure:

- 1) Clean the feedwheel shaft of all debris, use a degreaser.
- 2) Install both feedwheel bearings on the feedwheel shaft with the Grip Tight bearing on the hydraulic motor side and the set screw bearing on the opposite side. **Do not lock the bearings on the shaft at this time, allow the feedwheel to shift freely for installation.**
- 3) Position the feedwheel in the yoke mount and install all (8) feedwheel bearing bolts with a thread locking compound applied. These are completely tightened and torqued at this time (refer to bolt torque chart).
- 4) The feedwheel then needs to be centered in the yoke and then it must be off set 3/16" (4.8 mm) towards the set screw bearing side (away from the hydraulic motor). The weight of the feedwheel needs to be taken off the bearings also.
- 5) First the Grip Tight bearing lock nut must be tightened by hand as tight as possible (in a clock wise direction). This is the zero reference point. Scribe a line on the lock nut above the adapter slot.
- 6) Using a spanner wrench or drift pin and hammer, lock the bearing to the shaft by tightening the lock nut in a clock wise direction. Tighten 3/4 to 1 full turn (you may need to block the feedwheel from turning at this time). Now you can tighten the set screws on the Grip Tight bearing. Note: the set screw is only to be tightened to 25 in.-lbs. (2 ft.-lbs.) (2.7 Nm).
- 7) Apply a thread locking compound on the set screws of the set screw bearing and torque to 20 ft.-lbs (27 Nm).

Grip Tight Bearing



Set Screw Bearing



MAINTENANCE

PROCEDURE FOR UNPLUGGING YOUR CHIPPER

If your chipper is plugging, it is usually caused by allowing the engine to drop below required R.P.M.'s. This can be resolved by simply shutting the feedwheel(s) off when the engine begins to lug down. Operating the engine at speeds lower than full R.P.M.'s causes your chipper to plug. **Always run the chipper at full engine speed.** If your chipper is equipped with the optional autofeed feature, make sure it is set correctly. The setting for the low R.P.M. stop must be high enough not to allow the chipper discharge to plug. Dull chipper knives also contribute to chipper plugging. Dull knives can create slivers and chunks, causing the engine to lug excessively. Both of the aforementioned conditions cause a plugging situation.

STEPS TO FOLLOW WHEN UNPLUGGING YOUR CHIPPER

1. Before attempting any type of maintenance disengage clutch, turn off engine, wait for the disc/drum to come to a complete stop, install the disc/drum lock pin, disconnect battery, and make sure the ignition key is in your possession.
2. Make sure the chipper disc/drum is **NOT** turning and then open the hinged portion of the chipper hood.
3. Using gloved hands and some type of raking tool, dig the chips out of the chipper housing.
4. If the discharge chute is plugged, use a raking tool to pull the majority of chips out of the open outlet end of the chute. Then, two people must remove the chute. Do not attempt this with one person, because the chute can fall causing injury. If used properly, a hoist can be used to assist in the removal of the chute.
5. Never allow one person to turn the chipper disc/drum when someone else is working inside the chipper housing. More than likely, the chipper disc/drum will turn hard then loosen causing it to turn faster. If another person is anywhere near the chipper disc/drum, they may be injured.
6. Never turn the chipper disc/drum by hand. Always use a pry bar or wood bar. This will prevent the person turning the disc/drum from being injured should the disc/drum break loose.
7. Reinstall the discharge chute, mount securely and point it in a safe direction away from anything.
8. Never leave the chipper hood open and try to start the engine in order to engage the chipper disc/drum to blow chips out of the housing, this is very hard on the P.T.O. of the chipper and may burn clutch plates. Also, the flying debris is very dangerous. An exposed chipper disc/drum turning very fast creates an unsafe condition. In other words, **DO NOT** start the chipper with the hood open because it is just too dangerous.
9. Once the disc/drum turns freely, close the chipper hood, insert the hood pin, install the padlock in the hood pin, reinstall the chipper hood engine disable plug, make sure the spring lock for hood pin springs back to the correct operating position on disc chippers, start engine, properly engage clutch and throttle to full speed. Insert a small branch into the feedwheel(s). If the chips discharge properly, the chipper is clear and normal operation may resume.

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 surface. This will help 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.

**DANGER**

LOCKOUT ALL ENERGY SOURCES BEFORE SERVICING OR REMOVING GUARDS OR HOODS!








1. Shut off engine/motor. Key in pocket.
2. Disengage pto/clutch.
3. Wait for cutter disc/drum to come to a **COMPLETE STOP** (takes at least several minutes).
4. Install disc/drum lock pin.
5. Loader arm (if equipped) securely on ground and hydraulic pressure released.



6. Unplug engine disable plug-in.
7. Remove padlock from hood pin.
8. Press down and hold hood spring lock pin.
9. Retract hood pin.

DO NOT RESTART UNTIL ALL GUARDS AND HOODS ARE SECURELY AND PROPERLY REINSTALLED.

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 7" diameter, 10" diameter, and 12 1/4" 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
2200 LBS.	7" X 1 1/4"	Electric	.030" (.8 mm)	9 TO 18
2200 LBS.	7" X 1 3/4"	Hydraulic	.030" (.8 mm)	6 TO 13
3500 LBS.	10" X 2.25"	Elec. or Hyd.	.040" (1 mm)	10 TO 16
7000 LBS.	12 1/4" X 2.5"	Elec. or Hyd.	.040" (1 mm)	7 TO 13

For additional brake adjustment procedures consult the axle manufacturer manual.

HYDRAULIC SECTION

⚠ WARNING

DO NOT GO NEAR HYDRAULIC LEAKS!

High pressure oil easily punctures skin causing serious injury, gangrene, or death. If injured, seek emergency medical help. Immediate surgery is required to remove oil. DO NOT use fingers or skin to check for leaks. Lower load or relieve hydraulic pressure before loosening fittings.

⚠ 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

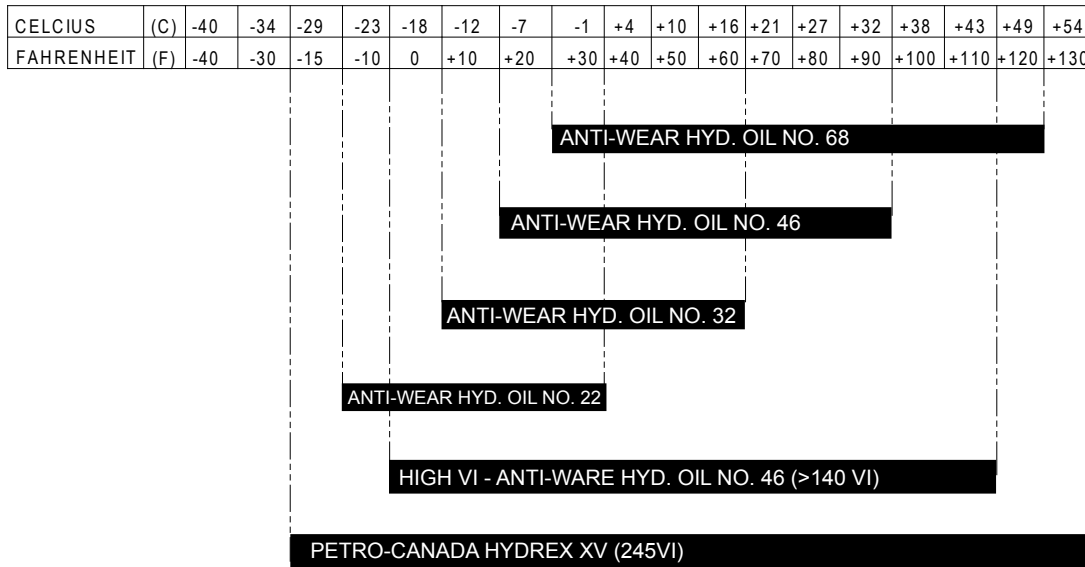
This machine is equipped with “Petro-Canada Hydrex XV” hydraulic fluid. It is recommended to replace with the same. “Petro-Canada Hydrex XV” is an all season hydraulic fluid. This is a premium performance, long life anti-wear, hydraulic fluid, designed for all season use in heavy duty hydraulic systems. “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.



Note: 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 fluid engagement clutch's (PTO's) have their own lubrication requirements. Consult their manufactures manual for that information.

MODEL 65
TYPICAL HYDRAULIC RELIEF PRESSURE SETTINGS
TYPICAL HYDRAULIC FLOWS AND RPM SETTINGS
(Approximate, For Reference Only, Engine At Full RPM)

Equipment Model	65 2-Knife	65 3-Knife	65 PTO 2-Knife 540 RPM	65 PTO 3-Knife 540 RPM	65 2-Knife Dual Feedwheels	65 3-Knife Dual Feedwheels
Pump GPM (LPM)	3.25 (12.3)	4.75 (18.0)	3.0 (11.4)	4.3 (16.3)	5.5 (20.8)	8.2 (31.0)
Top Feedwheel GPM (LPM)	3.25 (12.3)	4.75 (18.0)	3.0 (11.4)	4.3 (16.3)	2.75 (10.4)	4.1 (15.5)
Bottom Feedwheel GPM (LPM)	N/A	N/A	N/A	N/A	2.75 (10.4)	4.1 (15.5)
Feedwheel RPM	30-31	44-45	27-28	40-41	30-31	38-39
If Equipped Main Relief PSI (bar)	1800 (124)	1800 (124)	1800 (124)	1800 (124)	1800 (124)	1800 (124)
Feed Relief PSI (bar)	1800 (124)	1800 (124)	1800 (124)	1800 (124)	1800 (124)	1800 (124)
Chip Box Cylinder PSI (bar)	2500 (172)	2500 (172)	N/A	N/A	N/A	N/A

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.

MODEL 95

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

Equipment Model	95 2-Knife	95 3-Knife	95 PTO 2-Knife 540 RPM	95 PTO 2-Knife 1000 RPM	95 PTO 3-Knife 540 RPM	95 PTO 3-Knife 1000 RPM
Pump GPM (LPM)	4.5 (17.0)	7.5 (28.4)	3.5 (13.2)	3.5 (13.2)	4.7 (17.8)	4.7 (17.8)
Feedwheel GPM (LPM)	4.5 (17.0)	7.5 (28.4)	3.5 (13.2)	3.5 (13.2)	4.7 (17.8)	4.7 (17.8)
Feedwheel RPM	34-35	52-53	23-24	23-24	31-32	31-32
(If Equipped) Main Relief PSI (bar)	2000 (138)	2000 (138)	2000 (138)	2000 (138)	2000 (138)	2000 (138)
Feed Relief PSI (bar)	2000 (138)	2000 (138)	2000 (138)	2000 (138)	2000 (138)	2000 (138)
Yoke Relief PSI (bar)	800 (55)	800 (55)	800 (55)	800 (55)	800 (55)	800 (55)
Chip Box Cylinder PSI (bar)	2500 (172)	2500 (172)	N/A	N/A	N/A	N/A
Winch Relief PSI (bar)	2200 (152)	2200 (152)	2200 (152)	2200 (152)	2200 (152)	2200 (152)
Disch. Rotate PSI (bar)	500-800 (34-55)	500-800 (34-55)	500-800 (34-55)	500-800 (34-55)	500-800 (34-55)	500-800 (34-55)
Disch. Flipper PSI (bar)	500-800 (34-55)	500-800 (34-55)	500-800 (34-55)	500-800 (34-55)	500-800 (34-55)	500-800 (34-55)
Tongue Jack PSI (bar)	2200 (152)	2200 (152)	N/A	N/A	N/A	N/A

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 feedwheel relief valve settings beyond specified PSI (bar). This will cause damage to hydraulic components. Do not set any other hydraulic component past its 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 62 - 63 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 chipper 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.

- Only use the optional adjustable flow control when chipping large diameter trees. Do not leave the speed adjustment partially open for long periods of time. This will cause excessive heat to the hydraulic system! Excessive heat will cause low feedwheel power and premature failure of all hydraulic components. Always operate system at full oil flow unless chipping large diameter trees.

- Do not close the optional hydraulic shut-off valve for more than 3 to 4 seconds. Hydraulic shut-off valve handle must be completely turned on (in line with hose) at all times unless checking hydraulic pressure. 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.

HYDRAULIC COMPONENTS

Feedwheel hydraulic motor(s):

These hydraulic motor(s) are attached to the feedwheel(s) by a tapered feedwheel motor connection or by a clamp style connection.

Hydraulic pump:

The hydraulic pump could be bolted directly to the engine, or may be driven by a sheave/belt combination off of the chipper shaft.

Suction strainer(s):

This strainer(s) stops contaminants from reaching the hydraulic pump. The suction strainer(s) should be replaced at least once yearly or every 2000 hours.

Hydraulic tank:

This tank must be kept clean and filled minimum 7/8 full. Clean tank yearly.

Filter:

This spin-on cartridge filter must be replaced per maintenance schedule.

Filter mount:

The filter is tightened on the Filter Mount.

Feedwheel valve:

This valve is actuated by the control bar. The valve actuates the feedwheel for forward, off or reverse. It may also contain an adjustable relief valve.

Bandit

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 disc/drum to come to a complete stop, switch the battery disconnect to the off position, 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

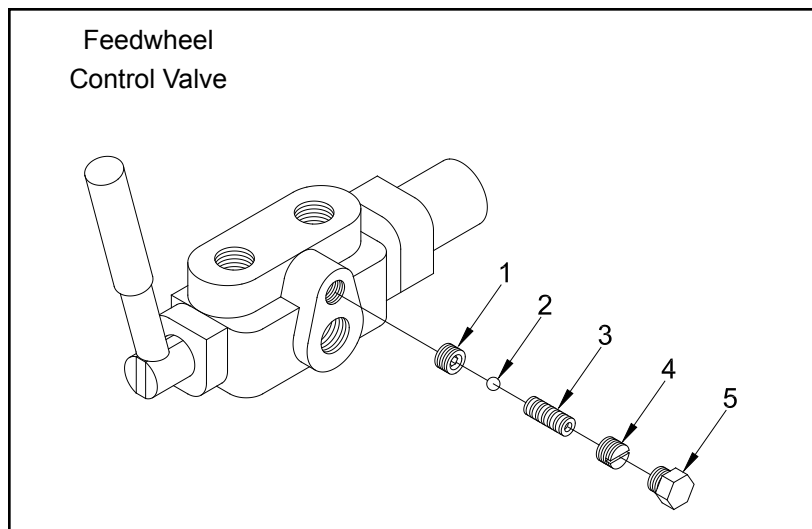
When returning hydraulic components for warranty make sure to box up all warranted parts to avoid additional damage while shipping. **Do not disassemble any hydraulic components which are to be warranted.** Anything which has been disassembled or tampered with will not be warranted. Items being returned 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.

HYDRAULIC SECTION

THE BANDIT CHIPPER IS EQUIPPED WITH ONE OF THREE POSSIBLE MAIN RELIEF HYDRAULIC PRESSURE ADJUSTMENT PROCEDURES

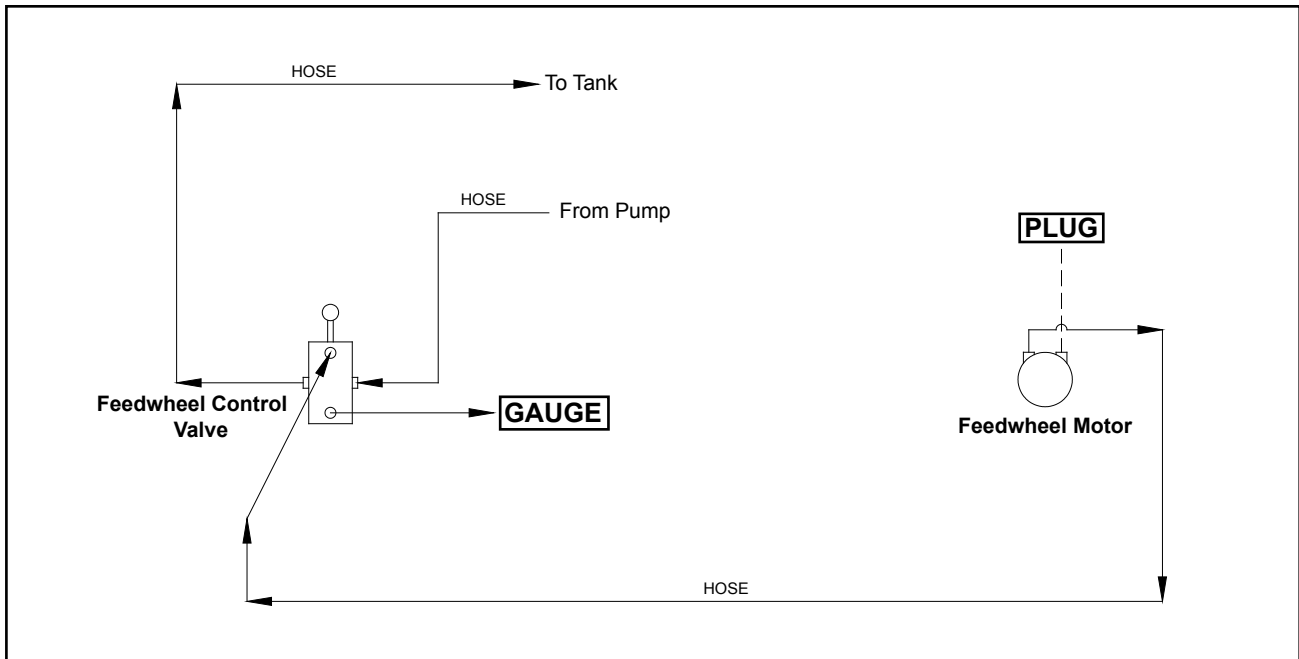
PROCEDURE 1 FOR MODELS 65/95 WITH NO OPTIONS

The relief valve is typically located internally in the control valve. Do not adjust this relief valve above 2500 PSI (172 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 feedwheel power. The relief as well as hydraulic oil, and screen must be kept clean.



1. **VALVE SEAT:**
The springs pushes the relief valve ball against it, until pressure builds.
2. **POPPIT VALVE:**
This ball opens and closes to relieve excess pressure on hydraulic system.
3. **RELIEF SPRING:**
This spring tensions the amount of pressure required to open the relief valve ball. This spring weakens and must be checked and/or readjusted every month for best performance.
4. **SLOTTED SET SCREW:**
Turn clockwise to increase pressure, but do not surpass maximum of the specified PSI (bar).
5. **HEX HEAD PLUG:**
Remove to access the relief valve.

YOUR BANDIT CHIPPER IS EQUIPPED WITH ONE OF THREE HYDRAULIC PRESSURE ADJUSTMENT PROCEDURE OPTIONS.



⚠ WARNING

PROCEDURE 1 FOR MODELS 65/95 WITH NO OPTIONS cont.
CHECKING AND ADJUSTING RELIEF VALVE PRESSURE

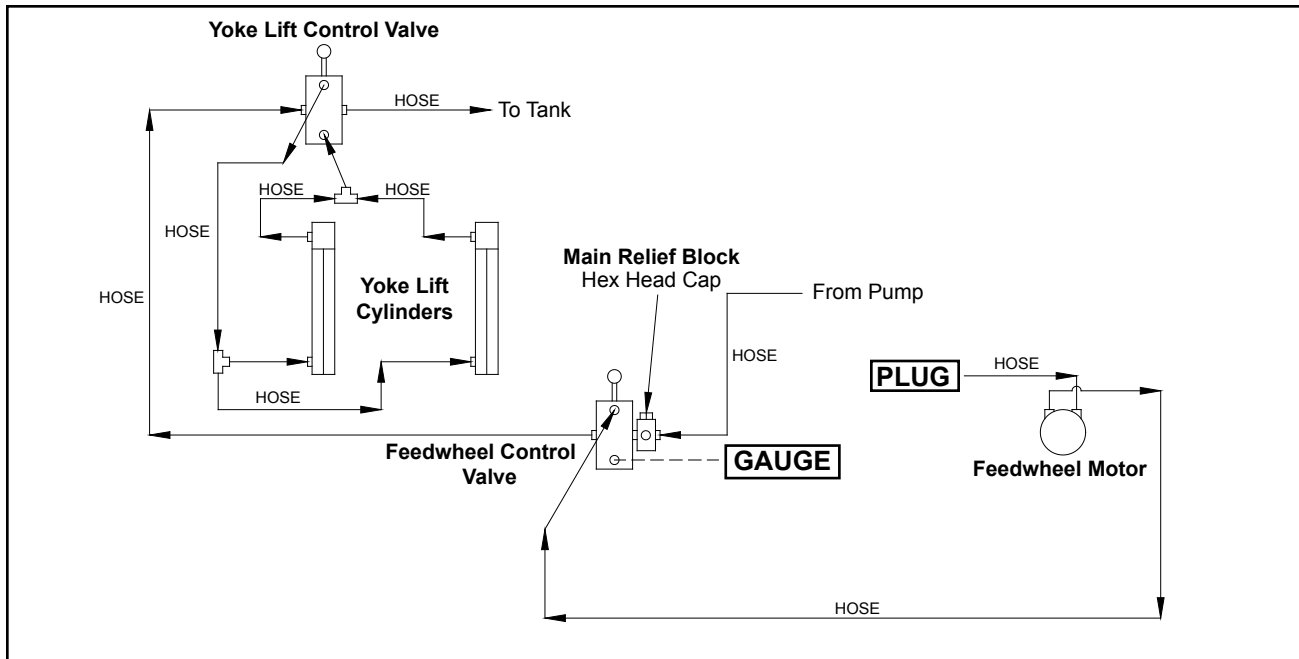
Before attempting any hydraulic pressure settings, make sure engine is shut off, engine key removed and in your possession, hydraulic oil is clean, hydraulic tank is 7/8 full, and the machine has been pre-run to warm the hydraulic oil. To correctly check relief valve pressure, gauge MUST be installed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

1. First put the control handle in the off position.
2. Disconnect the hydraulic hose going from the control valve to the feedwheel motor at the feedwheel control valve end.
3. Leave all other hydraulic hoses connected.
4. Install pressure gauge in port on the control valve from which the hose was disconnected and plug the end of the hose.
5. Start engine with the control handle in the off position.
6. Adjust engine to full throttle.
7. Engage control handle to the normal operating position to activate a reading on the pressure gauge.
8. Pressure gauge should read maximum specified PSI (bar).
ONLY ENGAGE CONTROL HANDLE FOR 4-5 SECONDS TO SET PRESSURE OR YOU MAY DAMAGE HYDRAULICS.
9. Readjust relief pressure setting if needed, if not needed, shut off engine and remove plug and gauge. Reassemble the hose to the control valve.
10. Check for hydraulic leaks.
11. Relief valve pressure should be checked and/or readjusted every month for best performance.

MAINTAIN FEEDWHEEL HYDRAULIC PRESSURE AT SPECIFIED PSI (bar).

Bandit

YOUR BANDIT CHIPPER IS EQUIPPED WITH ONE OF THREE HYDRAULIC PRESSURE ADJUSTMENT PROCEDURE OPTIONS.



⚠ WARNING

PROCEDURE 2 FOR MODELS 65/95 WITH OPTIONS
(SHOWN WITH LIFT CYLINDER OPTION)

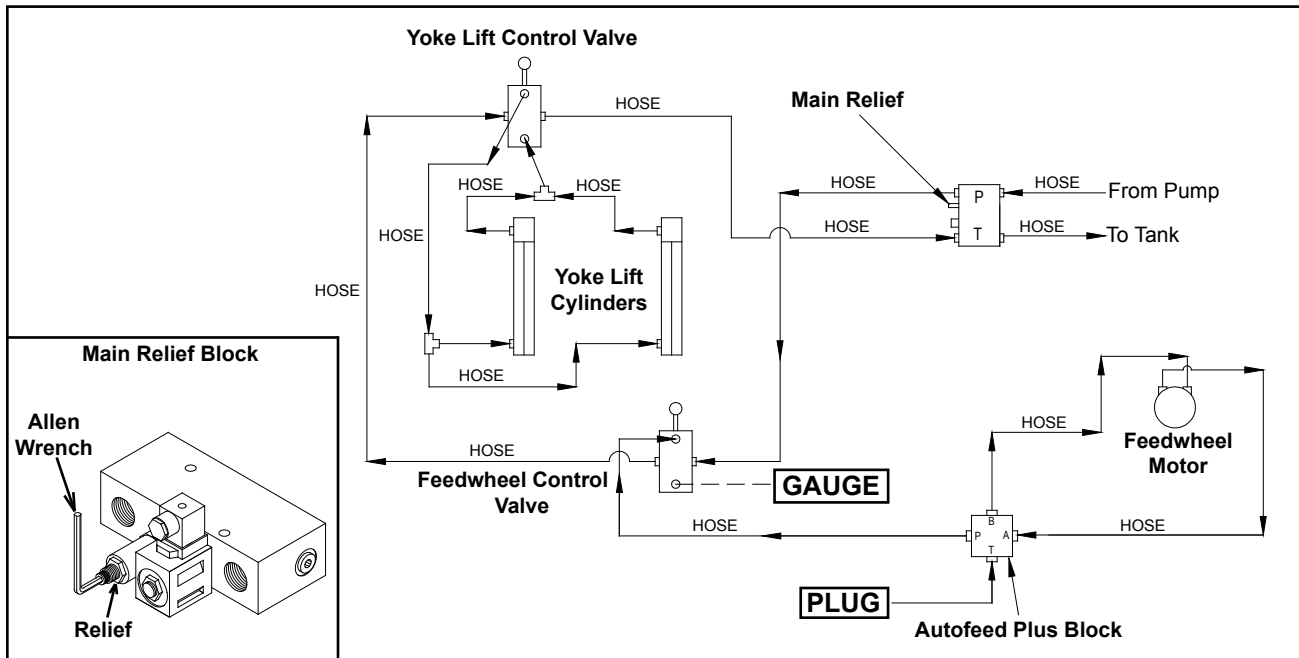
Before attempting any hydraulic pressure settings, make sure engine is shut off, engine key removed and in your possession, hydraulic oil is clean, hydraulic tank is 7/8 full, and the machine has been pre-run to warm the hydraulic oil. To correctly check relief valve pressure, gauge MUST be installed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

1. First put the control handle in the off position.
2. Disconnect the hydraulic hose going from the control valve to the feedwheel motor at the feedwheel control valve end.
3. Leave all other hydraulic hoses connected.
4. Install pressure gauge in port on feedwheel control valve where you disconnected the hose and plug the end of the hose.
5. Start engine with the control handle in the off position.
6. Adjust engine to full throttle.
7. Engage control handle to the normal operating position to activate a reading on the pressure gauge.
8. Pressure gauge should read maximum specified PSI (bar).
ONLY ENGAGE CONTROL HANDLE FOR 4-5 SECONDS TO SET PRESSURE OR YOU MAY DAMAGE HYDRAULICS.
9. Readjust relief pressure setting by first removing hex head cap, then loosen the jam nut, finally use an allen wrench to adjust pressure setting, if needed. If not needed, shut off engine and remove plug and gauge.
10. Reassemble hose from feedwheel motor to feedwheel control valve.
11. Check for hydraulic leaks.
12. Relief valve pressure should be checked and/or readjusted every month for best performance.

MAINTAIN FEEDWHEEL HYDRAULIC PRESSURE AT SPECIFIED PSI (bar).

Bandit

YOUR BANDIT CHIPPER IS EQUIPPED WITH ONE OF THREE HYDRAULIC PRESSURE ADJUSTMENT PROCEDURE OPTIONS.



⚠ WARNING

PROCEDURE 3 FOR MODELS 65/95 WITH OPTIONS
(SHOWN AUTOFEED PLUS AND LIFT CYLINDER OPTIONS COMBINED)

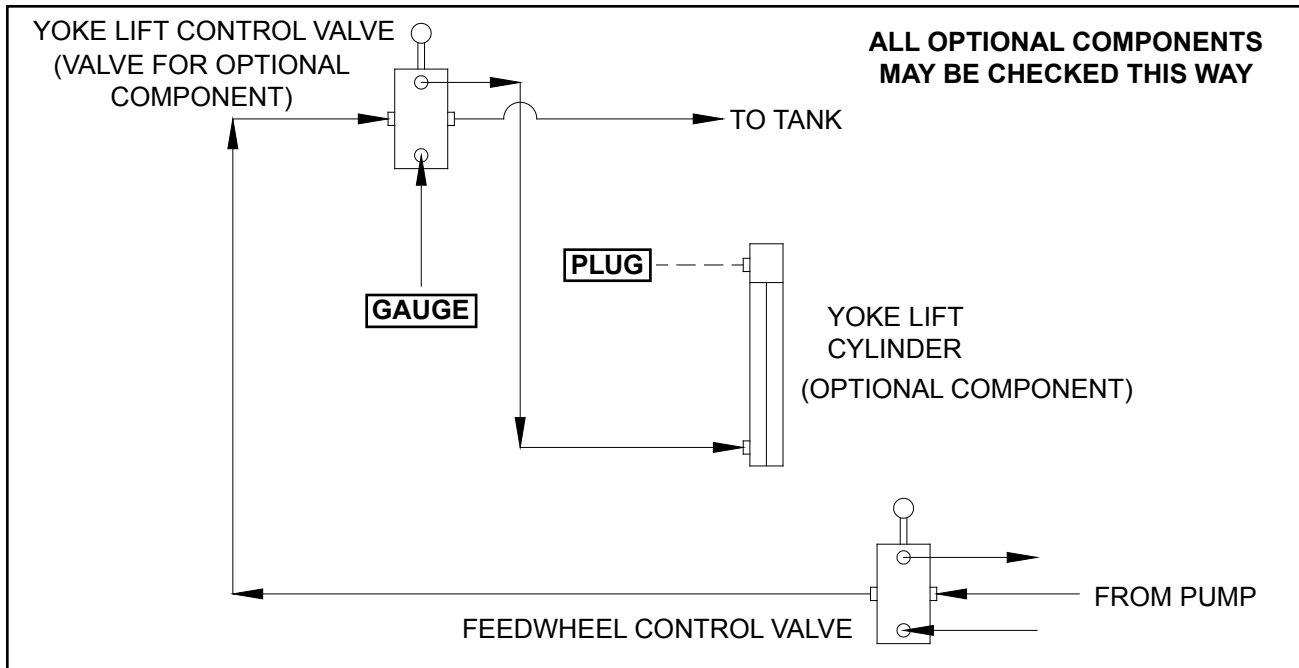
Before attempting any hydraulic pressure settings, make sure engine is shut off, engine key removed and in your possession, hydraulic oil is clean, hydraulic tank is 7/8 full, and the machine has been pre-run to warm the hydraulic oil. To correctly check relief valve pressure, gauge MUST be installed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

1. First put the control handle in the off position.
2. Disconnect hydraulic hose going from autofeed plus block to feedwheel control valve at the feedwheel control valve end.
3. Leave all other hydraulic hoses connected.
4. Install pressure gauge in port on feedwheel control valve where you disconnected the hose and plug the end of the hose.
5. Start engine with the control handle in the off position.
6. Adjust engine to full throttle.
7. Engage control handle to the normal operating position to activate a reading on the pressure gauge.
8. Pressure gauge should read maximum specified PSI (bar).
ONLY ENGAGE CONTROL HANDLE FOR 4-5 SECONDS TO SET PRESSURE OR YOU MAY DAMAGE HYDRAULICS.
9. Locate relief next to autofeed solenoid, loosen jam nut, use an allen wrench to readjust relief pressure setting if needed, and then retighten jam nut.
10. Reassemble hose from autofeed plus block to feedwheel control valve.
11. Check for hydraulic leaks.
12. Relief valve pressure should be checked and/or readjusted every month for best performance.

MAINTAIN FEEDWHEEL HYDRAULIC PRESSURE AT SPECIFIED PSI (bar).

Bandit

PROCEDURE FOR CHECKING OPTIONAL HYDRAULIC COMPONENTS



⚠ WARNING

MODELS 65/95 PROCEDURE

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.

1. First put control handle in off position.
2. Disconnect hose coming out of the port farthest from the handle of the control valve from the optional motor or cylinder, and plug the hose.
3. Leave all other hydraulic hoses connected.
4. Install pressure gauge in the valve port which had the hose of the optional motor or cylinder disconnected.
5. Start engine with the control handle in the off position.
6. Adjust engine to full throttle.
7. Only operate the valve for that component to activate pressure gauge. Pressure gauge should read the maximum specified PSI (bar) for that component, see pages 64 - 65.
ONLY OPERATE VALVE FOR 4-5 SECONDS TO SET PRESSURE OR YOU MAY DAMAGE HYDRAULICS.
8. Readjust relief pressure setting if needed, if not needed, shut off engine and remove plug and pressure gauge. Reassemble control valve to optional motor or cylinder.
9. Check for hydraulic leaks.
10. Relief valve pressure should be checked and/or readjusted every month for best performance.

MAINTAIN HYDRAULIC PRESSURE AT THE SPECIFIED PSI (bar).

HYDRAULIC SYSTEM TROUBLE SHOOTING

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

PROBLEM	POSSIBLE CAUSE	SOLUTION
Feedwheel(s) turn at normal speed but does not chip wood properly	<ol style="list-style-type: none"> 1. Dull Knives 2. Worn feed teeth 3. Low feedwheel relief valve setting 4. Pump is worn 5. Motor is weak 6. Feedwheel springs too loose 7. Clutch / belts out of adjustment 8. Engine not running at full rpms 	<ol style="list-style-type: none"> 1. Replace knives 2. Replace 3. Readjust to specified PSI (bar) 4. Replace 5. Replace 6. Adjust 7. Adjust 8. Adjust
Feedwheel(s) slow or stop when feeding	<ol style="list-style-type: none"> 1. Dull knives 2. Relief valve is worn or dirty 3. Pump is worn 4. Motor is worn 5. Feedwheel springs too tight 6. Feedwheel slide box sticking or hanging up 	<ol style="list-style-type: none"> 1. Replace knives 2. Clean, reset or replace 3. Replace 4. Replace 5. Adjust 6. Lubricate
Feedwheel(s) turn slowly or not at all	<ol style="list-style-type: none"> 1. Relief valve stuck open 2. Worn hydraulic motor 3. Pump is worn 4. Feedwheel relief pressure off 5. Pinched or damaged hydraulic hose 6. Feedwheel valve (control valve) worn & leaking internally 7. Low hydraulic oil level 8. Plugged oil screen 9. Binding such as worn bearings, etc. 10. Control lever improperly shifting valve 	<ol style="list-style-type: none"> 1. Clean or replace 2. Replace 3. Replace 4. Reset to specified PSI (bar) 5. Replace 6. Replace 7. Fill 7/8 full minimum 8. Replace 9. Repair 10. Readjust, valve must open completely
Hydraulic oil very hot, causing system to operate slowly	<ol style="list-style-type: none"> 1. Dull knives 2. Low oil level 3. Pump is worn 4. Relief valve stuck open or opens easily 5. Damaged hose 6. Oil suction screen or filter plugged 7. Oil cooler plugged, if equipped 8. Motor is worn 9. Binding 10. Operator running oil over relief too much 11. Flow control is on for too long 	<ol style="list-style-type: none"> 1. Replace knives 2. Fill 7/8 full minimum 3. Replace 4. Clean, reset or replace 5. Replace 6. Clean or replace 7. Clean 8. Replace 9. Repair 10. Don't 11. Open flow control

MAINTAIN FEEDWHEEL HYDRAULIC PRESSURE AT SPECIFIED PSI (bar).

Follow typical hydraulic flow and relief settings on pages 64 - 72.

Follow proper hydraulic oil requirements on pages 62 - 63.

Bandit

CORRECTING HYDRAULIC PROBLEMS

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

COMPONENT	PROCEDURE
Checking relief valve setting	Refer to the hydraulic pressure adjustment procedure section of the manual to find the correct procedure for checking relief valve setting. (pgs. 68 - 72)
Adjusting relief valve setting	Refer to the hydraulic pressure adjustment procedure section of the manual to find the correct procedure for adjusting relief valve pressure settings. (pgs. 68 - 72)
Cleaning relief valve (with engine shut off)	<ol style="list-style-type: none"> 1. Remove plug from feedwheel valve (control valve), see illustration of relief valve components. (pg. 68) 2. Unscrew slotted set screw completely out of the valve. 3. Remove poppit spring. 4. Remove poppit ball. 5. Clean all parts, inspect for damage and blow out relief hole with air. 6. Reassemble, set and maintain feedwheel hydraulic pressure at specified PSI (bar).
Checking for defective pump	<ol style="list-style-type: none"> 1. See pages 76 - 77 on how to check a hydraulic pump.
Checking for defective motor	<ol style="list-style-type: none"> 1. If everything checks out as correct, it may be time to check the hydraulic motor. 2. If your machine has Live Hydraulics, see page 75 on how to check a hydraulic motor. 3. If your machine does not have Live Hydraulics, contact your local dealer or Bandit Industries for instructions.

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.

MAINTAIN FEEDWHEEL HYDRAULIC PRESSURE AT SPECIFIED PSI (bar).

Follow typical hydraulic flow and relief settings on pages 64 - 72.

Follow proper hydraulic oil requirements on pages 62 - 63.

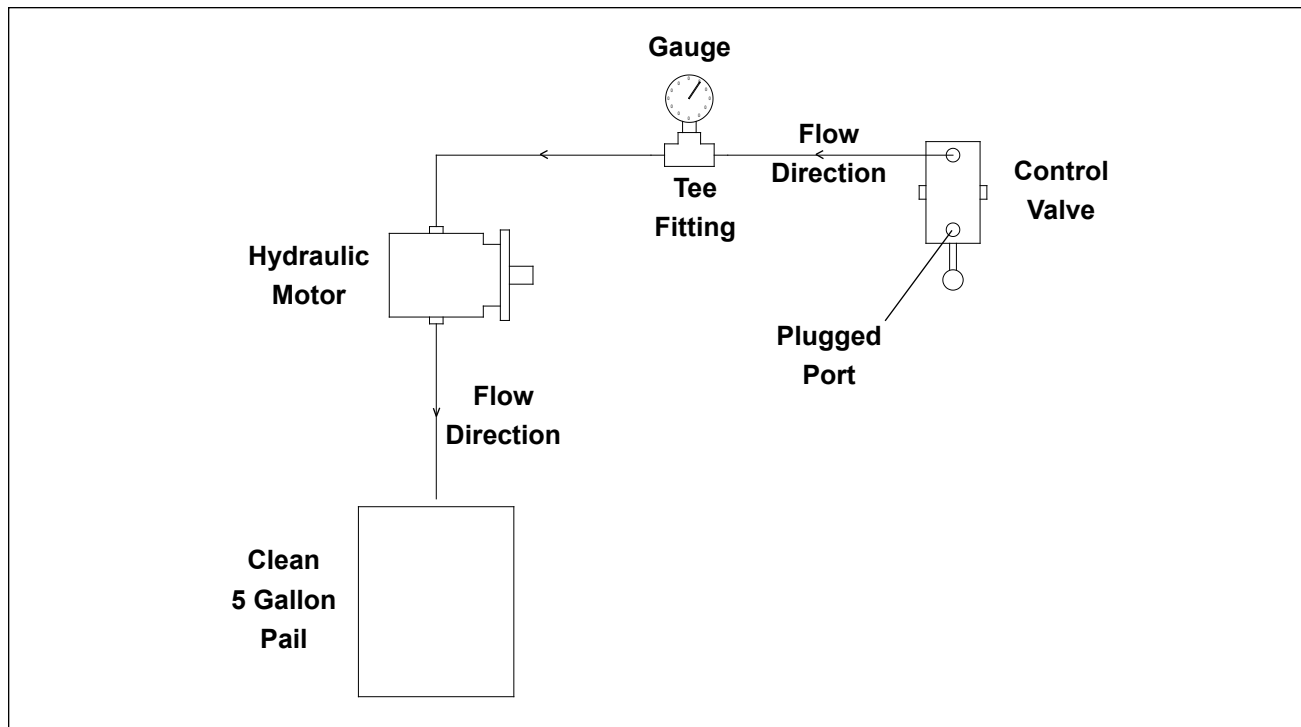
Bandit

HYDRAULIC MOTOR CHECK OUT

HYDRAULIC MOTOR CHECK OUT FOR MACHINES WITH LIVE HYDRAULICS

To check out a hydraulic motor the mechanic will need a pressure gauge capable of reading 3000 p.s.i. (207 bar), a Tee fitting to install in the control valve, a plug fitting to install in the control or relief valve and a clean 5 gallon (19L) pail.

- 1) The following instructions are for machines with Live Hydraulics, for machines without Live Hydraulics contact your local dealer or Bandit Industries.
- 2) In order to check out a hydraulic motor, it is necessary to mechanically stop the motor from turning while under load. The hydraulic pump needs to be driven without turning the chipper disc/drum (Live Hydraulics). Feed a reasonably large size log into the machine until it contacts the stationary disc/drum. This should stall the hydraulic motor(s). It may also be necessary to apply down pressure by operating the yoke control valve (if equipped).
- 3) With the feedwheel(s) mechanically locked as described, turn the engine off and keep the key in your possession. If the hydraulic motor does not have a case drain, unhook the hose going from the hydraulic motor back to the control valve at the valve, some machines will be equipped with a flow divider between the hydraulic motor and the control valve. If the hydraulic motor has a case drain, unhook the case drain hose that goes to the relief valve at the valve.
- 4) Place the end of the hose in a clean 5 gallon (19L) pail.
- 5) Plug the open port of the control valve or main relief valve.
- 6) Unhook the other hose in the control valve and install a Tee fitting into the control valve and attach the hose to the Tee fitting.
- 7) Install a pressure gauge in the other port in the Tee fitting to monitor hydraulic pressure.
- 8) Put the infeed control valve in the center position and start the engine.
- 9) Increase the engine speed slowly to full rpm.
- 10) Operate the infeed control valve to feed the log into the stationary disc/drum. If the feedwheel(s) try to turn, apply down pressure by using the yoke control valve (if equipped).
- 11) Providing the pump and the relief are functioning properly, the pressure gauge should read the specified main relief setting.
- 12) Observe the amount of hydraulic fluid coming from the hose into the pail. The amount of leakage should not be more than about 1 g.p.m. (3.8 L.p.m.) into the pail.

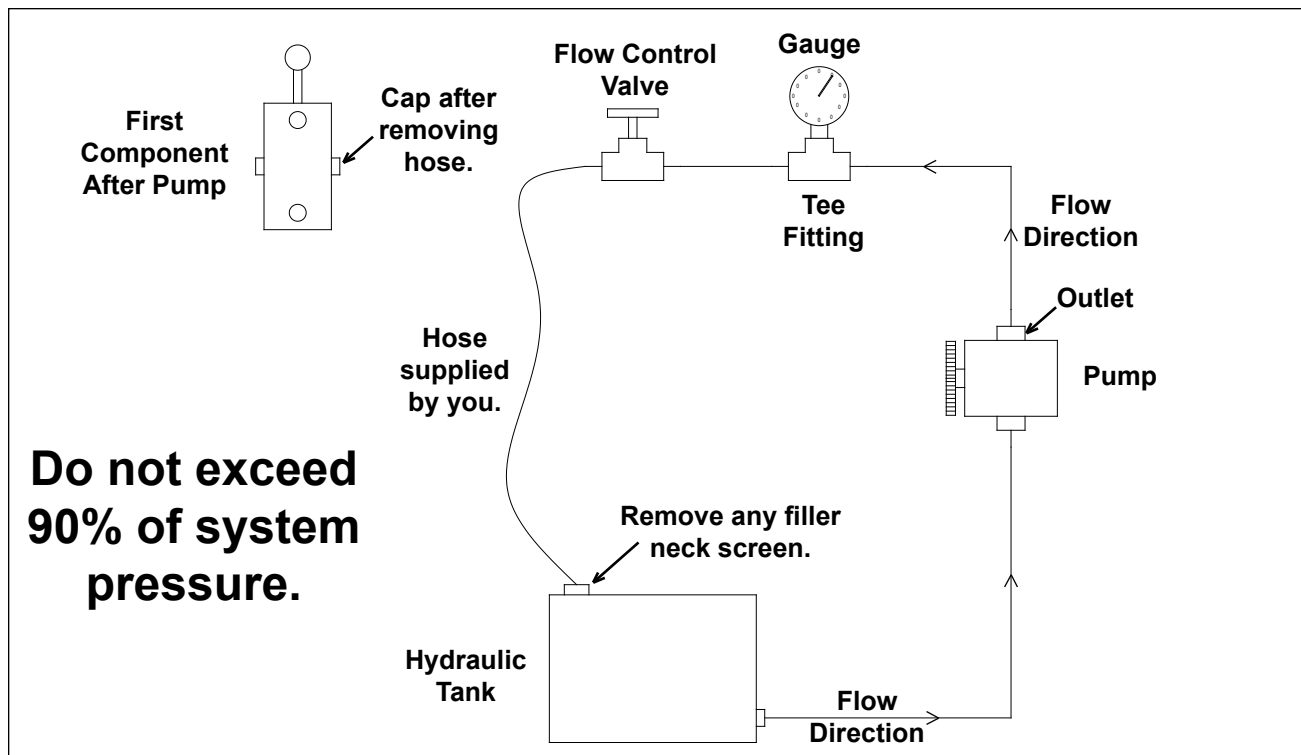


HYDRAULIC PUMP CHECK OUT

HYDRAULIC PUMP CHECK OUT WITHOUT USING A FLOW METER

To check out the hydraulic pump the mechanic will need a needle type flow control valve, a pressure gauge capable of reading 3000 psi (207 bar) and a long enough hose that will span between the pump and the hydraulic tank.

- 1) Disconnect the pressure line going from the pump at the first component and cap the fitting at the component.
- 2) Attach a Tee fitting to the end of the pressure hose (which was removed from the component) and install the Tee fitting and gauge.
- 3) Attach the hydraulic flow control valve to the Tee fitting and the hose (you supply) to the outlet port of the flow control valve.
- 4) **Make sure the pressure gauge is installed up stream from the flow control valve. Failure to do this will cause serious damage to the hydraulic pump when testing.**
- 5) If the hydraulic oil tank is equipped with a mesh strainer in the fill neck, remove it and place the open end of the hose (you supply) into the tank fill neck.
- 6) **MAKE SURE THAT THE FLOW CONTROL VALVE IS FULLY OPEN SO AS TO ALLOW UNRESTRICTED FLOW TO PASS THROUGH IT.**
- 7) Start the engine to engage the pump, the clutch may have to be engaged if the pump is belt driven.
- 8) Have a second person lift the hydraulic hose far enough out of the tank inlet to observe the flow of oil going into the tank. Observe the pressure gauge reading to make sure a high pressure does not exist.
- 9) Increase the engine speed slowly to full rpm and at the same time observe the pressure. This should still remain low.
- 10) **SLOWLY** turn the needle valve on the flow control in and observe the pressure increase on the pressure gauge.
- 11) Continue closing the flow control valve until the pressure gauge reading reaches 90% of the normal relief valve setting (example: if system operates at 2500 psi (172 bar), do not exceed 2250 psi (155 bar). **Never allow the pressure to go more than 90% of the main relief pressure.**
- 12) If the pump is good there should be no noticeable decrease in the flow rate coming out of the hose and into the hydraulic tank.
- 13) If 90% of the main relief pressure can not be obtained and/or the flow rate of the hose is considerably less, then the pump is worn or damaged.

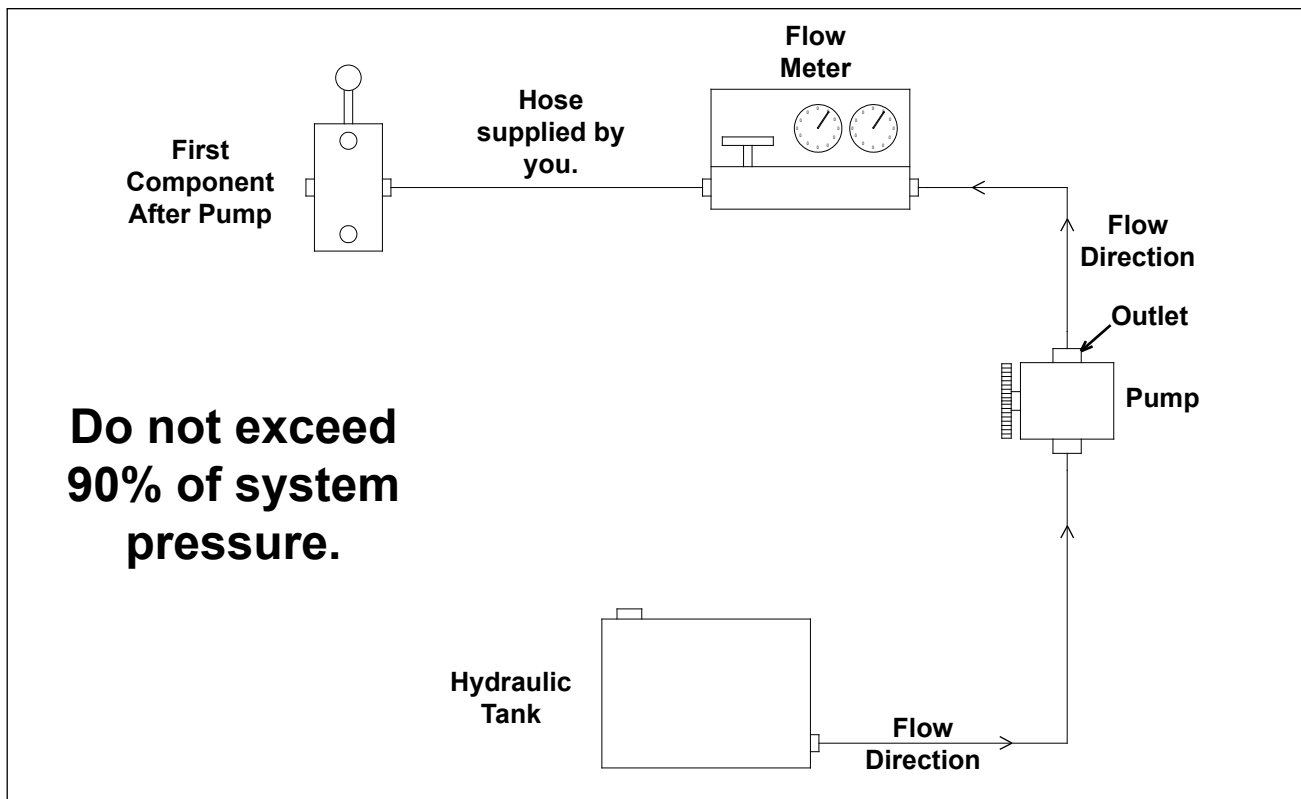


HYDRAULIC PUMP CHECK OUT

HYDRAULIC PUMP CHECK OUT USING A FLOW METER

To check out the hydraulic pump the mechanic will need a needle type flow meter capable of reading 3000 psi (207 bar) and a long enough hose that will go from the flow meter back to the first component.

- 1) Disconnect the pressure line going from the pump at the first component.
- 2) Attach the flow meter to the end of the pressure hose (which was removed from the component).
- 3) Attach the hose you supplied to the outlet of the flow meter and run the hose back to the first component. **MAKE SURE THE HOSES ARE ON THE CORRECT SIDES OF THE FLOW METER.**
- 4) **Make sure the pressure gauge is installed up stream from the flow control valve. Failure to do this will cause serious damage to the hydraulic pump when testing.**
- 5) **MAKE SURE THAT THE FLOW CONTROL VALVE IS FULLY OPEN SO AS TO ALLOW UNRESTRICTED FLOW TO PASS THROUGH IT.**
- 6) Start the engine to engage the pump, the clutch may have to be engaged if the pump is belt driven.
- 7) Observe the flow rate through the meter and pressure gauge reading to make sure a high pressure does not exist.
- 8) Increase the engine speed slowly to full rpm and at the same time observe the pressure and flow rate. The pressure should still remain low. Make a note of the flow rate (gpm or Lpm) at full engine rpm.
- 9) **SLOWLY** turn the needle valve on the flow control in and observe the pressure increase on the pressure gauge.
- 10) Continue closing the flow control valve until the pressure gauge reading reaches 90% of the normal relief valve setting (example: if system runs at 2500 psi (172 bar), do not exceed 2250 psi (155 bar). **Never allow the pressure to go more than 90% of the main relief pressure.**
- 11) If the pump is good, you should have at least 80% of the flow rate (gpm or Lpm) passing through the flow meter as noted at low pressure and full rpm (example: 10 gpm (38 Lpm) and low pressure = 8 gpm (30 Lpm) at 90% pressure).
- 12) If 90% of the main relief pressure can not be obtained and/or the flow rate passing through the meter is considerably less, then the pump is worn or damaged.



CONTROL VALVE DETENT ASSEMBLY AND O-RING REPLACEMENT

Tools Required:

- Small amount of clean hydraulic oil
- Clean working area, free of debris and shop rags
- 3/16" Tee handle hex driver
- 1/2" drag link drive socket
- Jawed vice

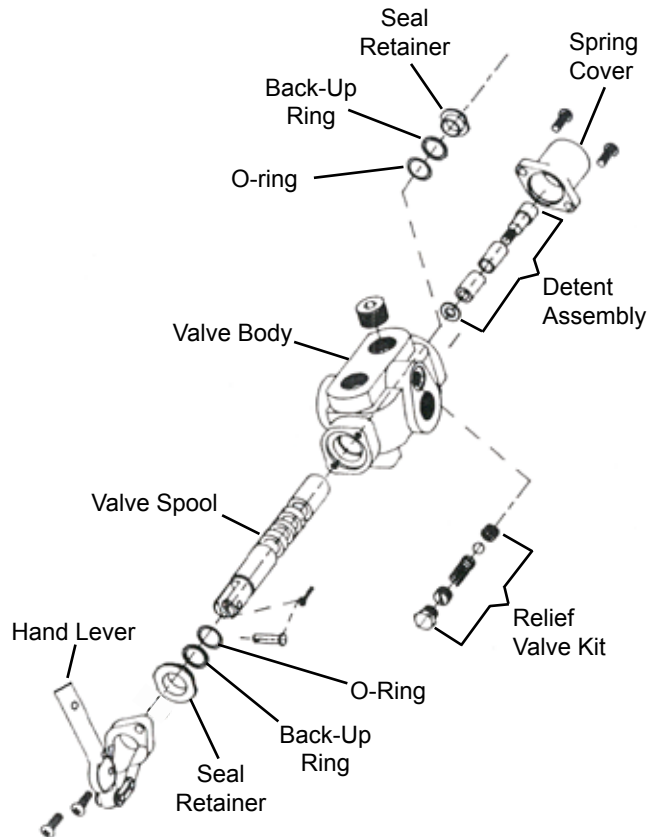
1/2" Drag Link Drive Socket



General Procedure:

Disassembly:

- 1) Secure valve in vice or suitable method to firmly hold valve.
- 2) Note the orientation and placement of all components during disassembly.
- 3) Using the 3/16" Tee handle hex driver, remove (2) two socket head cap screws which hold the spring cover to the valve body. Set aside for re-use.
- 4) The detent assembly is now visible. Insert the 1/2" drag link drive socket blade into slot of retaining screw. Loosen and remove the retaining screw along with the entire detent assembly.
- 5) With the 3/16" Tee handle hex driver, remove (2) two socket head cap screws that hold the control lever assembly to the valve body.
- 6) Detach hand lever from spool. Carefully remove valve spool from valve body. Take care not to scratch, dent, or nick the spool. Note the orientation of handle attachment point on spool. Set aside for re-use.
- 7) Remove (2) seal retainers, o-rings, and back-up rings from both ends of the valve.
- 8) Inspect and replace o-ring and back-up ring if cut, or if leak is suspected.



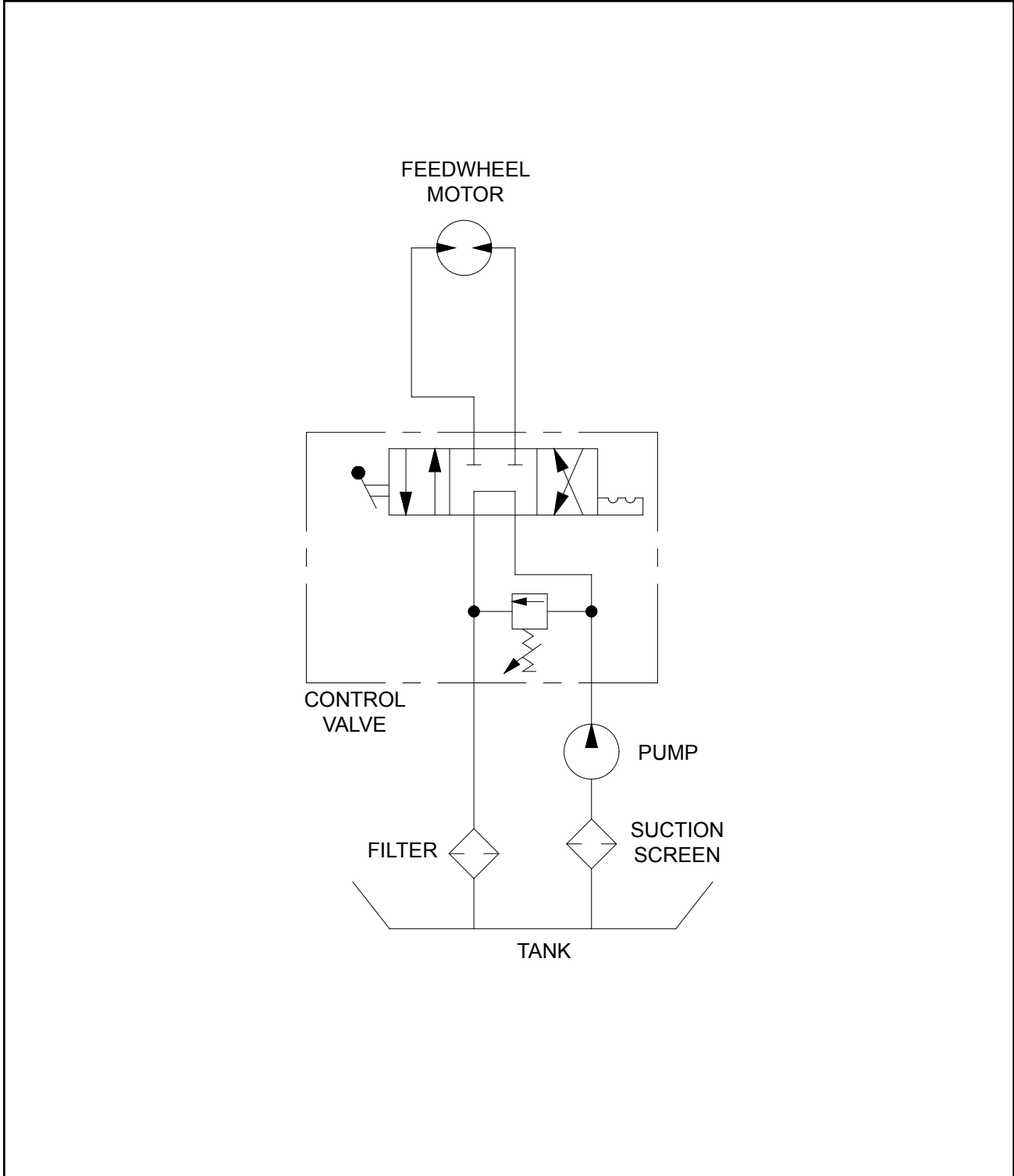
Assembly:

- 1) Lubricate spool, o-rings, and back-up rings with clean oil. Insert spool and center it in the valve body.
- 2) Place the new o-rings and back-up rings over spool ends and seat them into the valve body. Seat the seal retainer onto back-up ring making sure not to pinch the o-ring or back-up ring against the valve body.
- 3) Re-attach the hand lever to the spool. Mount control lever assembly onto the valve body using the (2) two socket head cap screws.
- 4) Thread a new detent assembly onto the spool end and hand tighten with the 1/2" drag link drive socket blade. No additional lubricant is required.
- 5) Mount the spring cover and the (2) socket head cap screws.
- 6) Hand tighten all (4) four socket head cap screws with the 3/16" Tee handle hex driver.
- 7) Shift valve with hand lever to assure operation. With some effort, the hand lever should move between three positions. The detent will hold the hand lever in the three positions.

Instructions and illustrations provided by component manufacturer.

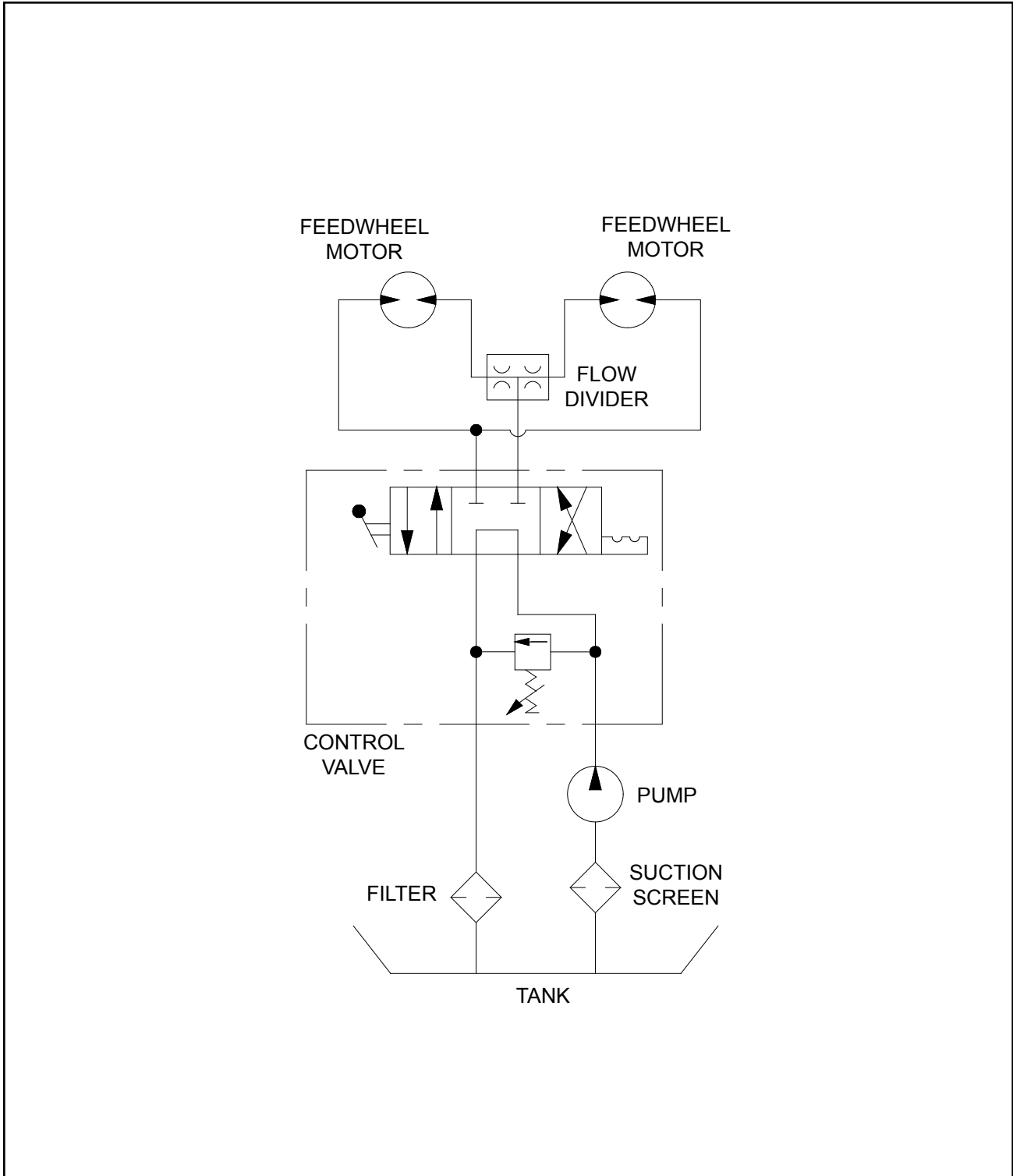
MODELS 65/95

SPECIFIC SCHEMATIC FUNCTION MAY VARY DEPENDING
ON OPTIONS OR COMPONENT MANUFACTURE.
WITH NO OPTIONS



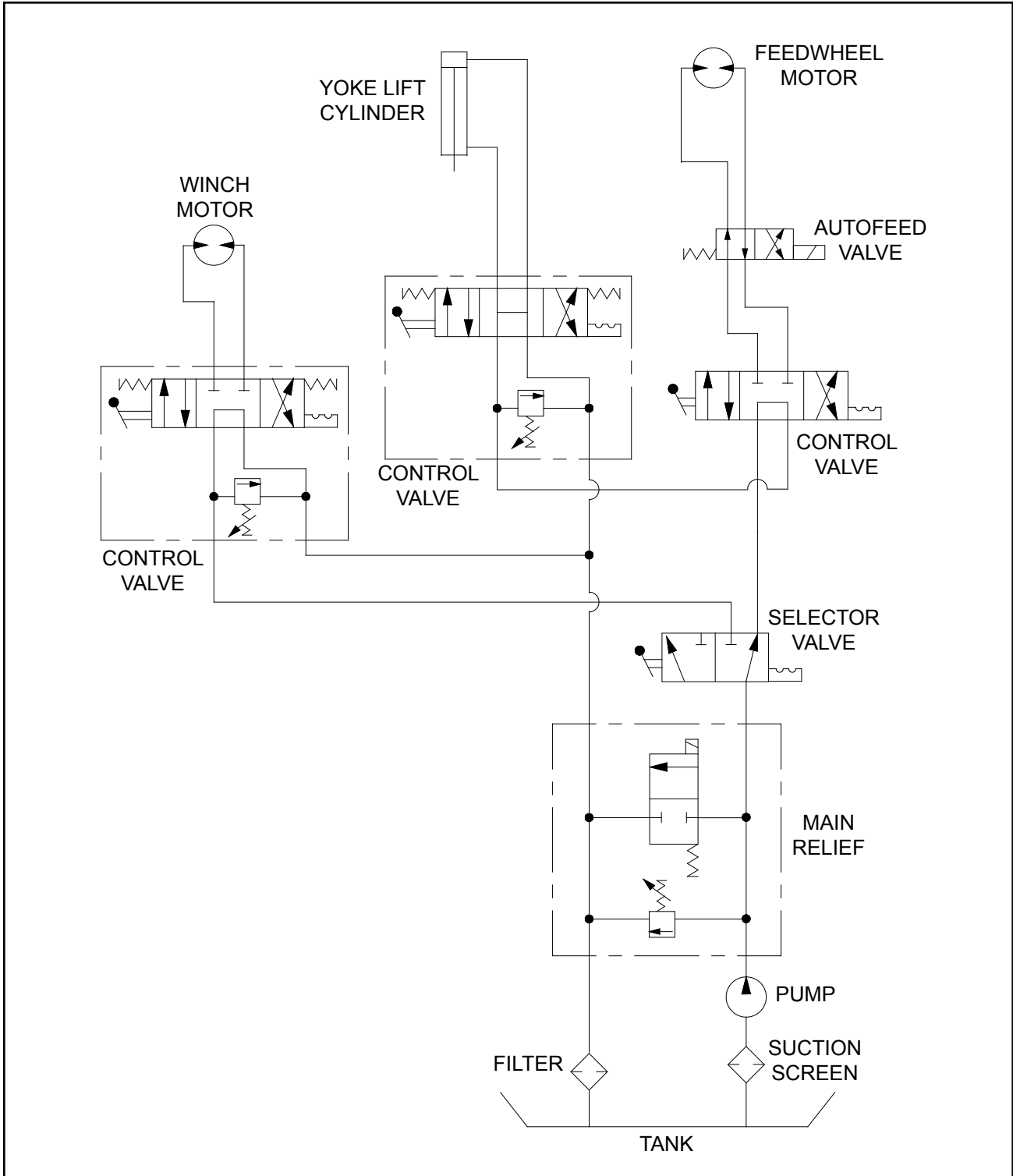
MODEL 65 WITH DUAL FEEDWHEELS

SPECIFIC SCHEMATIC FUNCTION MAY VARY DEPENDING
ON OPTIONS OR COMPONENT MANUFACTURE.
WITH NO OPTIONS

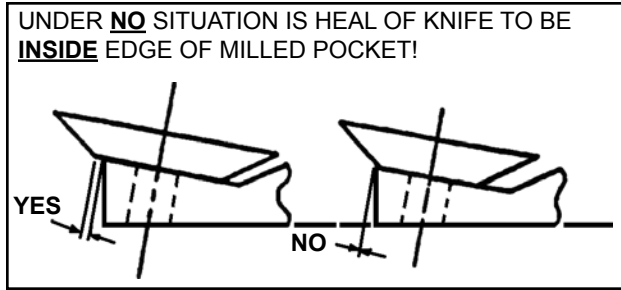


MODEL 95

SPECIFIC SCHEMATIC FUNCTION MAY VARY DEPENDING ON OPTIONS OR COMPONENT MANUFACTURE.
WITH AUTOFEED PLUS, YOKE LIFT CYLINDER, WINCH



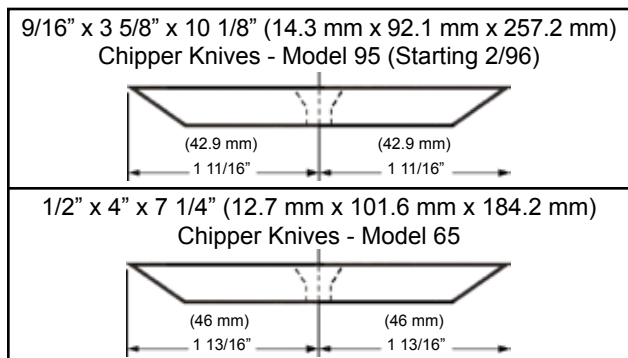
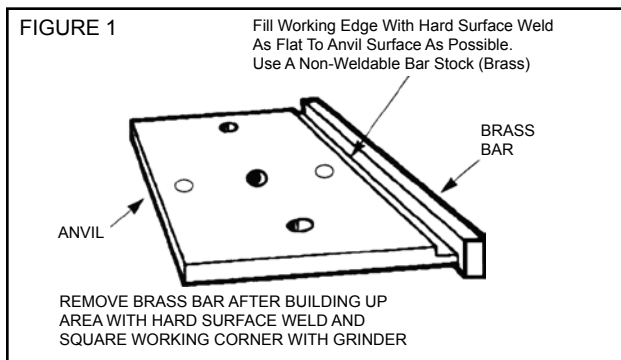
CHIPPER SECTION



Knives should be replaced in sets. These sets are determined by the amount of resharpening done to the knives. It should be reinstalled with another knife of comparable usage. It helps to keep the disc/drum balanced, and it helps maintain chip quality. **NEVER** allow these knives to wear beyond absolute specified minimum distance from the center line of bolt (see below).

TROUBLE SHOOTING CHIPPER PROBLEMS

- 1) **Chipper Makes Poor Quality Chips or Does Not Feed Properly.**
 - A. Knives have lost their edge. File, grind or replace knives. **DO NOT** operate the Bandit with dull knives.
 - B. Knife anvil worn or needs adjustment. Rotate, repair or replace (see Figure 1).
 - C. Feedwheel(s) are not operating correctly. (SEE HYDRAULIC TROUBLE SHOOTING).
 - D. The throat/base opening is a high-wear area. The feed plate anvil takes much of this wear but other areas wear as well. Attention must be paid to any areas where outer, noncutting edges of chipper knife are exposed. These areas must be built up with weld to maintain the original integrity.
 - E. Knives are at the wrong angle. Model 65 knives must be ground at a 30° to 31° angle. Model 95 (starting 2/96) knives must be ground at a 35° angle.
 - F. Feedwheel teeth worn (REPLACE).
 - G. Material being chipped is very small, dry or rotting. This type of material does not produce good chip quality.
- 2) **Chipper Knife Hits Anvil.**
 - A. Check the anvil clearance at both sides of the knife by using a feeler gauge, the clearance should be the specified distance from the highest knife (SEE ANVIL ADJUSTMENT).
 - B. Check the chipper front bearing retainer cap for tightness (SEE TORQUE CHART).
- 3) **Discharge Plugs or Does Not Throw Chips Properly.**
 - A. Lugging engine on large material - keep engine RPM up.
 - B. Knives are dull or worn to minimum size.
 - C. Obstruction in discharge chute. Patches welded into the chute can cause obstruction of chip flow. Anything causing an obstruction will cause the chute to plug.
 - D. Chipping rotting material that has little substance can also plug the discharge chute.
 - E. Worn fan blades.
- 4) **Chipper Bearings Running Too Hot.**
 - A. Improper lubrication - purge bearings once a day with EP-2 Lithium type grease.
 - B. Chipper disc operating at too high RPM's. **DO NOT** exceed recommended RPM's.
 - C. Front bearing retainer cap loose (SEE TORQUE CHART).
 - D. Bearings worn out (REPLACE).
 - E. Set screws on sheave side bearing not tight.



Bandit

KNIFE GRINDING AND FILING

Only Bandit knives and hardware are recommended for use in your Bandit chippers. Only then can you be assured of a quality product that fits and performs the best to the standards of excellence that is expected from the Bandit chipper.

Chipper knives **MUST** be kept sharp at all times for the ultimate chipper and knife performance. The main cause of poor cutting performance is dull knives.

Dull Knives Cause:

- Excessive waste of engine horsepower
- Bad quality chips; chunks, slivers, etc.
- Excessive strain on knives and mounting hardware
- Excessive strain on chipper disc/drum bearings and total machine
- Excessive chipping vibration damaging the machine
- Excessive strain on drives, PTO's, engines, etc.
- Increase the probability of the discharge plugging and decreases the throwing distance
- Loss of time and money

The Dulling Of Chipper Knives Is Caused By:

- Poor quality knives
- Improper anvil to knife clearance
- Force feeding wood faster than chipper will accept
- Dirt, grit, or foreign material on the wood
- Chipper knives ground at wrong angle
- Improper care of knives and knife hardware

These are just a few factors, there are other situations that can lead to the dulling of chipper knives.

NOTICE

Many times a chipper knives cutting edge/point can be brought back to a good edge with a #10 Flat Bastard Mill File. This can reduce the amount of regrinding.

Typical Knife Grinding Angles:

Model 65 "Bolt-In" Knives = 30° to 31° Angle

Model 95 "Bolt-In" Knives (Starting 2/96) = 35° Angle

Knives should be replaced in sets. These sets are determined by the amount of resharping done to the knives (knife width). Regrinding knives reduces the width of the knife. Knife replacement should be done in sets of the same width knives. That will reduce chipping vibration and increase chipping performance.

NOTICE

- Keep knives sharp.
- Keep knife angle correct when grinding.
- Do not over grind so knife is narrower than allowed width, or you will pack wood and break knives.
- Use correct knife size, knife quality, knife mounting hardware, and torque knife mounting hardware to the specified torque.
- Replace knife mounting hardware after (5) times of tightening.

CAUTION

Do not grind the knives in a direction which produces a radius, or hollow grind, on the surface of the knife. Strength and life of the cutting edge is reduced.

- For maximum chipper efficiency, the original cutting angle must be maintained when the knives are sharpened. The knives should be machine ground to produce a flat, straight edge.
- Do not sharpen the knives with a hand held power grinder. The knife angle can't be held and heat will distort the metal.
- Sharpening techniques should be the same as those employed for any high carbon steel cutting edge. Use a coolant and exercise care not to draw temper or crack the cutting edges by excessive heating.
- Knives may be sharpened repeatedly as long as their original width is not reduced to less than the specified minimum width. If a knife measures less than the specified minimum width after sharpening, it must be discarded.
- Inspect the knives after grinding to ensure the knives are free of cracks.
- Maintain spare sharpened knives to avoid downtime for knife sharpening.

NOTICE

USE CORRECT KNIFE AND HARDWARE

DO NOT use a size or style chipper knife, bolt or nut other than factory approved for this chipper - see manual.

DO NOT over torque or under torque knife bolts and nuts - see manual.

DO NOT resharpen knife more than minimum width - see manual.

DO NOT use a knife bolt or nut which has been tightened over (5) times - replace.



DO NOT improperly install the knife nuts. Flat surface of nut goes toward the chipper disc.

KNIFE CHANGING PROCEDURE

Only Bandit knives and hardware are recommended for use in your Bandit chippers. Only then can you be assured of a quality product that fits and performs the best to the standards of excellence that is expected from the Bandit chipper.

DANGER

Chipper knives are sharp and can be dangerous. It is always necessary for your protection to be extra careful and wear proper hand protection when handling knives. Before changing knives make sure all shut down procedures are followed.

1. Before attempting any type of maintenance disengage clutch, install clutch lock if equipped, turn off engine, wait for the disc/drum to come to a complete stop, install the disc/drum lock pin, disconnect battery, and make sure the ignition key is in your possession.
2. Disconnect the chipper hood engine disable plug.
3. Remove the padlock from the hood pin.
4. On disc chippers, recess the spring lock for the hood pin and retract the hood pin. On drum chippers, retract the hood pin.
5. Carefully open the hinged part of the chipper hood. Do not slam the chipper hood to the open position. This will cause damage to the hinge. If the hinge becomes damaged by slamming the hood open, replace the hinge immediately! If the hinge has become damaged, it will cause misalignment of the hood, the chipper disc/drum may hit the hood and cause a serious accident!
6. Changing the chipper knives is a two person job. One person, using a wooden block, holds the chipper knife in place while the other person removes the chipper knife hardware. Remove all of the knives in each pocket. If the machine is a disc chipper with 5/8" knife bolts, typically a 3/8" allen key and a 1 1/16" socket is required to change or torque the knife hardware. If the machine is a disc chipper with 1/2" knife bolts, typically a 5/16" allen key and a 7/8" socket is required to change or torque the knife hardware. If the machine is a drum chipper, typically a 15/16" socket is required to change or torque the knife hardware.
7. Once the knives have been removed, inspect the knife pocket. Check for secure welds, excessive wear, impact cracks, and elongated bolt holes on disc chippers or the condition of the knife bolt threads on drum chippers. If a problem is found, contact your local dealer or Bandit Industries.
8. Clean out the knife pocket at this time. Remove all debris from the pocket and knife bolt holes.
9. Sharpen, rotate, or replace the chipper knife. Knives should be professionally ground, maintaining angle and dimensional specifications. Knives should be replaced in sets. These sets are determined by the amount of resharpening done to the knives. It should be reinstalled with another knife of comparable usage. It helps to keep the disc/drum balanced, and it helps maintain chip quality. Do not allow the knives to wear beyond the absolute minimum specified distance from the center line of the bolt hole. Reinstall the chipper knives. Make sure to properly torque the knife hardware, see Bolt Torque Chart. Knife mounting hardware must be replaced after maximum of 4 - 5 knife rotations/changes to insure safe clamping ability. All knives and knife mounting hardware must be factory approved.
10. Remove the disc/drum lock pin. Very carefully, manually with a bar, turn the chipper disc/drum to the next knife pocket. Reinstall the disc/drum lock pin.
11. Repeat steps 6 through 10, for each knife pocket.
12. Once the knives have been changed or rotated, check the anvil clearance. Make sure the clearance is maintained to the specified distance from the highest knife. Do Not under any circumstance attempt to rotate the chipper disc/drum while someone is inside the infeed hopper. They may become seriously injured, Do Not Do This!
13. Close the hinged part of the chipper hood and reinstall the hood pin, hood pin padlock, chipper hood disable plug, and on disc chippers make sure the spring lock for the hood pin springs back into position.

Bandit

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) **Clutch:** Follow original equipment manufacturer's requirements for both greasing and adjusting. Frequently, adjust and lubricate per PTO manufacturer's manual.
- 4) **Wheel Bearings:** Follow axle manufacturer's instructions for greasing or oiling wheel bearings.
- 5) **Tracks (if equipped):** Follow track manufacturer's instructions for specific track lubricating procedures.
- 6) **Hydraulic Reservoir Tank:** Completely change hydraulic oil, suction screen(s), and flush the tank annually. Change hydraulic oil filter(s) AFTER FIRST 10 HOURS OF OPERATION. Then change hydraulic oil filter(s) 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.
- 7) **High Pressure Filter(s) (if equipped):** If machine is equipped, change high pressure oil filter(s) AFTER FIRST 10 HOURS OF OPERATION. Then change high pressure oil filter(s) every 3 months or 400 hours thereafter.
- 8) **Hydraulic Fluid Requirements:** See pages 62 - 63 for hydraulic fluid requirements.
- 9) **Discharge Swivel:** Grease swivel plates for discharge every 3 months or as needed.
- 10) **Hood Hinge:** Make sure the hood hinge operates correctly, and is lubricated daily. Must replace hinge if damaged.
- 11) **Steel Friction Areas:** Lubricate all steel friction areas including, but not limited to pivoting, hinged, sliding, and rotating areas weekly. (i.e. control handle, folding pan, discharge flipper, winch rollers, height adjustable discharge, discharge T-handle, etc.)
- 12) **Pintle Eye Ring:** Keep greased monthly to reduce wear and extend the normal life of your pintle eye ring.
- 13) **Chain Operated Components:** Use a dry lubricant on any chain driven components weekly. (i.e. hydraulic swivel discharge, or chain driven feedwheels)
- 14) **Chipper & Feedwheel Bearings:** Use an EP-2 Lithium type grease only for all bearings. Purge chipper bearings daily with grease you can not over grease these bearings. Grease feedwheel bearings daily with one shot of grease. Both types of bearings are designed with a relief system that will not allow over greasing. In other words, you can not hurt the bearing seals by pumping in too much grease. Wipe off excess grease. **Excessive grease will attract dirt.**

Most of the failures related to bearings are diagnosed as "Contamination". Contamination is caused by improper lubrication.

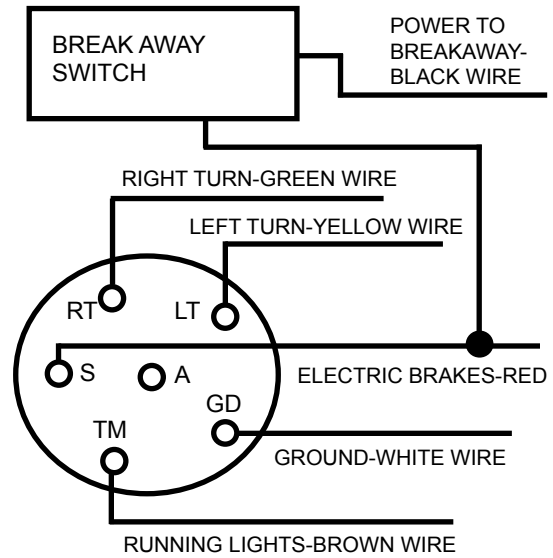
Especially important is proper lubrication when the chipper is setting idle. The bearings must be fully purged when shut down. Then the bearings must be again fully purged each thirty (30) days and the machine allowed to run for approximately 10 minutes. Then fully purged again before the machine is put back into operation. Failure to do this will ruin the bearings. Bearings corrode when the machine is setting idle.

The second largest cause of bearing failure is operating them at high speeds when the grease is cold. This causes the bearing race to turn on the shaft. Naturally this ruins the bearing as well as the shaft. Allow the bearings to turn at slower speeds for at least five minutes. Also check the bearing lock collar set screws or bearing locknut for tightness each 30 days. Loose set screws or locknut allows the race to turn on the shaft. Failed bearings diagnosed as contamination or cold starts at high speed are not covered by warranty of the bearing manufacturer.
- 15) **Yoke Pivot Bearings:** Use an EP-2 Lithium type grease only for all bearings. Grease yoke pivot bearings daily with one shot of grease. These bearings are designed with a relief system that will not allow over greasing. In other words, you can not hurt the bearing seals by pumping in too much grease. If the machine is setting idle, the bearings must be fully purged when shut down, every 30 days after, and again before the machine is put back into operation just like the chipper and feedwheel bearings. Wipe off excess grease. **Excessive grease will attract dirt.**
- 16) **Chip Box Turntable Bearing (if equipped):** Use an EP-2 Lithium type grease only for all bearings. If the machine is equipped chip box, grease turntable bearing zerks with 1 to 2 shots of grease weekly. Wipe off excess grease. **Excessive grease will attract dirt.**
- 17) **"Bandit Lever Throttle Cable (if equipped):** 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 every month. Replace throttle cable if it doesn't operate smoothly.

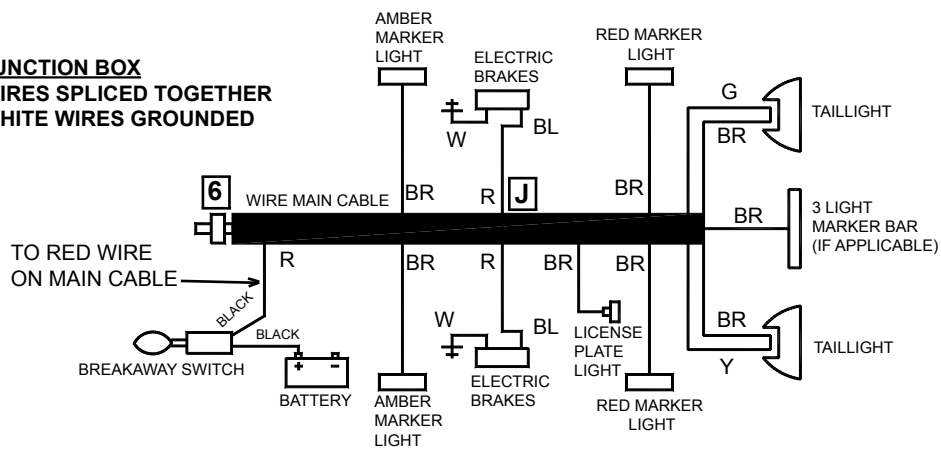
TYPICAL ELECTRICAL WIRING DIAGRAMS

WIRING FOR STANDARD 6 PRONG PLUG AND 6 WIRE MAIN CABLE EFFECTIVE ON MACHINES BUILT AFTER 11/01/04

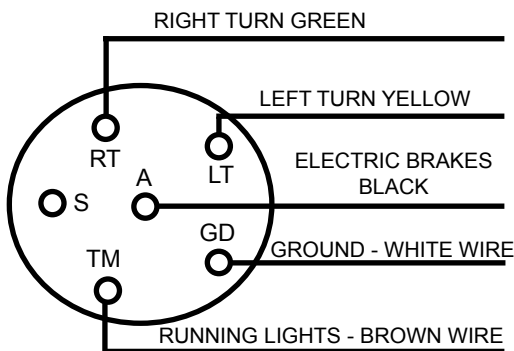
6 Wire Main Cable Color Code
 Red R (Brakes & Breakaway Switch)
 White W (Ground)
 Green G (Right Turn)
 Yellow Y (Left Turn)
 Brown BR (Running Lights)
 Black BL (Power to Breakaway Switch)



J JUNCTION BOX
 WIRES SPLICED TOGETHER
 WHITE WIRES GROUNDED



6 WIRE MAIN CABLE COLOR CODE (OLD STYLE)



OLD STYLE

6 Wire Main Cable Color Code

Black BL (Brakes)
 White W (Ground)
 Green G (Right Turn)
 Yellow Y (Left Turn)
 Brown BR (Running Lights)
 Red R (Breakaway Switch)

REPLACEMENT PARTS SECTION

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

CHIPPER COMPONENTS

Serial Number
Model Number of Chipper

ENGINE COMPONENTS

Brand
Engine Serial Number
Engine Spec. Number

CLUTCH COMPONENTS

Brand
Serial Number
Assembly Number of Clutch

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

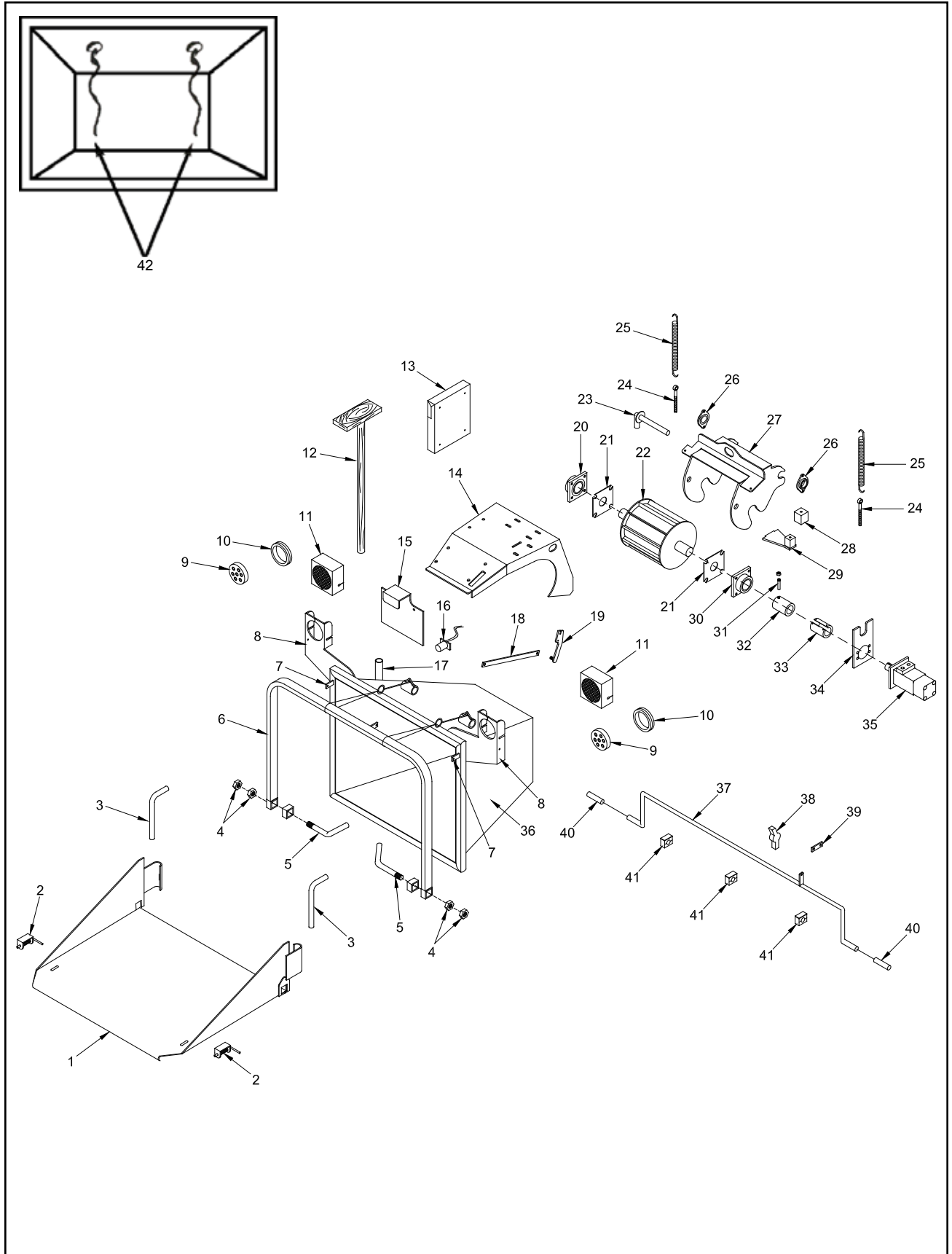
All nuts, bolts, washers, and many other components can be ordered by physical description.

NOTICE

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

NOTICE

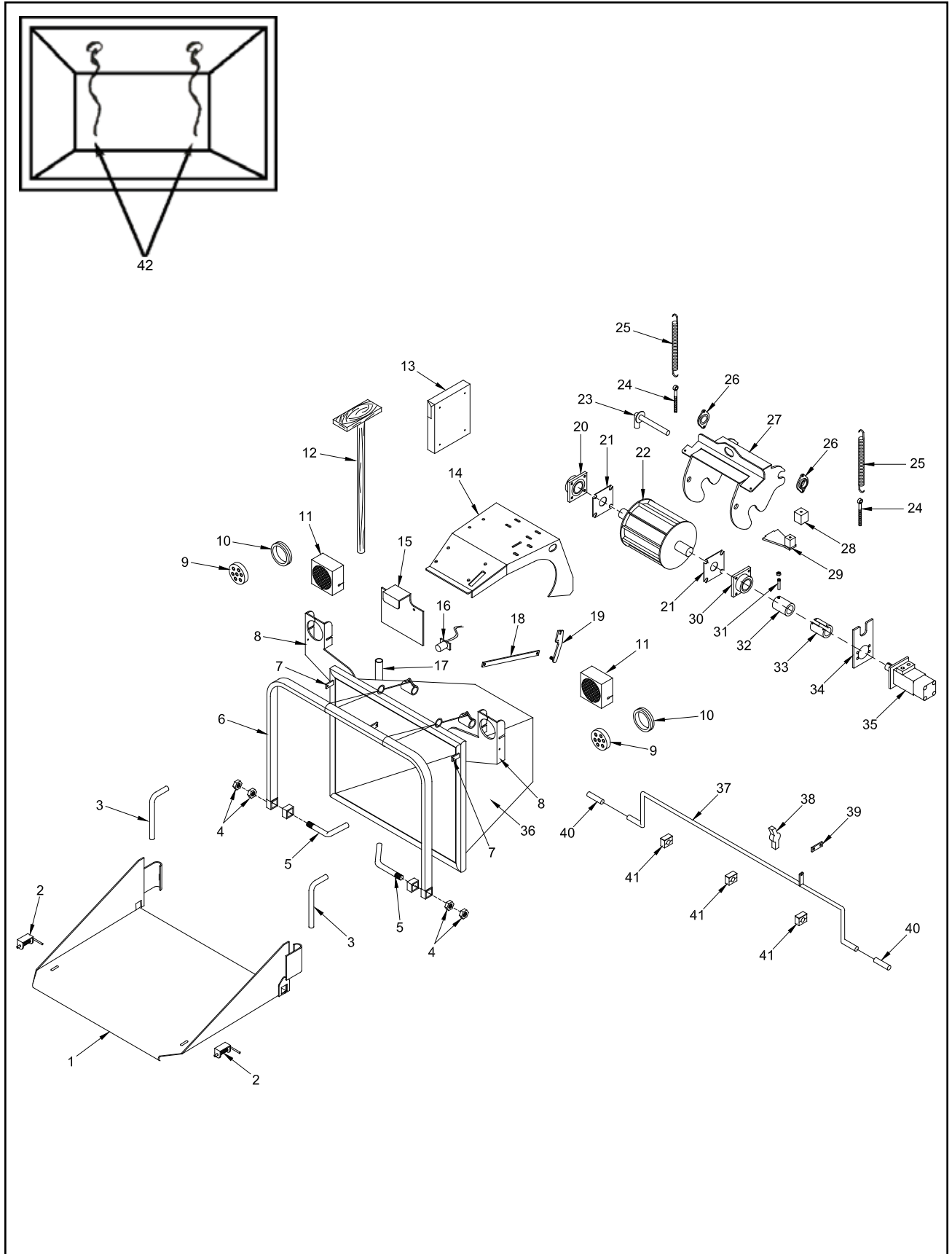
Bandit Industries Inc. reserves the right to make changes in models, size, design, installations and applications on any part without notification.



NOTICE Parts may not be exactly as shown.

Bandit

LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
1.	626-200019	995-100000	Folding Pan for Infeed Hopper
2 a.	900-4901-83	900-4901-83	Folding Pan Spring Lock & Trap Door Lock
b.	900-7900-93	900-7900-93	Rubber Cap (Not Shown)
3 a.	955-1003-94	955-1003-94	Folding Pan Lock Pin
b.	900-7900-96	900-7900-96	Rubber Cap (Not Shown)
4.	900-4900-44	900-4900-44	Pivot Pin Jam Nuts
5.	626-300001	980-300576	Pivot Pin
6.	626-200020	980-100019	Control Handle
7.	980-0137-06	980-0137-06	Lock Tab for Folding Pan
8 a.	See Pages 122-123	980-200176	Tail Light Mount - Road Side
b.	See Pages 122-123	980-200177	Tail Light Mount - Curb Side
9 a.	See Pages 122-123	900-2908-76	LED Tail Light
b.	See Pages 122-123	900-2908-74	Adapter Wire for LED Tail Light (Not Shown)
10.	See Pages 122-123	900-2908-75	Rubber Grommet for LED Tail Light
11 a.	N/A	980-2002-82	Heavy Duty Tail Light Cover (Start 11/08)
b.	N/A	980-0508-72	Heavy Duty Tail Light Cover (Pre 11/08)
12.	626-0000-52	980-0507-42	Wooden Push Paddle
13.	900-9902-72	900-9902-07	Manual Holder
14.	N/A	995-200000	Winch and Valve Mount (Start 9/04 Approx.)
15.	See Pages 122-123	980-300181	License Plate and Light Mount
16.	900-2900-07	900-2900-07	License Plate Light
17 a.	980-0122-55	980-0122-55	Wooden Push Paddle Mount
b.	900-4914-18	900-4914-18	Plastic Knob (Not Shown)
18.	626-0001-80	980-300139	Hydraulic Control Arm
19.	980-100141	980-100141	Feedwheel Control Valve Linkage
20 a.	900-1909-79	900-1909-79	Feedwheel Bearing (Set Screw Style) (Start 8/04)
b.	900-1909-81	900-1909-81	Feedwheel Bearing - Debris (Set Screw) (Start 8/04)
c.	900-4912-37	900-4912-37	Feedwheel Bearing Bolt (1/2-13NC x 1" SHCS)
d.	900-1900-66	900-1900-66	Feedwheel Bearing (Pre 8/04)
e.	900-4900-13	900-4900-13	Feedwheel Bearing Bolt (3/8-16NC x 1")(Pre 8/04)
21.	980-300083	980-300083	Feedwheel Bearing Backer Plate (Start 8/04)
22 a.	626-200014	995-0500-31	Feedwheel Assembly
b.	626-300132	980-0120-39	Feedwheel Tooth - Knife Edge
c.	626-300134	N/A	Feedwheel Tooth - Serrated
d.	626-300062	981-0501-34	Feedwheel Shaft & Coupler Assembly
23.	626-300068	955-1015-32	Yoke Lock Pin
24.	900-4905-43	900-4902-29	Yoke Spring Adjuster
25.	900-4900-04	900-4900-04	Yoke Spring
26.	900-1901-08	900-1901-08	Yoke Pivot Bearing
27.	626-200010	995-0500-29	Top Yoke Assembly
28.	937-900009	937-900009	Torque Arm Cushion
29 a.	980-300515	981-300199	Top Torque Arm Stop
b.	937-300316	937-300316	Torque Arm Cushion Mount
30 a.	900-1909-80	900-1909-80	Feedwheel Bearing (Grip-Tight Style) (Start 8/04)
b.	900-4912-37	900-4912-37	Feedwheel Bearing Bolt (1/2-13NC x 1" SHCS)
c.	900-1900-66	900-1900-66	Feedwheel Bearing (Pre 8/04)
d.	900-4900-13	900-4900-13	Feedwheel Bearing Bolt (3/8-16NC x 1")(Pre 8/04)

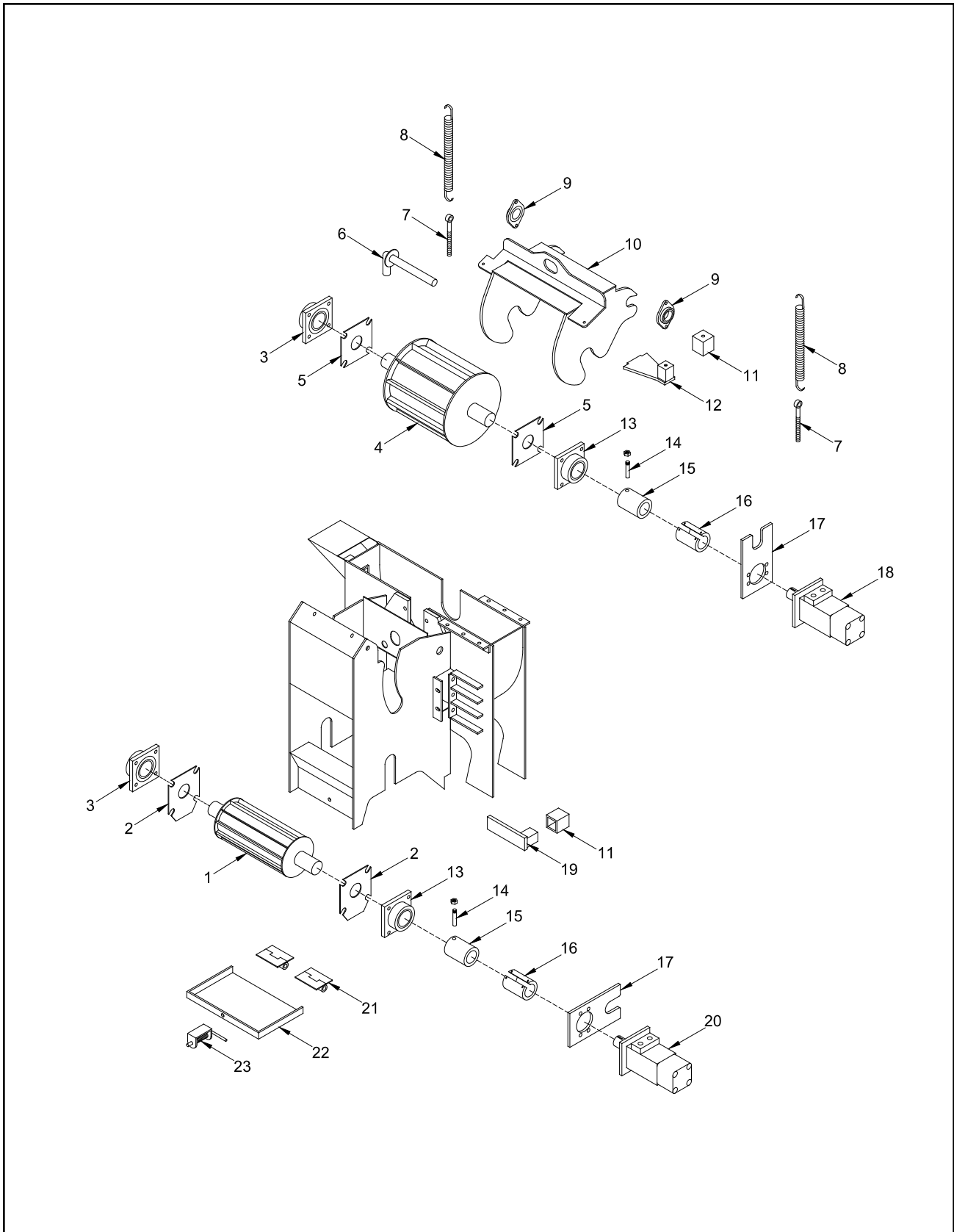


NOTICE Parts may not be exactly as shown.

Bandit

LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
31 a.	900-4909-53	900-4909-54	Taper Pin With Nut (Start 6/05)
b.	900-4905-54	900-4905-55	Taper Pin Only (Pre 6/05)
32 a.	626-300268	981-300140	Coupler With Motor Nut and Taper Pin With Nut
b.	626-0001-69	981-1006-45	Coupler With Motor Nut and Taper Pin
33 a.	900-7901-23	900-7901-23	Rubber Coupler Guard - 17 3/4" (Start 6/05)
b.	900-7900-38	900-7900-38	Rubber Coupler Guard - 15 3/4" (Pre 6/05)
c.	980-0508-57	980-0508-57	Coupler Guard Mount (Not Shown)
34.	980-0124-98	981-1006-44	Feedwheel Torque Arm
35 a.	900-3927-67	900-3908-68	Feedwheel Hydraulic Motor (Tapered Shaft)
b.	N/A	900-3908-19	Feedwheel Hydraulic Motor (RE-32 Straight Shaft)
c.	N/A	900-3906-30	Feedwheel Hydraulic Motor (RE-45 Straight Shaft)
36.	626-200009	995-0500-32	Infeed Hopper Assembly
37 a.	N/A	904-0006-91	Dual Yoke Lift Control Bar Kit
b.	N/A	980-300064	Dual Yoke Lift Control Bar
38.	N/A	955-1018-52	Short Valve Handle - Lift Cylinder Control Linkage
39.	N/A	626-0001-80	Control Arm - Dual Yoke Lift - 11 1/2"
40.	N/A	900-7900-96	Rubber Cap - Dual Yoke Lift Control Bar
41.	N/A	900-3914-02	Clamp - Lift Control Bar
42 a.	980-0508-64	980-0508-64	Last Chance Cable Assembly
b.	900-4904-29	900-4904-29	Last Chance Orange Cable & Clamp

MODEL 65 DUAL FEEDWHEEL

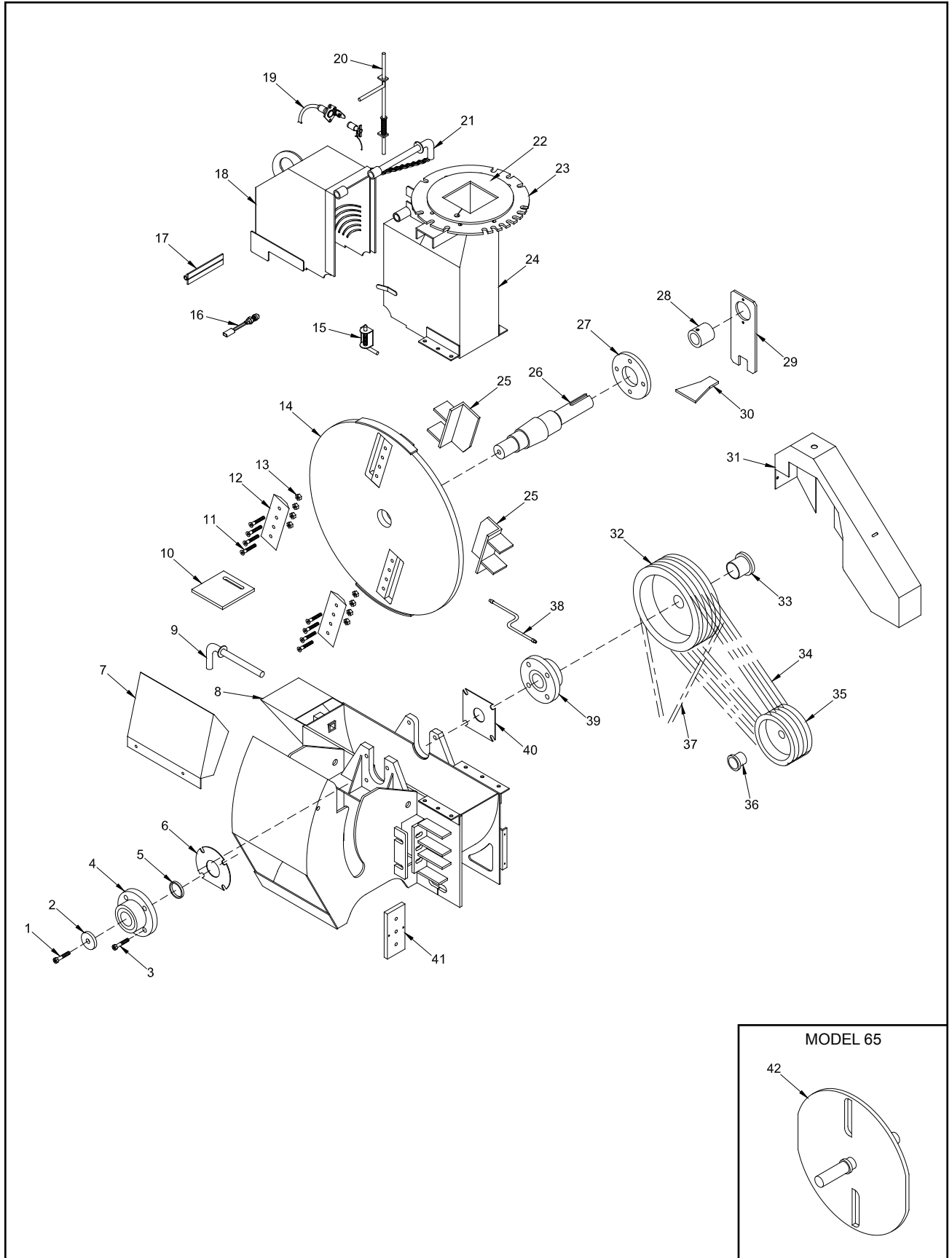


NOTICE Parts may not be exactly as shown.

Bandit

MODEL 65 DUAL FEEDWHEEL

MODEL 65		
LOCATION	PART NUMBER	DESCRIPTION
1 a.	626-200036	Bottom Feedwheel Assembly
b.	626-300132	Bottom Feedwheel Tooth - Knife Edge
c.	626-300134	Bottom Feedwheel Tooth - Serrated
d.	626-300062	Bottom Feedwheel Shaft and Coupler Assembly
2.	980-300082	Bottom Feedwheel Bearing Backer Plate
3 a.	900-1909-79	Feedwheel Bearing (Set Screw Style)
b.	900-1909-81	Feedwheel Bearing - Debris (Set Screw Style)
c.	900-4909-23	Top Feedwheel Bearing Bolt (1/2"-13NC x 1 1/4" SHCS)
d.	900-4909-23	Bot. Feedwheel Bearing Bolt (1/2"-13NC x 1 1/4" SHCS)
4 a.	626-200014	Top Feedwheel Assembly
b.	626-300132	Top Feedwheel Tooth - Knife Edge
c.	626-300134	Top Feedwheel Tooth - Serrated
d.	626-300062	Top Feedwheel Shaft and Coupler Assembly
5.	980-300083	Top Feedwheel Bearing Backer Plate
6.	626-300068	Yoke Lock Pin
7.	900-4905-43	Yoke Spring Adjuster
8.	900-4900-04	Yoke Spring
9.	900-1901-08	Yoke Pivot Bearing
10.	626-200010	Top Yoke Assembly
11.	937-900009	Torque Arm Cushion
12 a.	980-300515	Top Torque Arm Stop
b.	937-300316	Torque Arm Cushion Mount
13 a.	900-1909-80	Feedwheel Bearing (Grip-Tight Style)
b.	900-4909-23	Top Feedwheel Bearing Bolt (1/2"-13NC x 1 1/4" SHCS)
c.	900-4909-23	Bot. Feedwheel Bearing Bolt (1/2"-13NC x 1 1/4" SHCS)
14 a.	900-4909-53	Taper Pin With Nut (Start 6/05)
b.	900-4905-54	Taper Pin Only (Pre 6/05)
15 a.	626-300268	Coupler With Motor Nut and Taper Pin With Nut
b.	626-0001-69	Coupler With Motor Nut and Taper Pin
16 a.	900-7901-23	Rubber Coupler Guard - 17 3/4" (Start 6/05)
b.	900-7900-38	Rubber Coupler Guard - 15 3/4" (Pre 6/05)
c.	980-0508-57	Coupler Guard Mount (Not Shown)
17.	980-0124-98	Feedwheel Torque Arm
18.	900-3927-67	Top Feedwheel Hydraulic Motor
19 a.	980-300198	Bottom Torque Arm Stop
b.	937-300316	Torque Arm Cushion Mount
20.	900-3944-21	Bottom Feedwheel Hydraulic Motor
21.	981-1000-60	Trap Door Hinge
22.	626-200035	Trap Door Assembly
23 a.	900-4901-83	Trap Door Spring Lock
b.	900-7900-93	Rubber Cap (Not Shown)



NOTICE Parts may not be exactly as shown.

Bandit

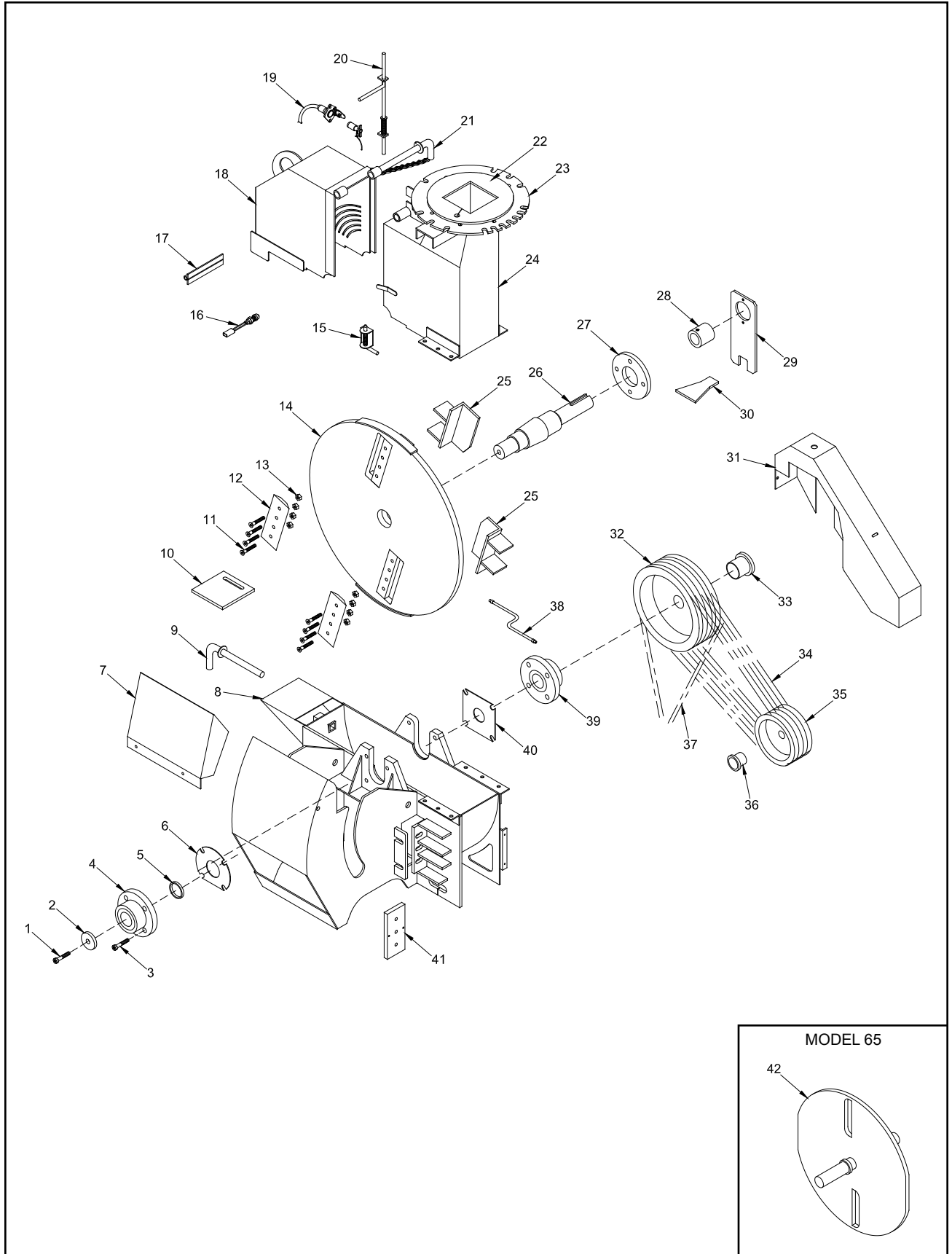
LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
1 a.	900-4903-30	900-4902-78	Bearing Retainer Bolt
b.	900-4901-38	900-4900-33	Lock Washer (Not Shown)
2.	626-300082	980-0125-10	Bearing Retainer
3 a.	900-4906-72	900-4903-32	Front Chipper Bearing Bolt
b.	900-4906-86	900-4906-87	Lock Washer (Not shown)
4.	900-1904-13	900-1900-33	Front Chipper Bearing
5 a.	626-0001-93	980-0101-72	1/16" Disc Spacer
b.	626-0001-94	980-0101-73	1/8" Disc Spacer
c.	626-0001-95	980-0101-74	3/16" Disc Spacer
d.	626-0001-96	980-0101-75	1/4" Disc Spacer
e.	N/A	995-0001-04	5/16" Disc Spacer
f.	N/A	995-0001-05	3/8" Disc Spacer
6.	626-0000-66	980-0119-38	Front Chipper Bearing Backer Plate
7.	626-300079	995-0001-19	Feedwheel Guard
8.	626-300048	626-0001-78	Hood Stop
9.	626-300068	955-1015-32	Chipper Disc Lock Pin
10.	N/A	980-0118-10	Pump Mount
11.	See Page 98	See Page 98	Chipper Knife Bolt
12.	See Page 98	See Page 98	Chipper Knife
13.	See Page 98	See Page 98	Chipper Knife Nut
14 a.	See Page 97	995-0500-27	2-Knife Disc Assembly (Includes 11-14 & 25-27)
b.	See Page 97	995-0500-20	3-Knife Disc Assembly (Includes 11-14 & 25-27)
c.	See Page 97	980-0123-82	Chipper Disc Lock Tube On Disc
15 a.	900-4901-83	900-4908-27	Discharge Spring Lock
b.	900-7900-93	900-7900-96	Rubber Cap (Not Shown)
16.	626-100030	N/A	Engine Disable Plug Kit - Honda/Robin/Kohler Only
17.	626-300099	980-0101-59	Chipper Hood Hinge
18.	626-200006	995-0500-07	Chipper Hood Hinged Half
19 a.	626-100064	980-0509-04	Engine Disable Plug Kit (Includes Hood Pin & Mounts)
b.	900-2904-13	900-2904-13	6-Prong Female Plug Only
c.	980-100083	980-100083	6-Prong Male Plug Only With Wire Loop & Crimp Sleeves
20 a.	626-0501-16	980-0508-54	Spring Lock For Hood Pin
b.	900-7900-92	900-7900-93	Black Vinyl Cap (Not Shown)
21 a.	626-100068	981-1006-48	Hood Pin With Attaching Chain
b.	900-4902-20	900-4902-20	Padlock for Hood Pin (Not Shown)
c.	P812	P812	Key for Padlock (Not Shown)
22.	626-300106	980-300349	Hood Flange
23 a.	626-300401	980-300424	Bottom Swivel Ring for Manual Swivel Discharge
b.	626-300401	980-0128-23	Bottom Swivel Ring for Hand Crank Swivel Discharge
c.	N/A	980-0122-18	Bottom Swivel Ring for Hydraulic Swivel Discharge
24.	626-200007	995-0500-08	Chipper Hood Stationary Half

-- Contact your nearest dealer or Bandit Industries for Fan Blade Assemblies

** Components vary, order according to S/N of chipper or physical description.

For Chipper Disc only contact your nearest dealer or Bandit Industries.

Model 65 Disc Shaft is part of Chipper Disc Assembly.



NOTICE Parts may not be exactly as shown.

Bandit

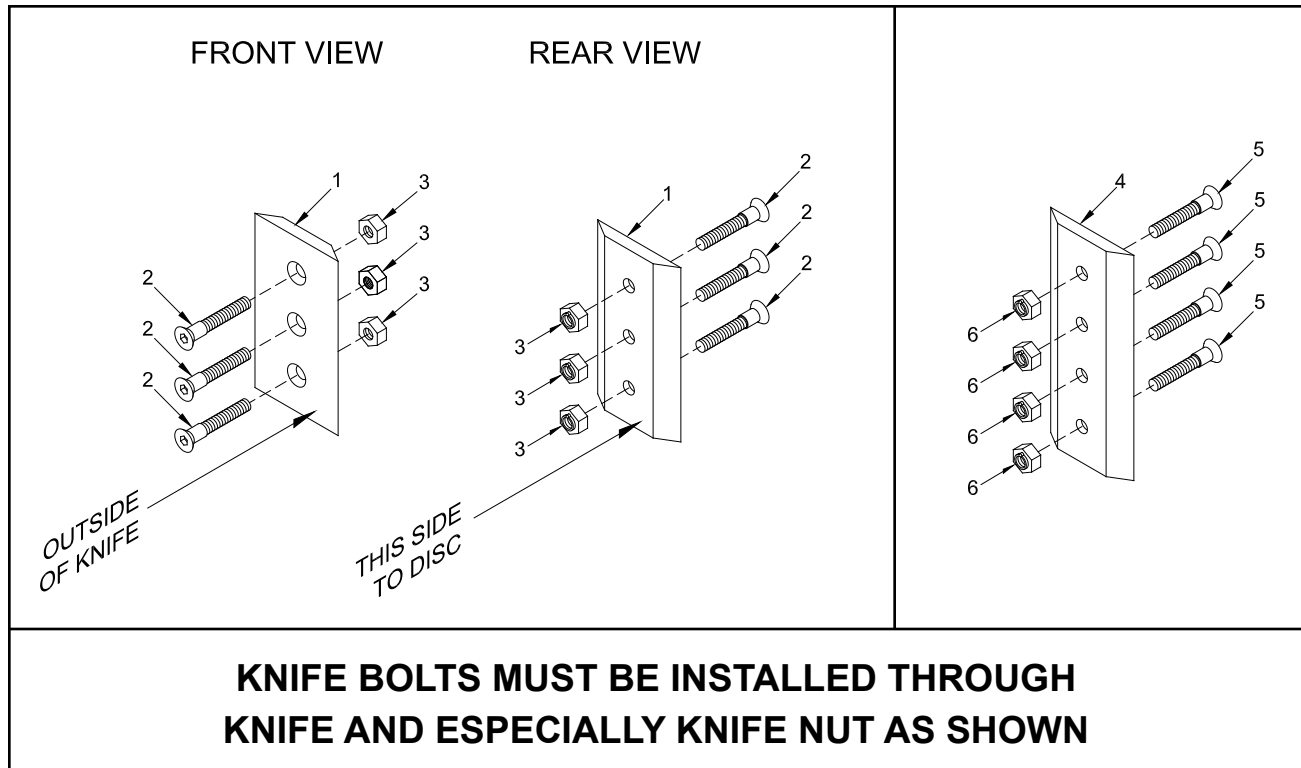
LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
25.	*_**	*_**	Fan Blade Assembly
26.	See #42	980-0110-87	Chipper Disc Shaft
27 a.	N/A	980-0126-63	Chipper Draw Ring
b.	N/A	900-4902-06	Chipper Draw Ring Bolt (Not Shown)
c.	N/A	900-4902-97	Chipper Draw Ring Nut (Not Shown)
28.	926-1000-58	N/A	Hydraulic Pump Coupler
29.	626-0004-09	N/A	Hydraulic Pump Torque Arm
30.	626-0002-47	N/A	Hydraulic Pump Torque Arm Stop
31.	**	**	Belt Shield
32.	**	**	Chipper Sheave
33.	**	**	Chipper Sheave Bushing
34.	**	**	Chipper Belt
35.	**	**	Engine Sheave Bushing
36.	**	**	Engine Sheave
37.	**	**	Hydraulic Pump Belt
38.	900-3900-69	900-3900-24	Grease Line for Rear Chipper Bearing
39 a.	900-1903-30	900-1900-34	Rear Chipper Bearing
b.	900-4901-21	900-4903-32	Rear Chipper Bearing Bolt (Not Shown)
c.	900-4906-87	900-4906-87	Lock Washer (Not shown)
40.	926-1002-61	980-0121-65	Rear Chipper Bearing Backer Plate
41.	See Page 97	See Page 97	4 Sided Anvil Assembly
42 a.	626-200060	See Page 95	2-Knife Disc With Shaft, Fan Blades, Knives, & Hardware
b.	626-200061	See Page 95	3-Knife Disc With Shaft, Fan Blades, Knives, & Hardware
c.	626-300084	See Page 95	Chipper Disc Lock Tube On Disc

*_** Contact your nearest dealer or Bandit Industries for Fan Blade Assemblies

** Components vary, order according to S/N of chipper or physical description.

For Chipper Disc only contact your nearest dealer or Bandit Industries.

Model 65 Disc Shaft is part of Chipper Disc Assembly.



Part Numbers For Model 65 Knives

LOCATION	PART NUMBER	DESCRIPTION
1.	900-9902-00	1/2" x 4" x 7 1/4" Chipper Knife
2.	900-4901-04	1/2"-13NC x 2" Chipper Knife Bolt (70-80 ft-lbs or 95-108 Nm of Torque)
3.	900-4900-27	1/2"-13NC Chipper Knife Nut

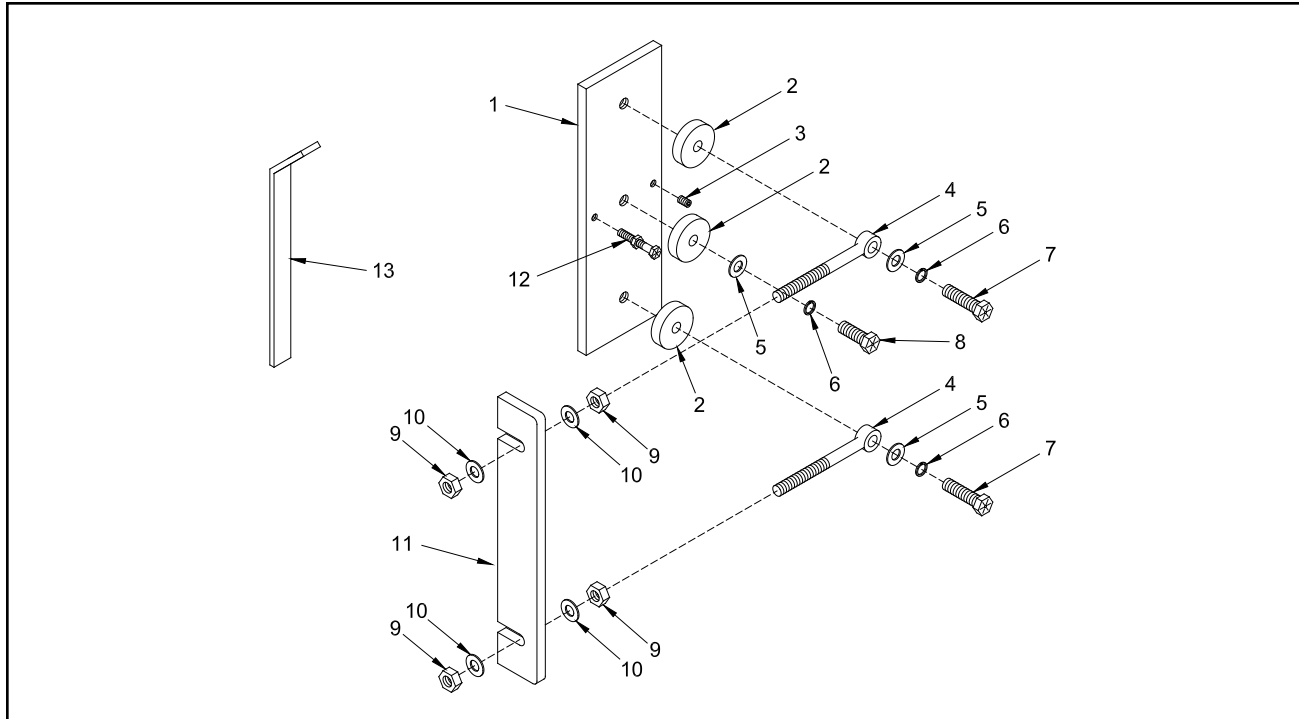
Part Numbers For Model 95 Knives

LOCATION	PART NUMBER	DESCRIPTION
4 a.	900-9901-17	9/16" x 3 5/8" x 10 1/8" Chipper Knife (Start 2/8/96)
b.	900-9900-94	9/16" x 2 3/4" x 10 1/8" Double Bevel Chipper Knife (Pre 2/8/96) (Not Shown)
5 a.	900-4900-53	1/2"-13NC x 2 1/2" Chipper Knife Bolt (Start 2/8/96) (70-80 ft-lbs or 95-108 Nm of Torque)
b.	900-4901-04	1/2"-13NC x 2" Chipper Knife Bolt (Pre 2/8/96) (70-80 ft-lbs or 95-108 Nm of Torque)
6.	900-4900-27	1/2"-13NC Chipper Knife Nut

Part Numbers For Miscellaneous Knife Parts

LOCATION	PART NUMBER	DESCRIPTION
7.	900-9901-68	Knife Saver Kit (Not Shown)
8.	900-9901-65	File For Knife Saver Kit Only (Not Shown)
9.	900-9901-63	Replacement Blades For Knife Saver (Not Shown)

NOTICE Parts may not be exactly as shown.



LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
1 a.	626-300094	995-0001-67	Anvil Only - 4 Sided
b.	626-0003-13	995-0001-68	"AR" Anvil Only - 4 Sided
2.	900-4902-63	995-0001-00	Anvil Washer (Model 95 has square washers)
3 a.	900-4903-54	N/A	5/16"-18NC x 1/2" Set Screw
b.	N/A	900-4903-56	5/16"-18NC x 3/4" Set Screw
4 a.	900-4905-43	N/A	Anvil Eye Bolt - 1/2"-13NC x 3 1/2"
b.	N/A	900-4905-11	Anvil Eye Bolt - 5/8"-11NC x 6"
5.	900-4906-88	N/A	1/2" Flat Washer
6 a.	900-4900-31	N/A	1/2" High Collar Lock Washer
b.	N/A	900-4906-87	5/8" Lock Washer
7 a.	900-4900-74	N/A	1/2"-13NC x 2" Hex Head Bolt
b.	N/A	900-4906-95	5/8"-11NC x 2 1/2" Hex Head Bolt
8 a.	900-4906-72	N/A	1/2"-13NC x 1 1/2" Hex Head Bolt
b.	N/A	900-4906-93	5/8"-11NC x 1 3/4" Hex Head Bolt
9 a.	900-4906-82	N/A	1/2"-13NC Hex Nut
b.	N/A	900-4907-04	5/8"-11NC Hex Nut
10 a.	900-4906-90	N/A	1/2" USS Flat Washer
b.	N/A	900-4907-10	5/8" USS Flat Washer
11.	626-300095	995-0001-72	Anvil Puller Block
12 a.	900-4902-17	900-4902-17	5/16"-18NC x 2" Hex Head Bolt
b.	900-4902-18	900-4902-18	5/16"-18NC Hex Nut
13.	981-1006-16	981-1006-16	Anvil Gauge
14.	626-0500-77	995-0500-12	Anvil Hardware Only (Includes 2 Through 10, & 12)
15.	626-0500-69	995-0500-39	Anvil and Hardware Kit (Includes 1a Through 10, & 12)

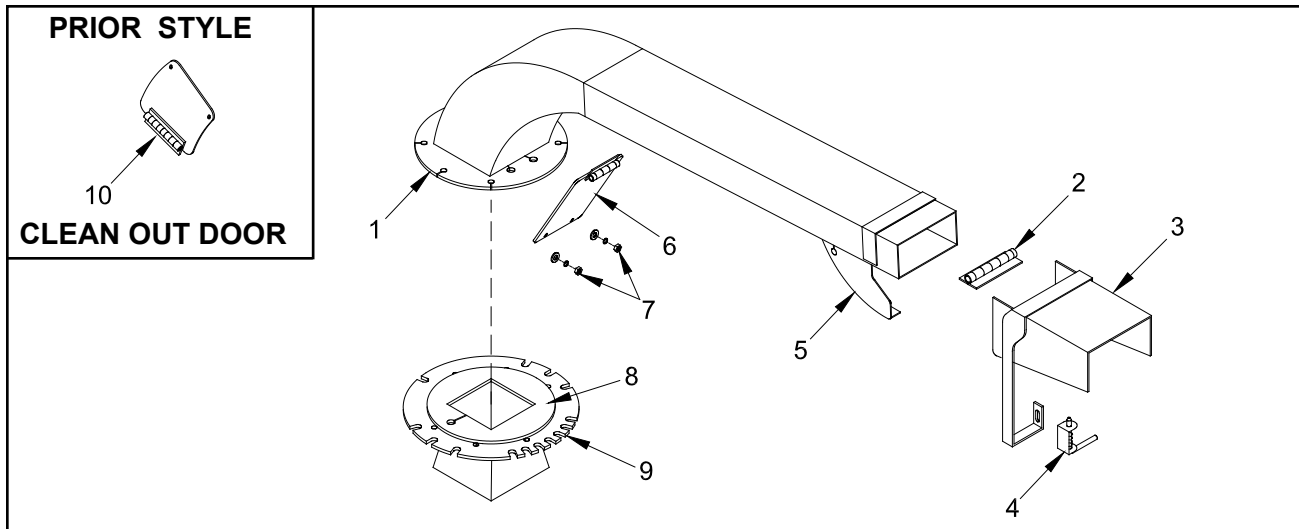
Model 65 Anvil Bolt Torque: 65-75 ft.-lbs. (88-102 Nm)

Model 95 Anvil Bolt Torque: 120 ft.-lbs. (163 Nm)

NOTICE Parts may not be exactly as shown.

Bandit

STANDARD DISCHARGE



LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
1.	626-300108	980-0127-33	Discharge Bottom Swivel Ring
2.	626-300114	981-1001-63	Discharge Flipper Hinge
3 a.	626-200037	980-0509-26	12" Discharge Flipper Assembly (Includes 2 & 4)
b.	626-200038	980-0510-25	12" Enclosed Discharge Flipper Assembly (Includes 2 & 4)
c.	N/A	980-0505-90	30" Discharge Flipper Assembly
4.	900-4901-83	900-4901-83	Discharge Flipper Adjusting Spring
5 a.	626-200039	980-0510-23	Adjusting Spring Lock Plate Assembly For Standard Flipper
b.	626-200040	980-0510-24	Adjusting Spring Lock Plate Assembly For Enclosed Flipper
6.	626-300385	980-300616	Optional Clean Out Door (Optional On All Discharges)
7 a.	900-4910-73	900-4910-73	5/16"-18NC Hex Nut
b.	900-4906-47	900-4906-47	5/16" Lock Washer
c.	900-4906-48	900-4906-48	5/16" Flat Washer
8.	626-300106	980-300349	Hood Flange
9.	626-300401	980-300424	Bottom Swivel Ring
10.	626-0501-07	980-0509-94	Optional Clean Out Door Assembly (Pre 9/06)
11 a.	900-4910-54	N/A	Discharge Transport Bolt - 3/8"-16NC x 1 1/2" (Not Shown)
b.	900-4906-60	N/A	Discharge Transport Nut - 3/8"-16NC (Not Shown)
c.	N/A	900-4911-04	Discharge Transport Bolt - 5/8"-11NC x 1 1/2" (Not Shown)
d.	N/A	900-4903-25	Discharge Transport Nut - 5/8"-11NC (Not Shown)

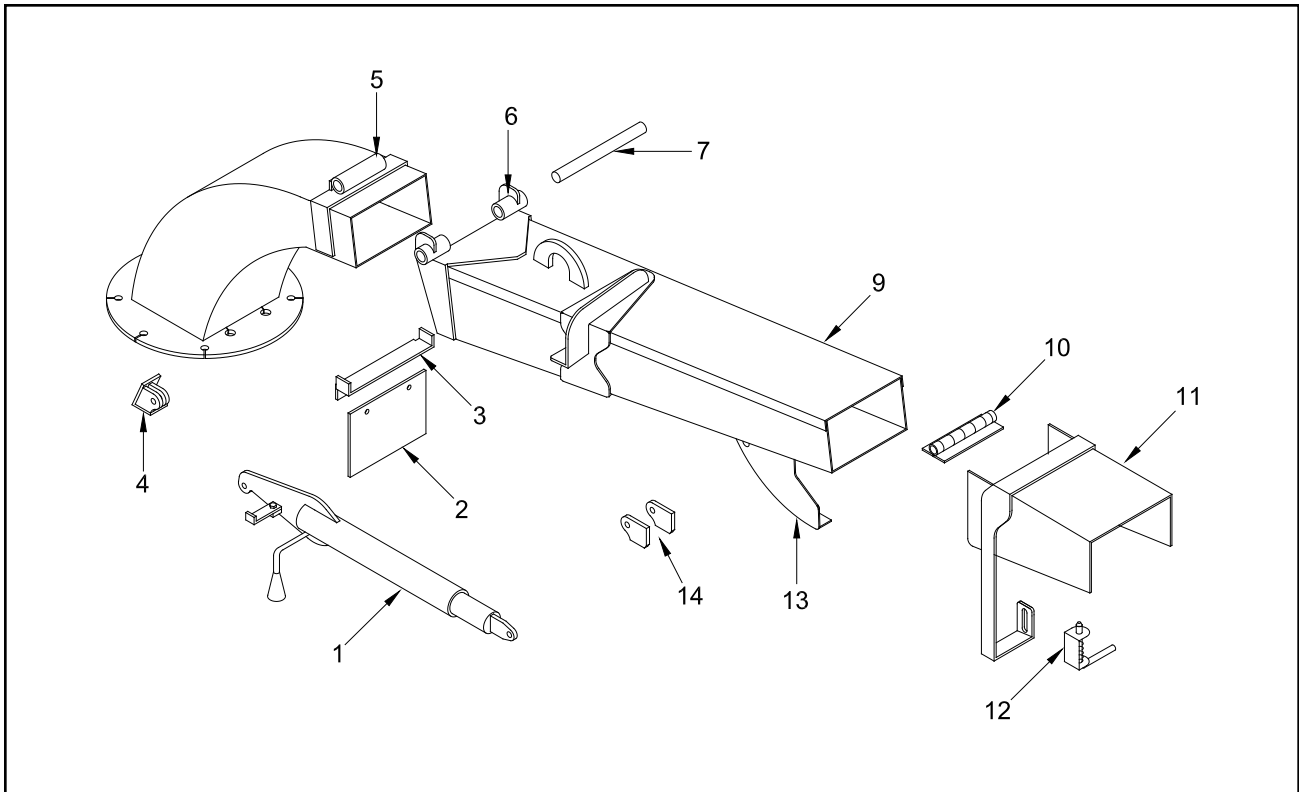
DISCHARGE ASSEMBLIES

LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
1.	626-200016	986-0501-23	Standard Discharge Assembly
2.	626-200041	986-0502-13	Hand Crank And Adjustable Height Discharge Assembly
3.	626-200042	986-0501-85	Hand Crank Discharge Assembly
4.	N/A	986-0502-14	Hydraulic Swivel And Adjustable Height Discharge Assembly
5.	N/A	986-0501-84	Hydraulic Swivel Discharge Assembly
6.	626-200015	986-0501-76	Adjustable Height Discharge Assembly
7.	626-20001-06	N/A	Bagger Discharge Assembly (7" Wide Base)

NOTICE Parts may not be exactly as shown.

Bandit

HAND CRANK ADJ. HEIGHT DISCHARGE

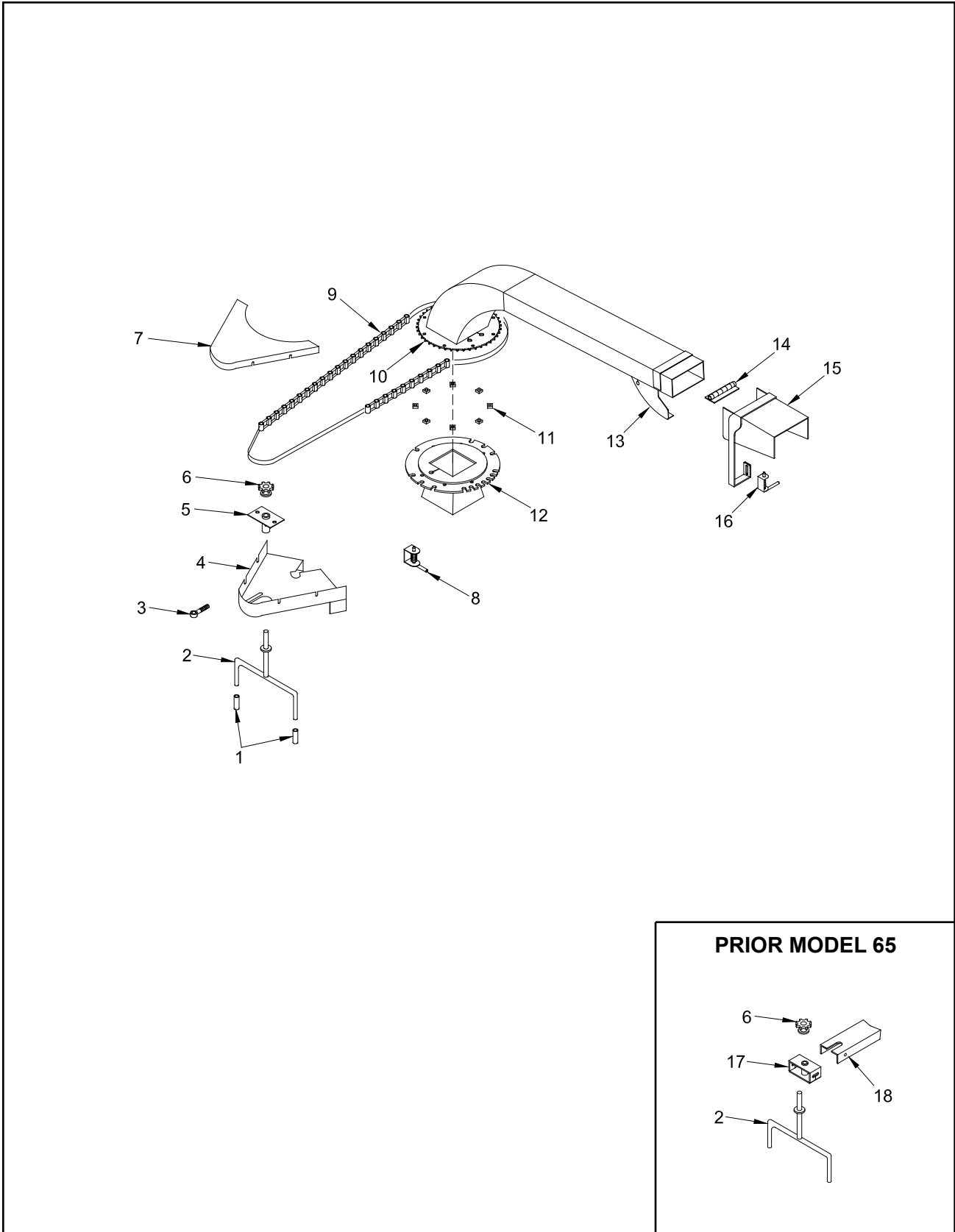


LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
1 a.	980-0510-86	980-0510-86	Hand Crank For Adj. Height Discharge - Mounted On The Side
b.	980-0508-51	980-0508-51	Hand Crank For Adj. Height Discharge - Mounted Underneath
2.	626-300157	980-0126-12	Rubber Discharge Guard
3.	626-300272	937-300318	Rubber Discharge Guard Mount
4.	980-300032	980-300032	Hand Crank Adj. Height Mount Brackets
5.	626-300200	980-300210	Hand Crank Adj. Height Hinge Large Hinge Tube
6.	980-300211	980-300211	Hand Crank Adj. Height Small Hinge Tube
7.	626-300201	980-300209	Hand Crank Adj. Height Hinge Pin
8.	626-200043	980-200091	Hand Crank Adj. Height Hinge Assembly (Includes #'s 5 - 7)
9.	626-200015	980-200089	Straight Section Hand Crank Adj. Height Discharge
10.	626-300114	981-1001-63	Discharge Flipper Hinge
11 a.	626-200037	980-0509-26	12" Discharge Flipper Assembly (Includes 10 & 12)
b.	626-200038	980-0510-25	12" Enclosed Discharge Flipper Assembly (Includes 10 & 12)
c.	N/A	980-0505-90	30" Discharge Flipper Assembly
12.	900-4901-83	900-4901-83	Discharge Flipper Adjusting Spring
13 a.	626-200039	980-0510-23	Adjusting Spring Lock Plate Assembly For Standard Flipper
b.	626-200040	980-0510-24	Adjusting Spring Lock Plate Assembly For Enclosed Flipper
14.	980-300032	980-300032	Hand Crank Adj. Height Mount Brackets
15 a.	900-4910-54	N/A	Discharge Transport Bolt - 3/8"-16NC x 1 1/2" (Not Shown)
b.	900-4906-60	N/A	Discharge Transport Nut - 3/8"-16NC (Not Shown)
c.	N/A	900-4911-04	Discharge Transport Bolt - 5/8"-11NC x 1 1/2" (Not Shown)
d.	N/A	900-4903-25	Discharge Transport Nut - 5/8"-11NC (Not Shown)

NOTICE Parts may not be exactly as shown.

Bandit

HAND CRANK SWIVEL DISCHARGE



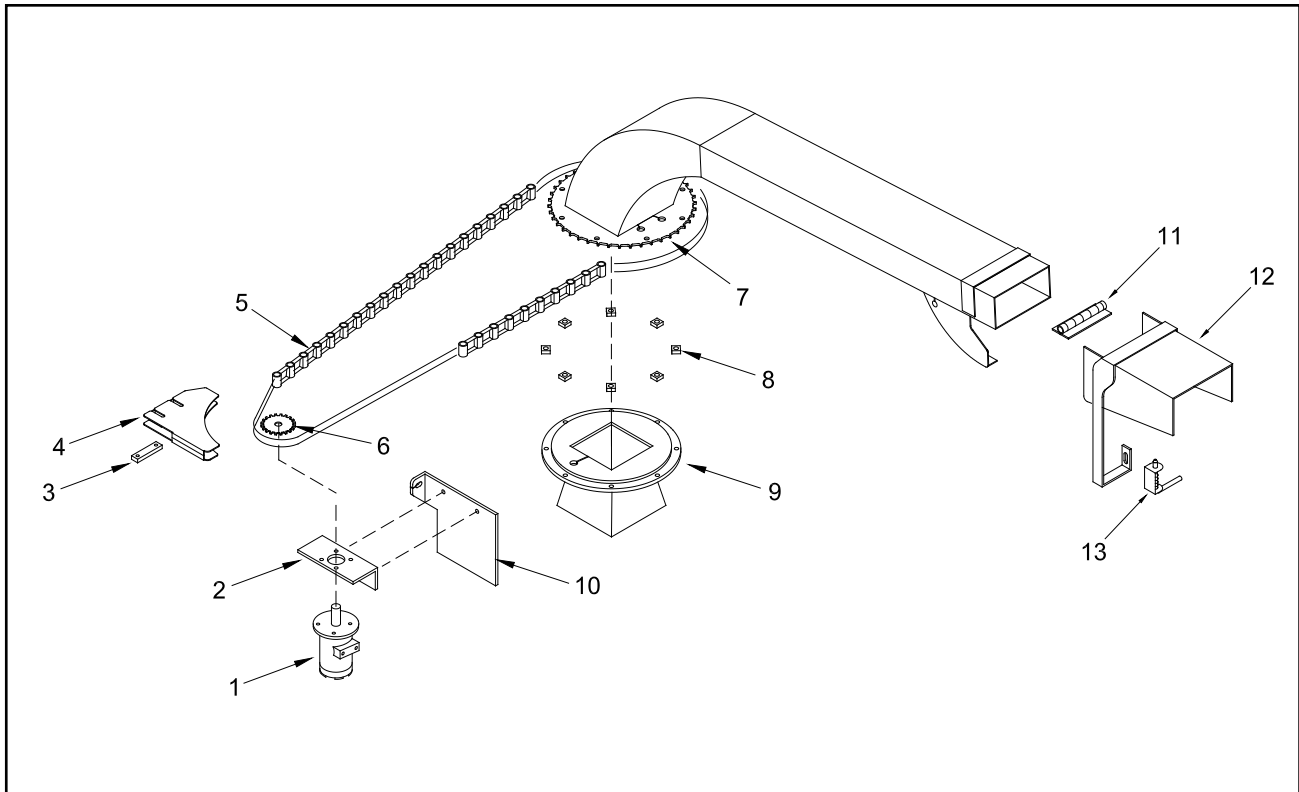
NOTICE Parts may not be exactly as shown.

Bandit

HAND CRANK SWIVEL DISCHARGE

LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
1.	900-7900-96	900-7900-96	Rubber Cap
2.	980-0509-41	980-0509-41	T-Handle Assembly
3.	900-4905-43	900-4905-43	Eye Bolt Adjuster For Hand Crank Swivel Discharge
4 a.	626-300325	980-200113	Bottom Chain Guard - Rounded Style
b.	N/A	980-0138-21	Bottom Chain Guard - Square Style
5.	626-200097	980-200006	Chain Adjuster Assembly
6 a.	900-1905-59	900-1905-59	T-Handle Sprocket
b.	980-0125-82	980-0125-82	Key For Sprocket (Not Shown)
7 a.	626-300326	980-200108	Steel Top Chain Guard - Rounded Style
b.	N/A	900-9904-64	Plastic Top Chain Guard - Rounded Style
c.	N/A	980-0138-22	Steel Top Chain Guard - Square Style
8.	900-4901-83	900-4904-90	Spring Plunger
9 a.	900-1901-20	900-1901-20	#50 Roller Chain
b.	900-1901-18	900-1901-18	Half Link - Chain (Not Shown)
c.	900-1901-19	900-1901-19	Master Link - Chain (Not Shown)
10.	626-300193	980-0127-32	Sprocket For Hand Crank Swivel Discharge (Weld On)
11.	900-4905-00	980-0137-35	Spacer Block
12.	626-300107	980-0128-23	Bottom Swivel Ring
13 a.	626-200039	980-0510-23	Adjusting Spring Lock Plate Assembly For Standard Flipper
b.	626-200040	980-0510-24	Adjusting Spring Lock Plate Assembly For Enclosed Flipper
14.	626-300114	981-1001-63	Discharge Flipper Hinge
15 a.	626-200037	980-0509-26	12" Discharge Flipper Assembly (Includes 14 & 16)
b.	626-200038	980-0510-25	12" Enclosed Discharge Flipper Assembly (Includes 14 & 16)
c.	N/A	980-0505-90	30" Discharge Flipper Assembly
16.	900-4901-83	900-4901-83	Discharge Flipper Adjusting Spring
17.	980-0509-40	N/A	Chain Adjuster Assembly (Pre 3/06 approximately)
18.	626-300177	N/A	Hand Crank Swivel Mount (Pre 3/06 approximately)
19 a.	900-4910-54	N/A	Discharge Transport Bolt - 3/8"-16NC x 1 1/2" (Not Shown)
b.	900-4906-60	N/A	Discharge Transport Nut - 3/8"-16NC (Not Shown)
c.	N/A	900-4911-04	Discharge Transport Bolt - 5/8"-11NC x 1 1/2" (Not Shown)
d.	N/A	900-4903-25	Discharge Transport Nut - 5/8"-11NC (Not Shown)

MODEL 95 - HYDRAULIC SWIVEL DISCHARGE

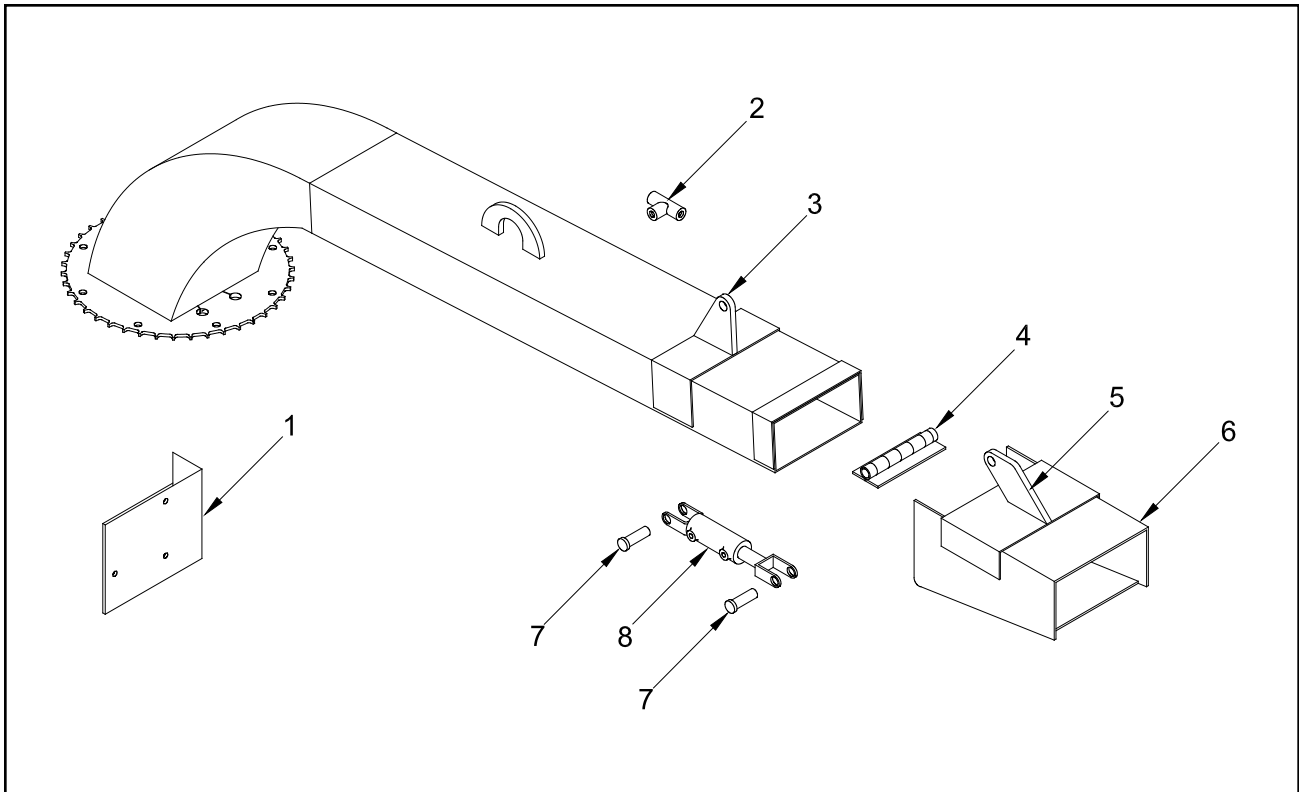


LOCATION	MODEL 95 PART NUMBER	DESCRIPTION
1 a.	900-3921-57	Discharge Swivel Hydraulic Motor - SAE O-ring
1 b.	900-3902-14	Discharge Swivel Hydraulic Motor - Pipe Fitting
2.	980-0110-66	Hydraulic Swivel Mount
3.	980-0126-04	Chain Guard Mount
4.	980-200086	Hydraulic Swivel Chain Guard
5 a.	900-1901-20	#50 Roller Chain
5 b.	900-1901-18	Half Link- Chain (Not Shown)
5 c.	900-1901-19	Master Link - Chain (Not Shown)
6.	900-1901-21	Sprocket For Hydraulic Motor
7.	980-0110-63	Sprocket For Discharge (Weld On)
8.	980-0137-35	Spacer Block
9.	980-0122-18	Bottom Swivel Ring
10.	914-1006-17	Hydraulic Swivel Motor Mount
11.	981-1001-63	Discharge Flipper Hinge
12 a.	980-0509-26	12" Discharge Flipper Assembly (Includes 11 & 13)
12 b.	980-0510-25	12" Enclosed Discharge Flipper Assembly (Includes 11 & 13)
12 c.	980-0505-90	30" Discharge Flipper Assembly
13.	900-4901-83	Discharge Flipper Adjusting Spring
14 a.	900-4911-04	Discharge Transport Bolt - 5/8"-11NC x 1 1/2" (Not Shown)
14 b.	900-4903-25	Discharge Transport Nut - 5/8"-11NC (Not Shown)

NOTICE Parts may not be exactly as shown.

Bandit

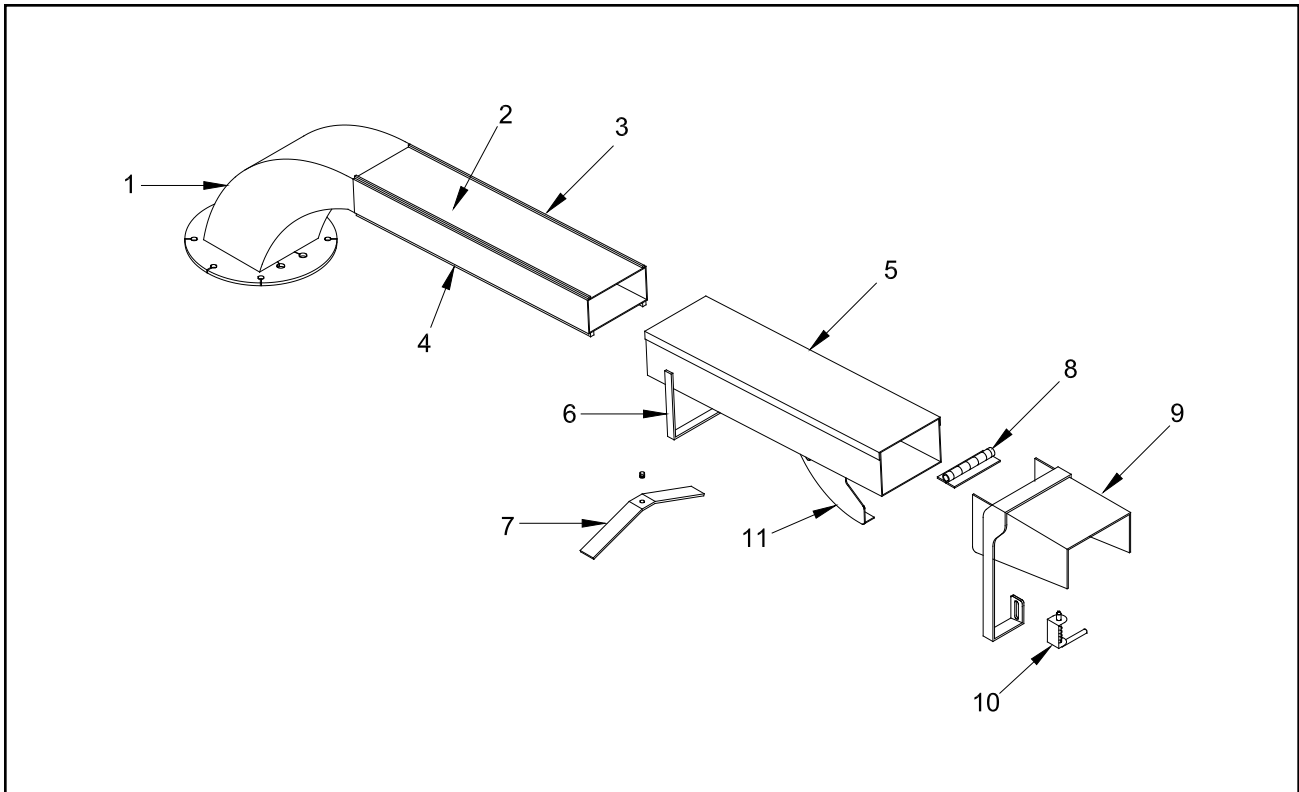
MODEL 95 - DISCHARGE WITH HYDRAULIC FLIPPER



LOCATION	MODEL 95 PART NUMBER	DESCRIPTION
1.	980-0128-78	Hydraulic Flipper Control Valve Mount Plate
2.	900-3925-18	Check Valve
3.	960-0006-42	Straight Section Cylinder Lug
4.	981-1001-63	Hydraulic Flipper Hinge
5.	980-0126-48	Flipper Lug
6.	980-0510-02	Hydraulic Flipper Assembly - Enclosed (Includes 4 & 5)
7.	900-3930-71	Cylinder Lug Pin - 3/4" Dia. x 2 1/2" & Cotter Pin - 1/4" x 1 1/2"
8.	900-3928-16	Hydraulic Flipper Cylinder
9.	900-3916-62	Swivel Discharge & Discharge Flipper Control Valve (Not Shown)
10 a.	900-4911-04	Discharge Transport Bolt - 5/8"-11NC x 1 1/2" (Not Shown)
b.	900-4903-25	Discharge Transport Nut - 5/8"-11NC (Not Shown)

NOTICE Parts may not be exactly as shown.

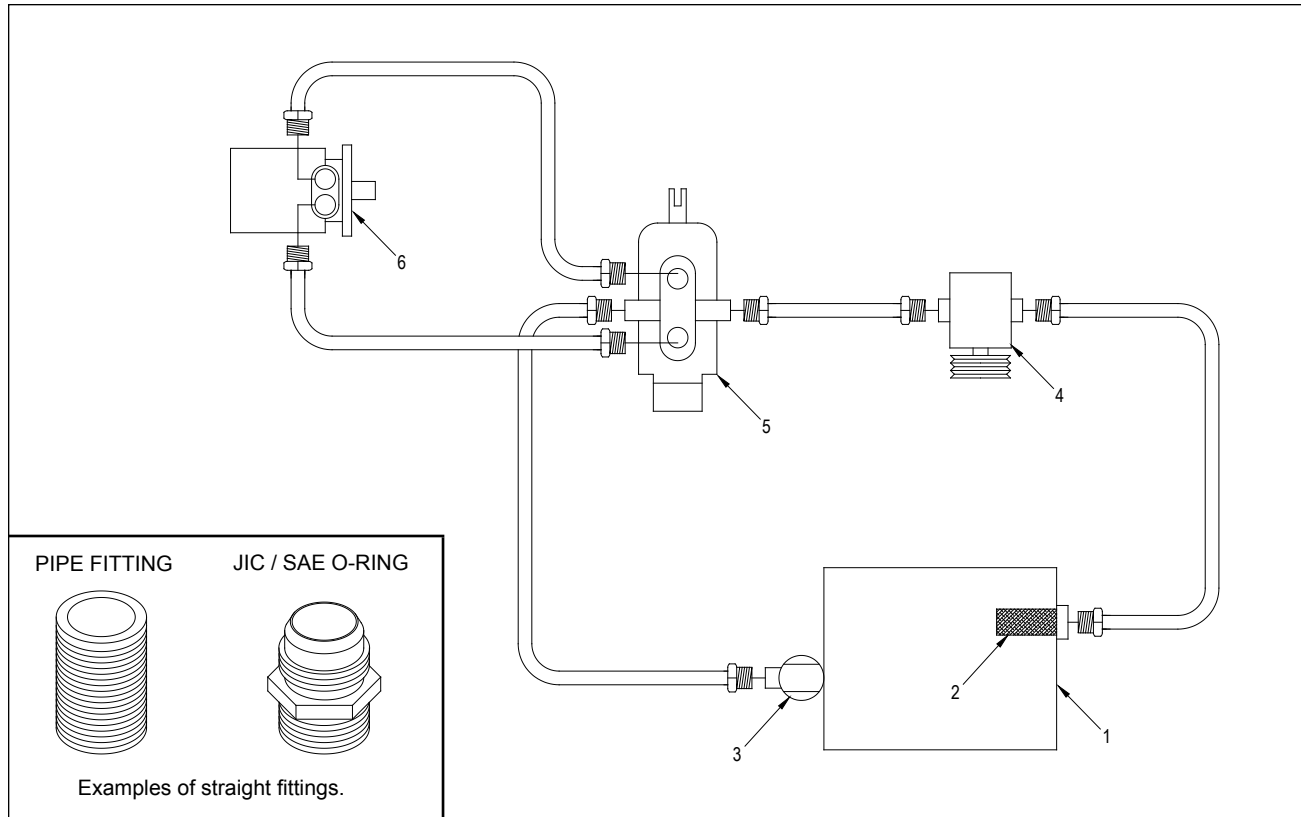
MODEL 95 - TELESCOPIC DISCHARGE



LOCATION	MODEL 95 PART NUMBER	DESCRIPTION
1.	980-0510-03	Telescopic Discharge Assembly
2.	980-0510-26	Telescopic Discharge Straight Section Assembly
3.	980-0120-11	Telescopic Discharge Top Wear Slide
4.	980-0120-12	Telescopic Discharge Bottom Wear Slide
5.	980-0510-27	Telescopic Discharge Slide Section
6.	980-0120-09	Telescopic Discharge Slide Arm
7.	980-0505-68	Telescopic Discharge Lock Handle
8.	981-1001-63	Discharge Flipper Hinge
9 a.	980-0509-26	12" Discharge Flipper Assembly (Includes 8 & 10)
b.	980-0510-25	12" Enclosed Discharge Flipper Assembly (Includes 8 & 10)
c.	980-0505-90	30" Discharge Flipper Assembly
10.	900-4901-83	Discharge Flipper Adjusting Spring
11 a.	980-0510-23	Adjusting Spring Lock Plate Assembly For Standard Flipper
b.	980-0510-24	Adjusting Spring Lock Plate Assembly For Enclosed Flipper
12 a.	900-4911-04	Discharge Transport Bolt - 5/8"-11NC x 1 1/2" (Not Shown)
b.	900-4903-25	Discharge Transport Nut - 5/8"-11NC (Not Shown)

NOTICE Parts may not be exactly as shown.

**TYPICAL MODELS 65/95 HYDRAULIC SCHEMATIC
(With No Options)**



LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
1.	See Pages 126-127	See Page 128-129	Hydraulic Tank
2.	900-3900-07	900-3900-07	Hydraulic Tank Strainer
3 a.	900-3900-09	900-3900-09	Filter Head
b.	900-3900-10	900-3900-10	Filter
4.	**	**	Hydraulic Pump
5 a.	900-3920-06A	900-3920-06A	Feedwheel Control Valve With Relief - SAE O-ring
b.	900-3909-89	900-3909-89	Feedwheel Control Valve With Relief - Pipe Fitting
6 a.	900-3927-67	900-3908-68	Feedwheel Hydraulic Motor (Tapered Shaft)
b.	N/A	900-3908-19	Feedwheel Hydraulic Motor (RE-32 With Straight Shaft)
c.	N/A	900-3906-30	Feedwheel Hydraulic Motor (RE-45 With Straight Shaft)

NOTICE Make sure to order components according to fitting type, fittings may vary on all components.

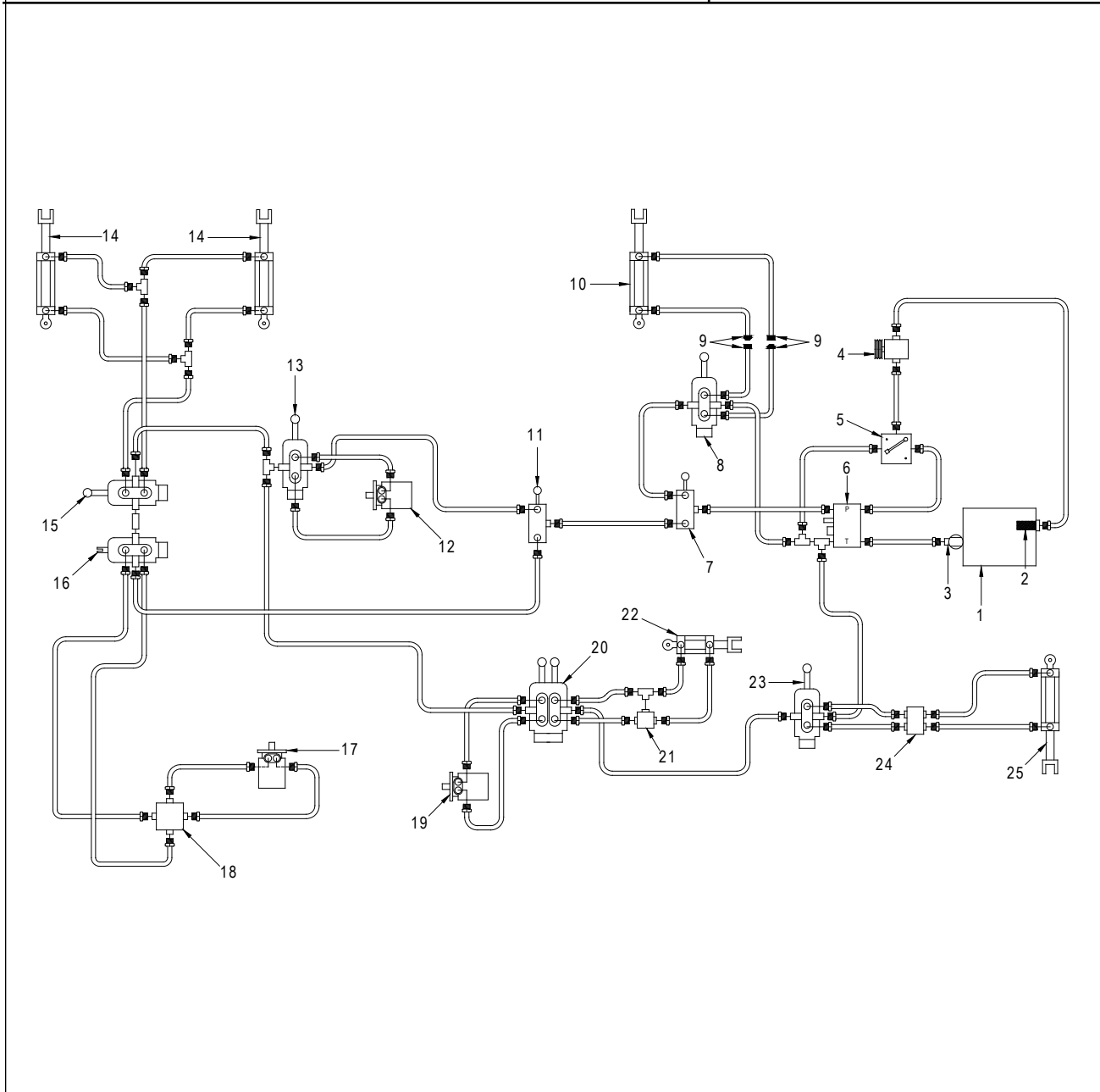
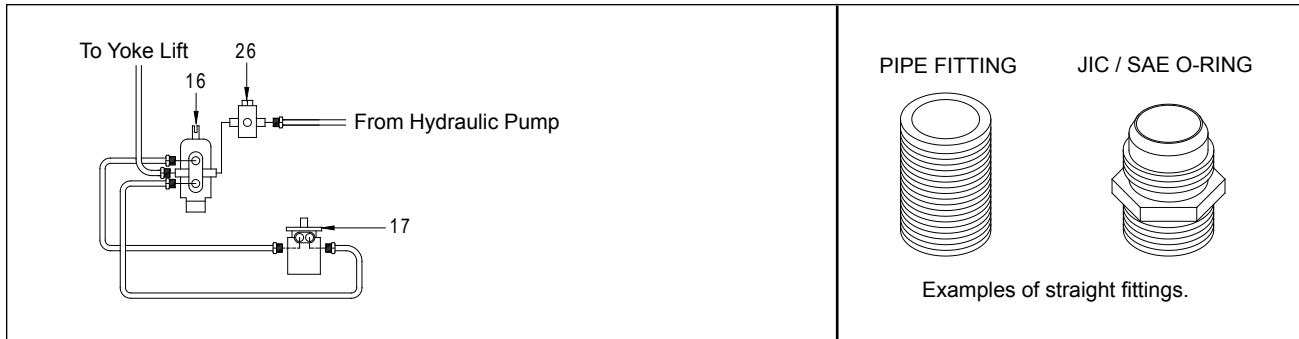
** Hydraulic components, fittings, hoses will vary depending on optional equipment. Order by physical description.

** Hydraulic pumps need to be ordered by physical description and serial number of machine.

NOTICE Parts may not be exactly as shown.

Bandit

TYPICAL MODELS 65/95 HYDRAULIC SCHEMATIC (With Options)



NOTICE Parts may not be exactly as shown.

Bandit

**TYPICAL MODELS 65/95
HYDRAULIC SCHEMATIC (With Options)**

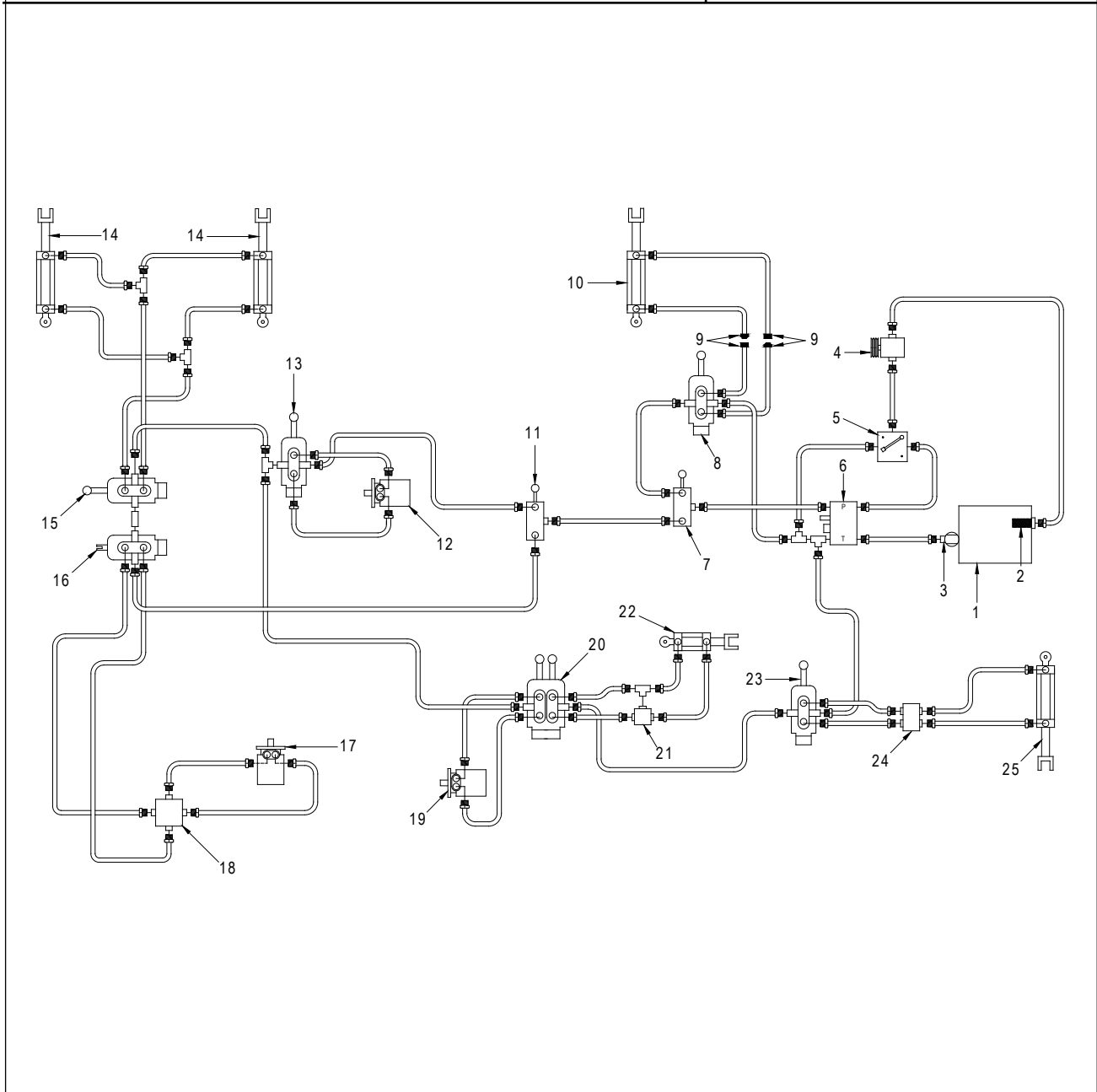
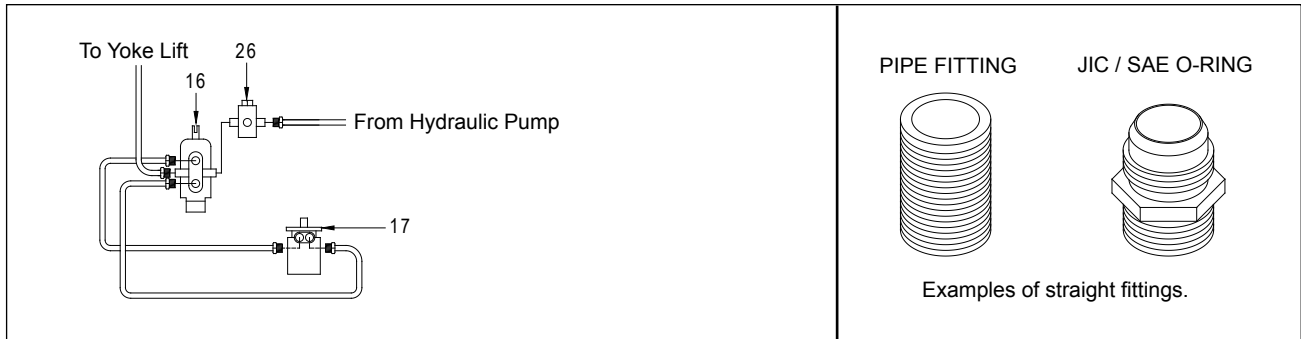
	MODEL 65	MODEL 95	
LOCATION	PART NUMBER	PART NUMBER	DESCRIPTION
1.	See Page 126-127	See Page 128-129	Hydraulic Tank
2.	900-3900-07	900-3900-07	Hydraulic Tank Strainer
3 a.	900-3900-09	900-3900-09	Filter Head
b.	900-3900-10	900-3900-10	Filter
4.	**	**	Hydraulic Pump
5 a.	900-3924-56	900-3924-56	Variable Speed Control Valve - SAE O-ring
b.	900-3911-53	900-3911-53	Variable Speed Control Valve - Pipe Fitting
6.	See Pages 114-115	See Pages 114-115	Relief Block With Autofeed Option
7 a.	900-3936-39	900-3936-39	Chip Box Selector Control Valve - SAE O-ring (Replaces 900-3920-58)
b.	900-3913-41	900-3913-41	Chip Box Selector Control Valve - Pipe Fitting
c.	900-3936-40	900-3936-40	5/16" Replacement Stud For Selector Valve (900-3936-39)
d.	900-3924-48	900-3924-48	1/4" Replacement Stud For Selector Valve (900-3920-58 & 900-3913-41)
8 a.	900-3920-01	900-3920-01	Chip Box Lift Control Valve - SAE O-ring
b.	900-3901-42	900-3901-42	Chip Box Lift Control Valve - Pipe Fitting
9.	900-3906-84	900-3906-84	Quick Disconnects (Chip Box Option)
10.	900-3906-77	900-3906-77	Chip Box Lift Cylinder - Tie Rod (Chip Box Option)
11 a.	N/A	900-3936-39	Winch Selector Control Valve - SAE O-ring (Replaces 900-3920-58)
b.	N/A	900-3913-41	Winch Selector Control Valve - Pipe Fitting
c.	N/A	900-3936-40	5/16" Replacement Stud For Selector Valve (900-3936-39)
d.	N/A	900-3924-48	1/4" Replacement Stud For Selector Valve (900-3920-58 & 900-3913-41)
12 a.	N/A	900-3921-57	Winch Hydraulic Motor - SAE O-ring
b.	N/A	900-3902-14	Winch Hydraulic Motor - Pipe Fitting
13 a.	N/A	900-3920-01	Winch Control Valve - SAE O-ring
b.	N/A	900-3901-42	Winch Control Valve - Pipe Fitting
14 a.	N/A	900-3925-02	Yoke Lift Cylinder - Welded
b.	N/A	904-0007-14	Pin For Welded Cylinder (Not Shown)
c.	N/A	904-0006-90	Seal Kit - Welded Lift Cylinder (Not Shown)
d.	N/A	900-3905-37	Seal Kit - Tie Rod Lift Cylinder (Not Shown)
15 a.	N/A	900-3927-73	Yoke Lift Control Valve For Dual Control Yoke Lift - SAE O-ring
b.	N/A	900-3920-09	Yoke Lift Control Valve With Winch Option - SAE O-ring
c.	N/A	900-3908-62	Yoke Lift Control Valve With Winch Option - Pipe Fitting
d.	N/A	900-3920-02	Yoke Lift Control Valve Without Winch Option - SAE O-ring
e.	N/A	900-3901-24	Yoke Lift Control Valve Without Winch Option - Pipe Fitting
16 a.	900-3920-05	900-3920-05	Feedwheel Control Valve Without Relief - SAE O-ring
b.	900-3914-47	900-3914-47	Feedwheel Control Valve Without Relief - Pipe Fitting
17 a.	900-3927-67	900-3908-68	Feedwheel Hydraulic Motor (Tapered Shaft)
b.	N/A	900-3908-19	Feedwheel Hydraulic Motor (RE-32 With Straight Shaft)
c.	N/A	900-3906-30	Feedwheel Hydraulic Motor (RE-45 With Straight Shaft)
18.	See Pages 114-115	See Pages 114-115	Reversing "Autofeed Plus"

NOTICE Make sure to order components according to fitting type, fittings may vary on all components.

** Hydraulic components, fittings, hoses will vary depending on optional equipment. Order by physical description.

** Hydraulic pumps need to be ordered by physical description and serial number of machine.

TYPICAL MODELS 65/95 HYDRAULIC SCHEMATIC (With Options)



NOTICE Parts may not be exactly as shown.

Bandit

**TYPICAL MODELS 65/95
HYDRAULIC SCHEMATIC (With Options)**

LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
19 a.	N/A	900-3921-57	Swivel Discharge Hydraulic Motor - SAE O-ring
b.	N/A	900-3902-14	Swivel Discharge Hydraulic Motor - Pipe Fitting
20 a.	N/A	900-3916-62	Swivel Discharge & Discharge Flipper Control Valve
b.	N/A	900-3920-01	Swivel Discharge Control Valve Only - SAE O-ring (Not Shown)
c.	N/A	900-3901-42	Swivel Discharge Control Valve Only - Pipe Fitting (Not Shown)
21.	N/A	900-3925-18	Flipper Check Valve
22.	N/A	900-3928-16	Discharge Flipper Cylinder
23 a.	N/A	900-3920-01	Tongue Jack Control Valve - SAE O-ring
b.	N/A	900-3901-42	Tongue Jack Control Valve - Pipe Fitting
24.	N/A	900-3925-94	Tongue Jack Check Valve
25.	N/A	900-3934-24	Tongue Jack Cylinder - Welded
26.	N/A	900-3907-31	Relief Block - Machines With Yoke Lift & Without Autofeed
27 a.	980-100121	980-100121	In-Line Pressure Check Kit - With Autofeed
b.	980-100122	980-100122	In-Line Pressure Check Kit - Without Autofeed
c.	900-3935-13	900-3935-13	In-Line Pressure Check Kit - Pre Horizontal Winch Mount
28 a.	N/A	900-3906-31	Hydraulic Power Tool Outlet (Not Shown)
b.	N/A	900-3901-19	Selector For Power Tool Outlet (Not Shown)

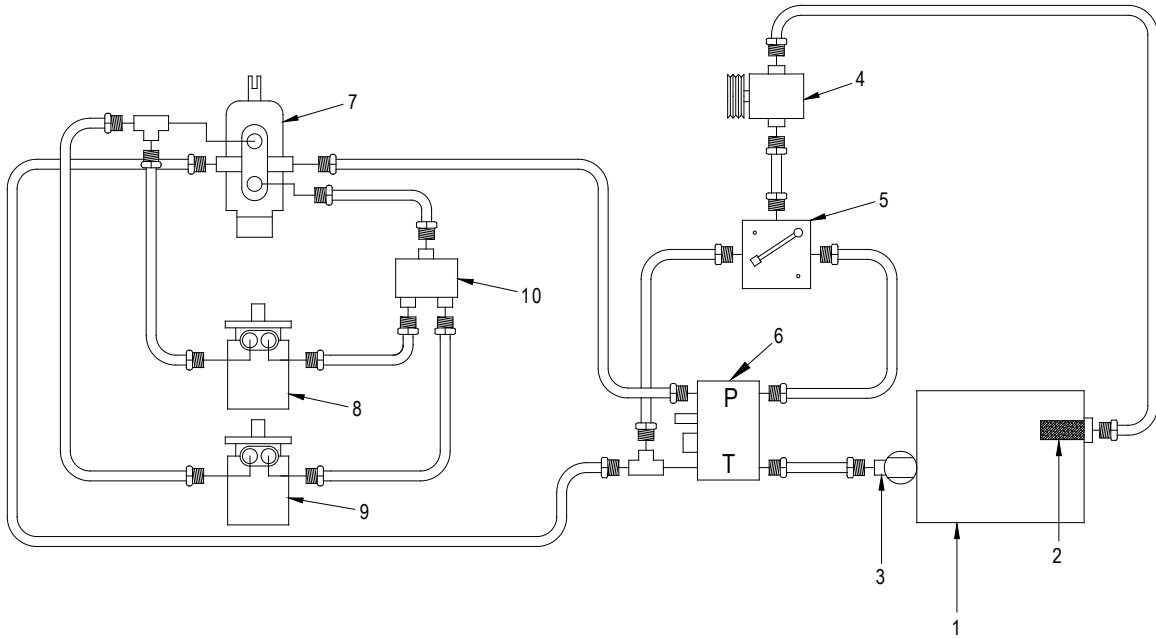
NOTICE Make sure to order components according to fitting type, fittings may vary on all components.

** Hydraulic components, fittings, hoses will vary depending on optional equipment. Order by physical description.

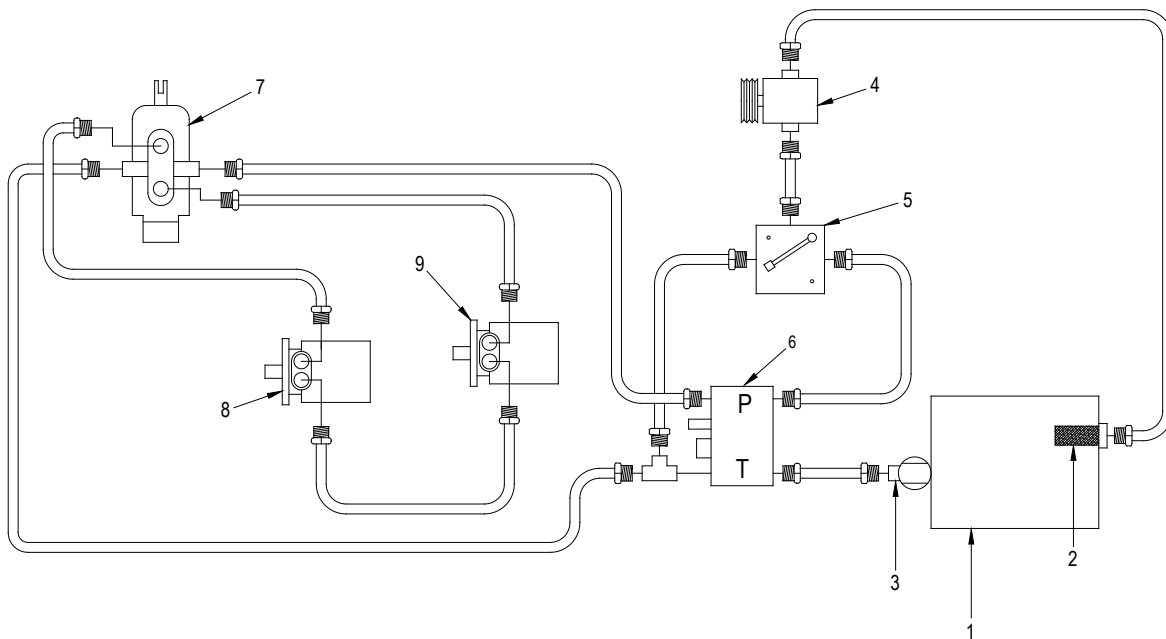
** Hydraulic pumps need to be ordered by physical description and serial number of machine.

MODEL 65 WITH DUAL FEEDWHEEL OPTION
HYDRAULIC SCHEMATIC

WITH FLOW DIVIDER (START 4/05)



WITHOUT FLOW DIVIDER (PRE 4/05)



NOTICE Parts may not be exactly as shown.

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**MODEL 65 WITH DUAL FEEDWHEEL OPTION
HYDRAULIC SCHEMATIC**

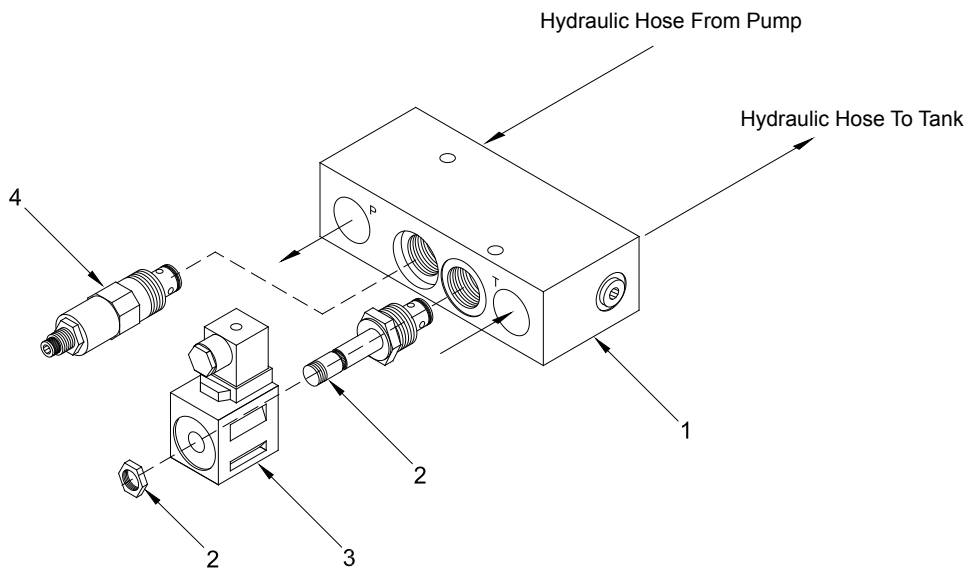
LOCATION	MODEL 65 PART NUMBER	DESCRIPTION
1.	See Pages 126-127	Hydraulic Tank
2.	900-3900-07	Hydraulic Tank Strainer
3 a.	900-3900-09	Filter Head
b.	900-3900-10	Filter
4.	**	Hydraulic Pump
5 a.	900-3924-56	Variable Speed Control Valve - SAE O-ring
b.	900-3911-53	Variable Speed Control Valve - Pipe Fitting
6.	See Pages 114-115	Relief Block With Autofeed Option
7 a.	900-3920-05	Feedwheel Control Valve Without Relief - SAE O-ring
b.	900-3914-47	Feedwheel Control Valve Without Relief - Pipe Fitting
8.	900-3927-67	Top Feedwheel Hydraulic Motor
9.	900-3944-21	Bottom Feedwheel Hydraulic Motor
10.	See Pages 116-117	Flow Divider (Start 4/05)
11 a.	980-100121	In-Line Pressure Check Kit - With Autofeed (Not Shown)
b.	980-100122	In-Line Pressure Check Kit - Without Autofeed (Not Shown)

NOTICE Make sure to order components according to fitting type, fittings may vary on all components.

** Hydraulic components, fittings, hoses will vary depending on optional equipment. Order by physical description.

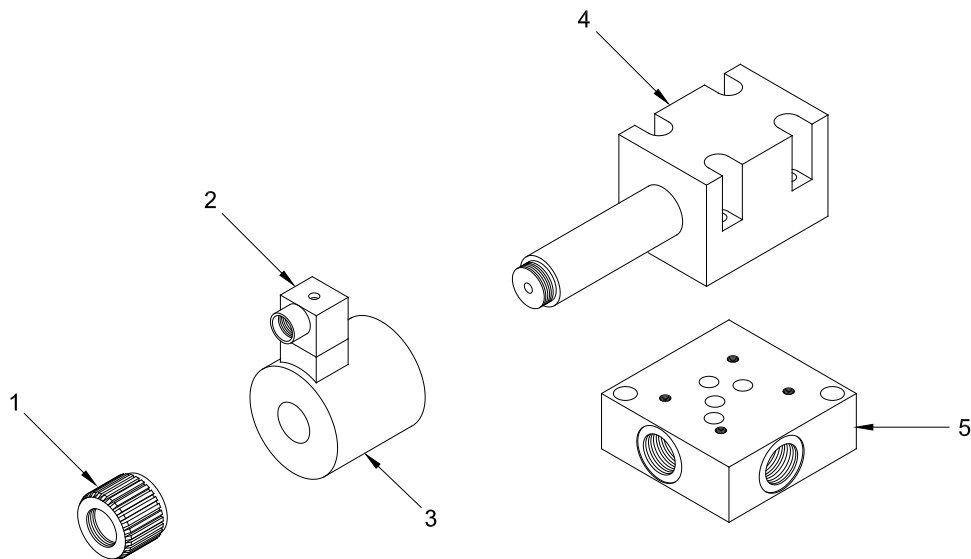
** Hydraulic pumps need to be ordered by physical description and serial number of machine.

RELIEF BLOCK



Torque Autofeed Cartridge Nut to a Maximum of 4 to 6 ft.-lbs. (5 to 8 Nm) and Install Loc-Tite 241.
Over Torque Will Cause Damage and Will Also Void Warranty.

**“AUTO FEED PLUS” SYSTEM
(SINGLE SOLENOID)**



Torque Retainer Nut to a Maximum of 4 to 6 ft.-lbs. (5 to 8 Nm) and Install Vibra Tite.
Over Torque Will Cause Damage and Will Also Void Warranty.

NOTICE Parts may not be exactly as shown.

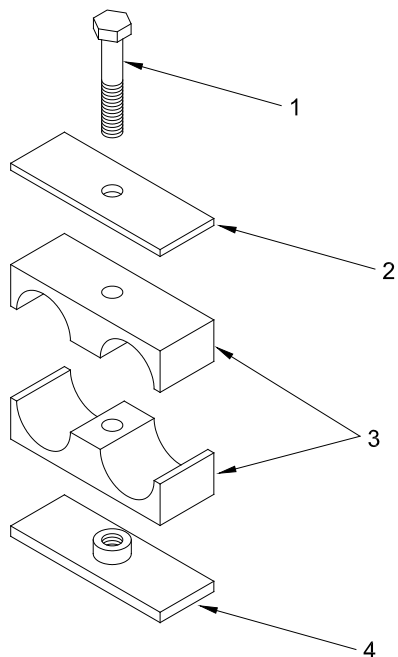
RELIEF BLOCK

LOCATION	PIPE FITTING	SAE O-RING	DESCRIPTION
1.	900-2900-82	N/A	Autofeed Block Only
2.	900-3923-43	900-3923-43	Autofeed Cartridge Only
3.	900-3923-44	900-3923-44	12 V Autofeed Solenoid Only
4 a.	900-3908-23	900-3908-23	Main Relief Only (Vickers)
b.	900-3919-96	900-3919-96	Main Relief Only (Danfoss)
5 a.	900-3907-55	900-3923-45	Autofeed Block Assembly With Relief
b.	900-3907-56	900-3923-37	Autofeed Block Assembly Without Relief
c.	900-3909-05	900-3923-48	Main Relief Block Ass'y (Used Without Autofeed)

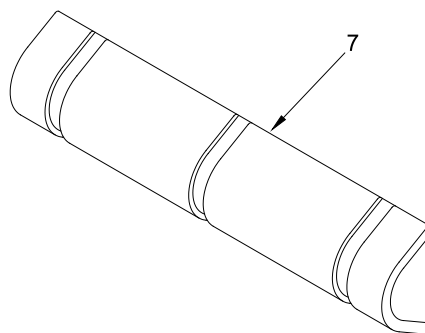
“AUTO FEED PLUS” SYSTEM (SINGLE SOLENOID)

LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
1 a.	N/A	900-3920-20	Retainer Nut and Sealing Ring (Danfoss)
b.	N/A	900-3915-19	Retainer Nut (Northman)
2.	900-2909-55	900-2909-55	Herschman Connector Only
3 a.	N/A	900-3920-19	Solenoid Only (Danfoss)
b.	N/A	900-3915-20	Solenoid Only (Northman)
4 a.	900-3925-40	900-3919-73	Solenoid Assembly (Danfoss Includes #'s 1,3,4, & 6)
b.	N/A	900-3918-39	Solenoid Assembly (Northman Includes #'s 1,3,4, & 6)
5 a.	N/A	900-3923-34	Autofeed Plus Relief Block Subplate (Edmore)
b.	900-3926-12	900-3918-43	Autofeed Plus Relief Block Subplate (DTS)
6 a.	N/A	4589960	Seal Kit For Danfoss Valve (Not Shown)
b.	N/A	900-3915-39	Seal Kit For Northman Valve (Not Shown)
7 a.	900-3925-89	900-3925-89	10' Cord and Molded Herschman Connector (Not Shown)
b.	900-3920-71	900-3920-71	16' Cord and Molded Herschman Connector (Not Shown)
c.	900-3918-63	900-3918-63	25' Cord and Molded Herschman Connector (Not Shown)

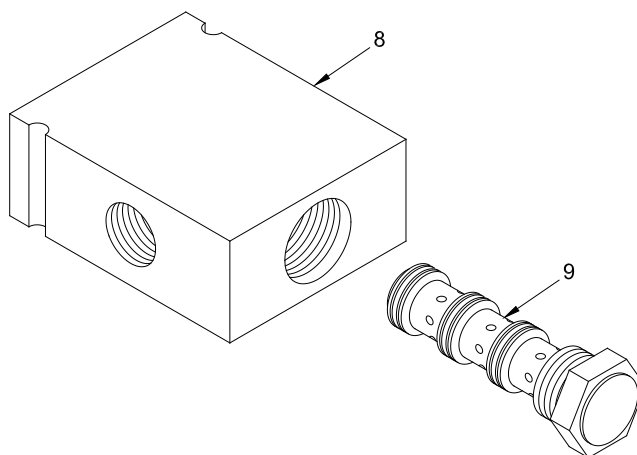
HOSE CLAMP



HOSE GUARD



FLOW DIVIDER - Model 65 With Dual Feedwheel Option (Start 4/05)



NOTICE Parts may not be exactly as shown.

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HOSE CLAMP

LOCATION	PART NUMBER	DESCRIPTION
1.	N/A	Bolt
2.	N/A	Locking Plate
3.	N/A	Plastic Clamp
4 a.	900-3914-09	Weld Plate for 1/4" Double Clamp
b.	900-3914-08	Weld Plate for 1/2" Double Clamp
c.	900-3926-47	Weld Plate for 3/4" Double Clamp
5 a.	900-3917-25	1/4" Double Clamp Assembly (Includes #'s 1-4)
b.	900-3926-44	3/8" Double Clamp Assembly (Includes #'s 1-4)
c.	900-3928-19	1/2" Single Clamp Assembly (Includes #'s 1-4)
d.	900-3914-02	1/2" Single Clamp Assembly For Steel Lines (Includes #'s 1-4)
e.	900-3915-61	1/2" Double Clamp Assembly (Includes #'s 1-4)
f.	900-3913-32	1/2" Double Clamp Assembly For Steel Lines (Includes #'s 1-4)
g.	900-3914-03	3/4" Single Clamp Assembly (Includes #'s 1-4)
h.	900-3914-07	3/4" Double Clamp Assembly (Includes #'s 1-4)
i.	900-3914-04	1" Single Clamp Assembly (Includes #'s 1-4)
j.	900-3914-05	1 1/4" Single Clamp Assembly (Includes #'s 1-4)
k.	900-3914-06	1 1/2" Single Clamp Assembly (Includes #'s 1-4)
6 a.	900-3914-10	Stacking Bolt for 1/2" Double Clamp (Not Shown)
b.	900-3920-11	Stacking Bolt for 3/4" Double Clamp (Not Shown)

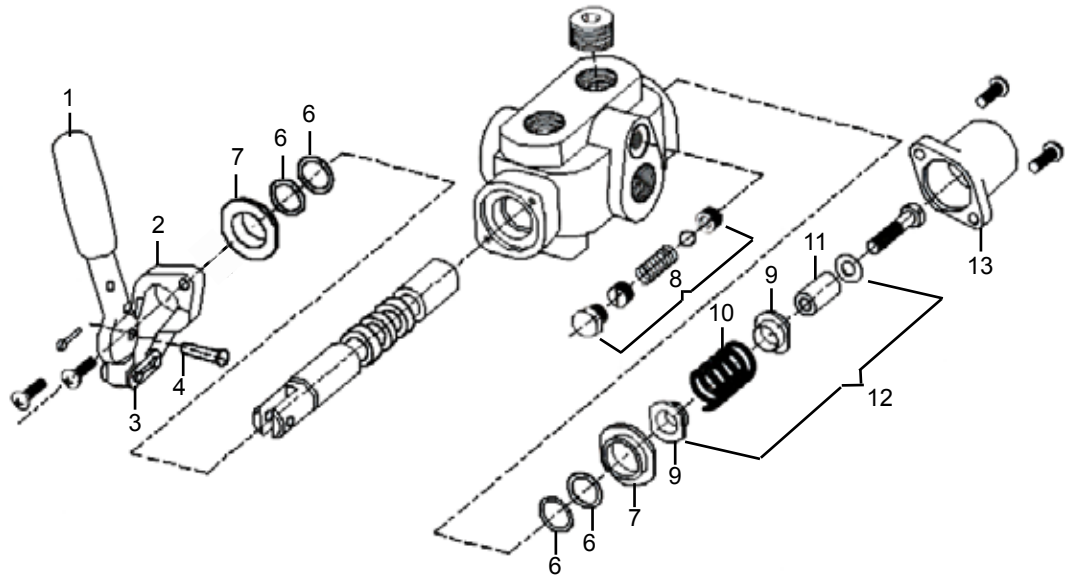
HOSE GUARD

LOCATION	PART NUMBER	DESCRIPTION
7 a.	900-3934-76	Hose Guard - 4" Long
b.	900-3934-77	Hose Guard - 6" Long
c.	900-3934-78	Hose Guard - 8" Long

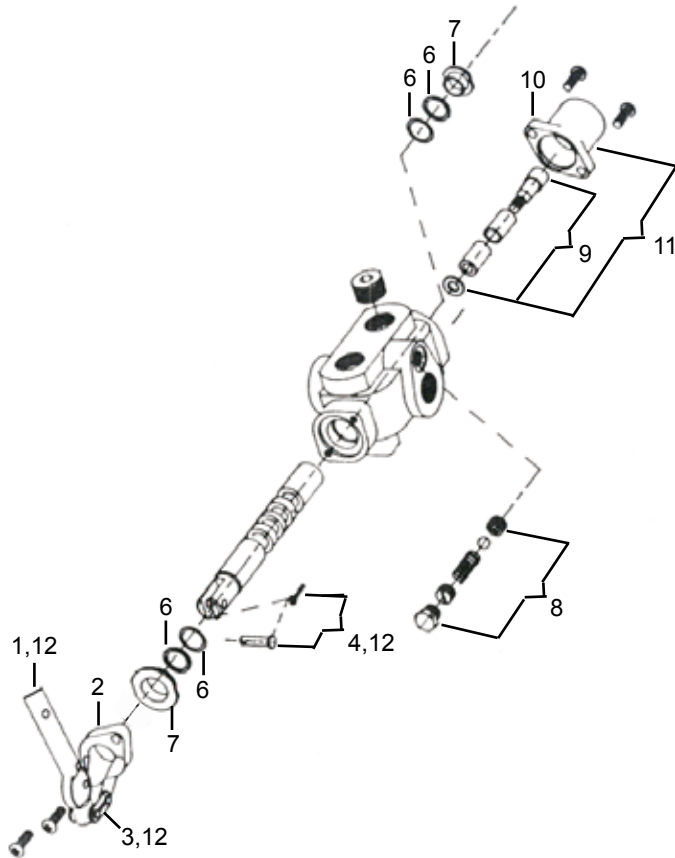
FLOW DIVIDER - Model 65 With Dual Feedwheel Option (Start 4/05)

LOCATION	PIPE FITTING	SAE O-RING	DESCRIPTION
8.	N/A	900-3923-35	Flow Divider Body With Cartridge
9.	N/A	900-3923-36	Flow Divider Cartridge Only

TYPICAL SPRING LOADED CONTROL VALVE



TYPICAL FEEDWHEEL CONTROL VALVES



NOTICE Parts may not be exactly as shown.

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TYPICAL SPRING LOADED CONTROL VALVE COMPONENTS

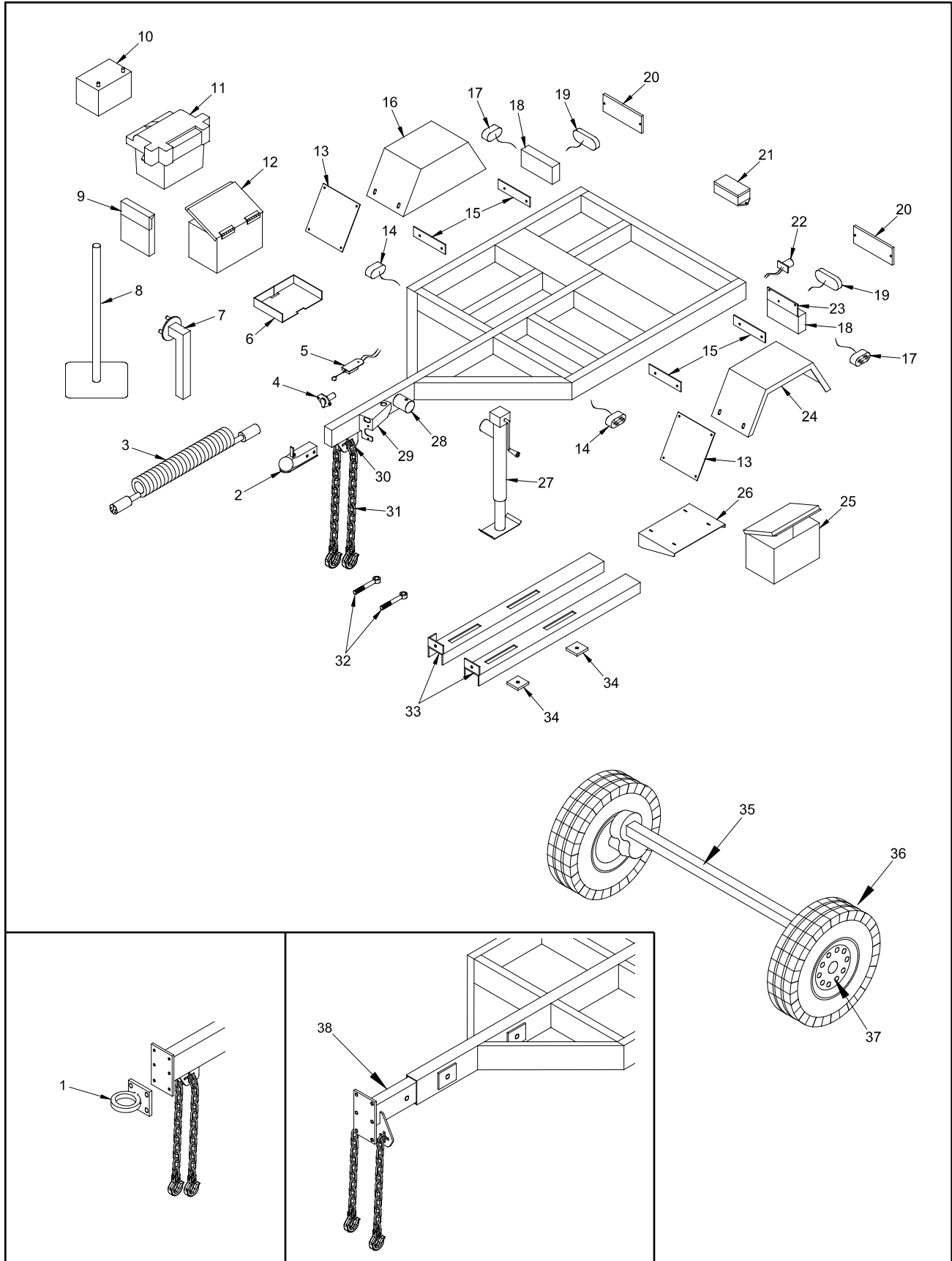
LOCATION	PART NUMBER	DESCRIPTION
1.	904-0003-29	Handle Only (Long)
2.	900-3905-95	Valve Bracket Only With Screws
3.	904-0003-30	Master Link Only Control Valve
4.	904-0003-31	Pin And Cotter Key For Control Valve
5.	904-0003-32	Bracket, Handle And Chain Link NOTE: INCLUDES #s 1, 2, 3, 4
6.	900-3937-34	Seal Kit For Control Valve
7.	904-0003-33	Seal Retainer For Control Valve NOTE: NOT INCLUDED IN SEAL KIT
8.	900-3901-12	Relief Valve Kit - Spring, Ball, Screw NOTE: SOLD ONLY AS A KIT
9.	904-0003-34	Valve Spool Stop For Spring Loaded Valve
10.	904-0003-35	Valve Spool Spring
11.	904-0003-36	Valve Spacer For Yoke Lift Valve
12.	900-A-2941	Spring Center Kit For Spring Loaded Valve
13.	904-0003-37	Detent Cap Only For Spring Loaded Valve (Short)

TYPICAL FEEDWHEEL CONTROL VALVE COMPONENTS

LOCATION	PART NUMBER	DESCRIPTION
1.	900-3905-95H	Handle Only (Short)
2.	900-3905-95	Valve Bracket Only With Screws
3.	904-0003-30	Master Link Only Control Valve
4.	904-0003-31	Pin And Cotter Key For Control Valve
5.	904-0003-32	Bracket, Handle And Chain Link NOTE: INCLUDES #s 1, 2, 3, 4
6.	900-3937-34	Seal Kit For Control Valve
7.	904-0003-33	Seal Retainer For Control Valve NOTE: NOT INCLUDED IN SEAL KIT
8.	900-3901-12	Relief Valve Kit - Spring, Ball, Screw NOTE: SOLD ONLY AS A KIT
9.	900-3900-71	Detent Kit For Feedwheel Control Valve NOTE: SOLD ONLY AS A KIT
10.	900-390071C	Detent Cap Only With Screws (Long)
11.	900-3900-71E	Detent Kit With Cap And Screws NOTE: INCLUDES #s 9 & 10
12.	900-3905-59	Handle, Pin, and Link NOTE: INCLUDES #s 1, 3, & 4

CONTROL VALVES

LOCATION	PIPE FITTING	SAE O-RING	DESCRIPTION
1.	N/A	900-3927-73	Yoke Lift Control Valve for Dual Control Yoke Lift
2.	900-3901-24	900-3920-02	Yoke Lift Control Valve Without Winch Option
3.	900-3908-62	900-3920-09	Yoke Lift Control Valve With Winch Option
4.	900-3901-42	900-3920-01	Winch, Hyd. Swivel Discharge, and Articulating Tongue
5.	900-3909-89	900-3920-06A	Feedwheel Control Valve With Relief
6.	900-3914-47	900-3920-05A	Feedwheel Control Valve With Out Relief



NOTICE Parts may not be exactly as shown.

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MODELS 65XP(XL)/95**FRAME & ACCESSORY COMPONENTS**

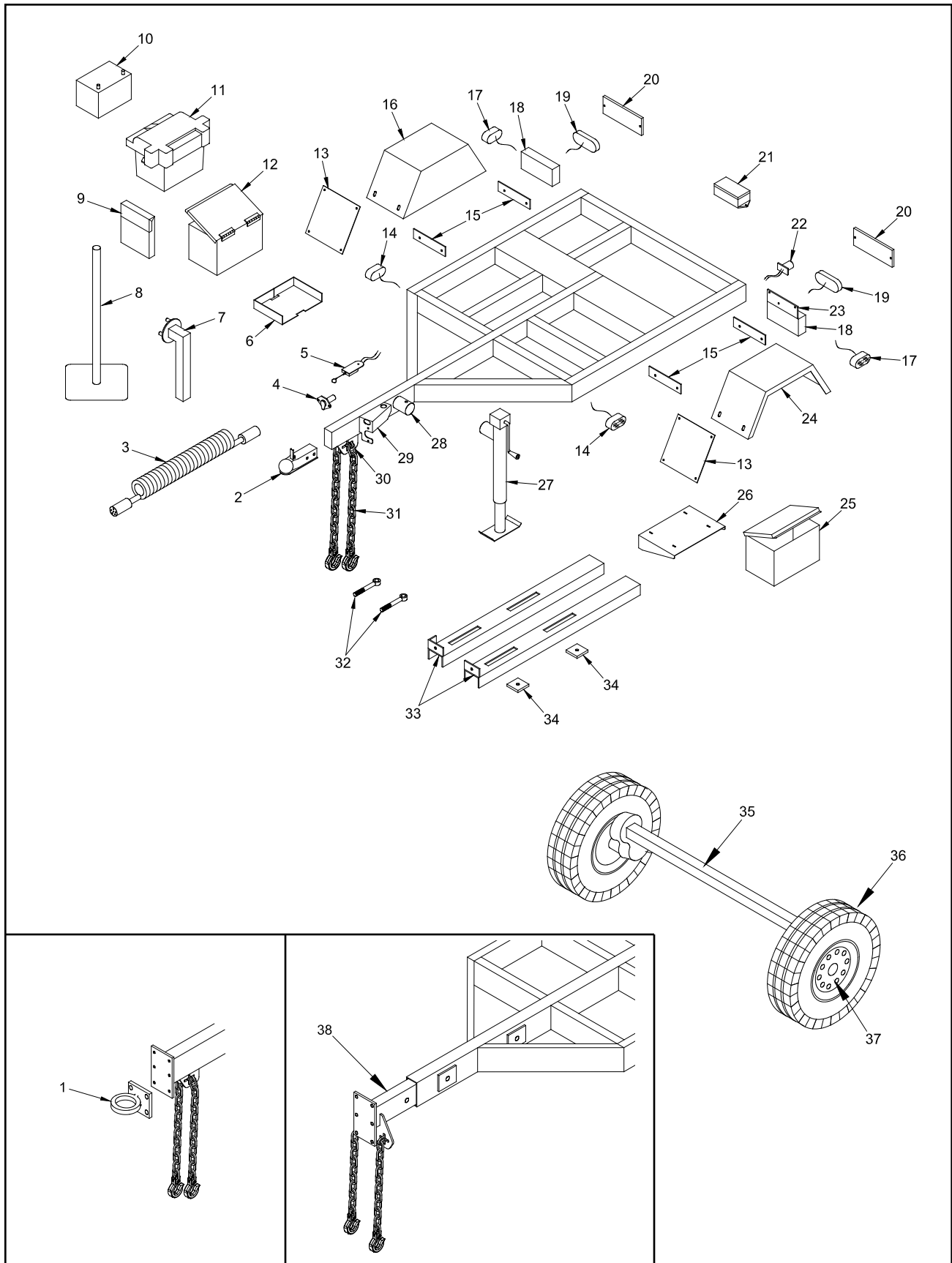
LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
1 a.	900-5900-13	900-5900-13	2 1/2" Heavy Duty Pintle Ring Hitch
b.	900-5905-73	900-5905-73	3" Heavy Duty Pintle Ring Hitch
c.	980-0505-33	980-0505-33	2 5/16" Ball Coupler Assembly (Not Shown)
d.	980-0501-47	980-0501-47	2" Ball Coupler Assembly (Not Shown)
e.	*-*	*-*	Other Hitch Options Available (Not Shown)
2 a.	900-5904-67	N/A	2" Ball Bolt-On Hitch Single Position (Bolts directly on tongue)
b.	900-5901-45	N/A	2" Ball Coupler (Croft - Optional) (Not Shown)
c.	900-5901-46	N/A	2 1/2" Pintle Ring (Croft - Optional) (Not Shown)
3 a.	900-2916-63	900-2916-63	Coil Cable Assembly With 6 Prong Plugs - 15'
b.	900-2904-12	900-2904-12	6-Prong Trailer Plug Male Plug Only
4.	900-2904-13	900-2904-13	6-Prong Trailer Plug Female Plug Only
5.	900-5900-09	900-5900-09	Electrical Breakaway Switch
6.	626-0001-70	980-200205	Battery Box Tray
7.	980-0510-51	980-0510-51	Optional Spare Tire Mount
8 a.	980-200202	980-200202	Optional Cone Holder (Replaces 980-0508-30)
b.	980-200215	980-200215	Optional Bolt-On Cone Holder (Not Shown)
c.	980-200107	980-200107	Optional Hoop Style Cone Holder (Not Shown)
d.	900-7900-86	900-7900-86	Cap For Cone Holder (Not Shown)
9.	900-9902-72	900-9902-07	Manual Holder
10 a.	900-6900-01	900-6900-01	460 CCA Battery
b.	900-6900-02	900-6900-02	660 CCA Battery
c.	900-6911-62	900-6911-62	1010 CCA Battery
11 a.	900-7900-01	900-7900-01	Plastic Battery Liner Box for 460 CCA Battery
b.	900-7900-08	900-7900-08	Plastic Battery Liner Box for 660/1010 CCA Battery
12 a.	N/A	980-0509-89	Steel Battery Box For 460 CCA Battery And Manual Holder
b.	N/A	980-0509-37	Steel Battery Box For 660/1010 CCA Battery And Manual Holder
c.	N/A	900-7900-78B	Aluminum Battery Box For 460 CCA Battery And Manual Holder
d.	N/A	900-7900-78B	Aluminum Battery Box For 66/1010 CCA Battery And Manual Holder
13.	N/A	980-0128-91	Optional Stone Guard
14.	900-2915-97	900-2915-97	LED Amber Marker Light
15.	626-300273	980-0128-14	Aluminum Fender Mount
16 a.	626-200044	980-0509-24	Right Hand Steel Weld-On Fender - 12"
b.	N/A	980-0506-81	Right Hand H.D. Steel Weld-On Fender - 12"
c.	626-200046	N/A	Right Hand H.D. Aluminum Fender For 20.5" x 8" x 10" Tire
d.	986-0502-11	N/A	Right Hand H.D. Aluminum Fender For 185/75R-14" Tire
e.	N/A	900-5904-43	Right Hand Aluminum Fender
f.	N/A	981-2001-08	Right Hand H.D. Aluminum Fender
g.	N/A	980-0506-81	Right Hand H.D. Steel Weld-On Fender
h.	N/A	980-0506-82	Right Hand H.D. Steel Bolt-On Fender
i.	N/A	980-0509-24	Right Hand Steel Weld-On Fender - 12"

**** Order Brake Hub And Drum Assembly According To Axle Type.
(Grease Type, Oil Type, Never Lube Type).**

***-* Engine Rails And Adjusters Will Vary Depending On Engine And Component Options.
Order By Serial Number Of Chipper Or Physical Description.**

NOTICE Other Fenders And Fender Stone Shields Are Optional.

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NOTICE Parts may not be exactly as shown.

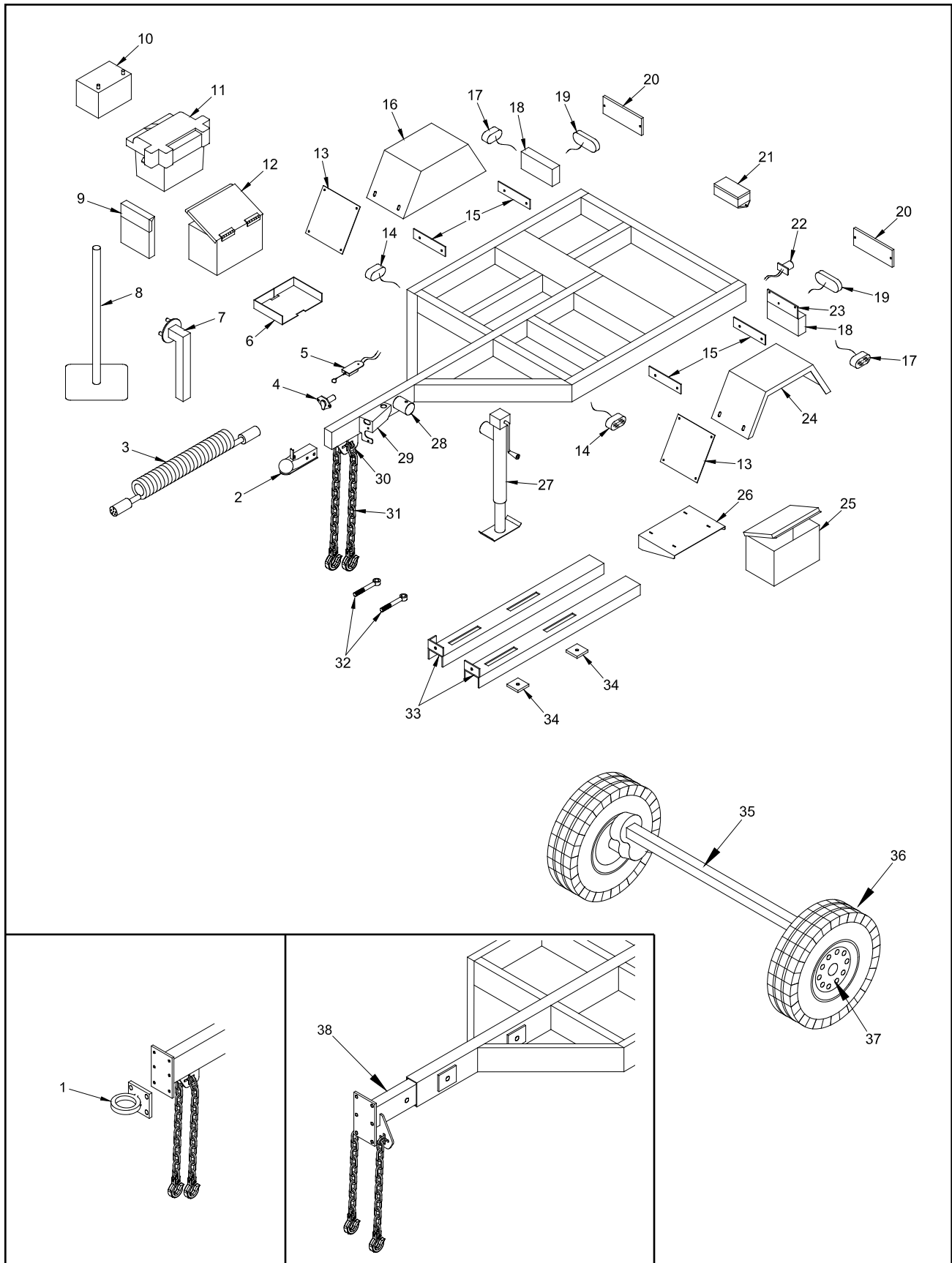
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LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
17.	900-2915-98	900-2915-98	LED Red Marker Light
18 a.	626-200032	See Pages 88-89	Tail Light Mount - Curb Side
b.	626-200031	See Pages 88-89	Tail Light Mount - Road Side
19.	900-2910-43	See Pages 88-89	LED Tail Light
20.	901-300007	See Pages 88-89	Heavy Duty Tail Light Cover
21.	900-2902-41	900-2902-41	Junction Box for Wiring
22.	900-2900-07	900-2900-07	License Plate Light
23.	980-0126-29	See Pages 88-89	License Plate & Light Mount
24 a.	626-200045	980-0509-23	Left Hand Steel Weld-On Fender
b.	N/A	980-0506-83	Left Hand H.D. Steel Weld-On Fender
c.	626-200047	N/A	Left Hand H.D. Aluminum Fender For 20.5" x 8" x 10" Tire
d.	986-0502-11	N/A	Left Hand H.D. Aluminum Fender For 185/75R-14" Tire
e.	N/A	900-5904-43	Left Hand Aluminum Fender
f.	N/A	981-2001-08	Left Hand H.D. Aluminum Fender
g.	N/A	980-0506-83	Left Hand H.D. Steel Weld-On Fender
h.	N/A	955-0506-84	Left Hand H.D. Steel Bolt-On Fender
i.	N/A	980-0509-22	Left Hand Steel Weld-On Fender - 12"
25 a.	N/A	900-7900-78	Aluminum Tool Box (Optional)
b.	N/A	980-0508-37	Steel Tool Box (Optional)
26.	N/A	980-200204	Tool / Battery Box Tray
27 a.	900-5906-10	900-5906-10	2,000 Lbs. Side Crank Jack - Zinc (Replaces 900-5903-79)
b.	900-5908-48	900-5908-48	1,000 Lbs. Poly Wheel Jack - Square Mount (Replaces 900-5908-16)
c.	900-5902-42	900-5902-42	1,000 Lbs. Steel Castor Wheel Jack - Round Mount
d.	980-0505-34	980-0505-34	1,000 Lbs. Rubber Castor Wheel Jack - Round Mount
e.	N/A	900-5908-44	5,000 Lbs. Side Crank Jack-Zinc-Square Mnt (Replaces 900-5903-86)
f.	N/A	900-5906-11	5,000 Lbs. Top Crank Jack-Zinc-Square Mnt (Replaces 900-5905-70)
g.	N/A	980-1002-11	5,000 Lbs. Jack With HD Castor Wheel - Zinc - Square Mount
h.	N/A	900-5908-78	8,000 Lbs. Drop Leg Jack - Zinc (Replaces 900-5903-78)
i.	N/A	980-1002-12	8,000 Lbs. Jack With HD Castor Wheel - Zinc
28 a.	910-1001-29	910-1001-29	Pivot Mount For 2,000 Lbs. Jack - Round Mount
b.	900-5905-71	900-5905-71	Pivot Mount For 1,000 Lbs. Castor Wheel Jack - Square Mount
c.	910-1001-29	910-1001-29	Pivot Mount For 1,000 Lbs. Castor Wheel Jack - Round Mount
d.	N/A	900-5905-71	Pivot Mount For 5,000 Lbs. Jack - Square Mount
e.	N/A	980-0127-45	Mount For 8,000 Lbs. Drop Leg Jack
f.	N/A	980-0127-44	Pin For 8,000 Lbs. Drop Leg Jack
29.	980-300106	980-300106	Trailer Plug Receptacle Mount
30.	922-0003-87	980-0121-31	Safety Chain Holder
31 a.	900-4912-36	900-4912-70	Safety Chain With Hooks and Spring Latches for Standard Tongue
b.	N/A	900-4908-01	Safety Chain With Hooks and Spring Latches for Telescopic Tongue
c.	900-4913-11	900-4913-12	Hook For Safety Chain
32 a.	900-4902-73	900-4902-73	Engine Adjuster Rod End - 1/2"-13NC x 5 1/2"
b.	N/A	900-4902-29	Engine Adjuster Rod End - 1/2"-13NC x 6"
c.	N/A	900-4902-28	Engine Adjuster Rod End - 1/2"-13NC x 8 1/2"
d.	N/A	900-4905-11	Engine Adjuster Rod End - 5/8"-11NC x 6"

**** Order Brake Hub And Drum Assembly According To Axle Type.
(Grease Type, Oil Type, Never Lube Type).**

***-* Engine Rails And Adjusters Will Vary Depending On Engine And Component Options.
Order By Serial Number Of Chipper Or Physical Description.**

[NOTICE] Other Fenders And Fender Stone Shields Are Optional.



NOTICE Parts may not be exactly as shown.

Bandit

MODELS 65XP(XL)/95**FRAME & ACCESSORY COMPONENTS**

LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
33 a.	*_*	*_*	Engine Rails / Engine Slide Mount
b.	626-100050	N/A	Engine Oil Drain Hose Kit- Honda, Briggs & Stratton (Not Shown)
c.	626-100048	N/A	Engine Oil Drain Hose Kit - Kohler (Not Shown)
34 a.	922-0003-38	922-0003-38	Engine Mount Pad For 1/2" Engine Hold Down
b.	N/A	980-0101-33	Engine Mount Pad For 5/8" Engine Hold Down
35 a.	900-5905-83	N/A	2,200 Lb. Torflex Axle Assembly (No Brake)
b.	900-5905-82	N/A	2,200 Lb. Torflex Axle Assembly (Electric Brake)
c.	900-5905-85	N/A	3,500 Lb. Torflex Axle Assembly (No Brake)
d.	900-5905-84	N/A	3,500 Lb. Torflex Axle Assembly (Electric Brake)
e.	900-5908-55	N/A	3,500 Lb. Torflex Axle Assembly (Electric Brake & Parking Brake)
f.	N/A	900-5902-54	7,000 Lb. Torflex Axle Assembly (No Brake)
g.	N/A	900-5905-60	7,000 Lb. Torflex Axle Assembly (Electric Brake)
h.	N/A	900-5905-61	7,000 Lb. Torflex Axle Assembly (Hydraulic Brake)
36 a.	900-5905-90	N/A	20.5" x 8" x 10" Tire And White, 5-Bolt Rim
b.	900-5905-88	N/A	20.5" x 8" x 10" Tire Only
c.	900-5905-89	N/A	10" White, 5-Bolt Rim Only
d.	900-5901-69	N/A	185/75R-14" Tire And Black, 5-Bolt Rim
e.	900-5903-08	N/A	185/75R-14" Tire Only
f.	900-5901-60	N/A	14" Black, 5-Bolt Rim Only
g.	N/A	900-5904-20	245/75R-16" Tire and White Spoke, 8-Bolt Rim
h.	N/A	900-5904-40	245/75R-16" Tire and Black, 8-Bolt Rim
i.	N/A	900-5904-18	245/75R-16" Tire Only
j.	N/A	900-5904-22	16" x 6" White Spoke, 8-Bolt Rim Only
k.	N/A	900-5904-19	16" x 6" Black, 8-Bolt Rim Only
37.	**	**	Brake Hub and Drum Assembly
38 a.	N/A	980-0508-43	Telescopic Tongue Ass'y - 6" Frame (Start 3/09) - 10" Increment
b.	N/A	986-200026	Telescopic Tongue Ass'y - 6" Frame (3/03 - 3/09) - 10" Increment
c.	N/A	995-0500-40	Telescopic Tongue Ass'y - 4" Frame (Pre 3/03) - 10" Increment
39 a.	980-0508-25	980-0508-25	Optional Wheel Chock Holders Aluminum Bolt-On (Not Shown)
b.	980-0508-26	980-0508-26	Optional Wheel Chock Holders Metal Weld-On (Not Shown)
40.	900-5902-32	900-5902-32	Optional Rubber Wheel Chock (Not Shown)
41.	900-5904-52	900-5904-52	Optional Safety Marker For Fenders (Not Shown)
42.	900-7900-48	900-7900-48	Optional Mud Flap (Not Shown)
43 a.	900-9904-94	900-9904-94	Optional Vice (Not Shown)
b.	980-300113	980-300113	Optional Weld-On Vice Mount (Not Shown)

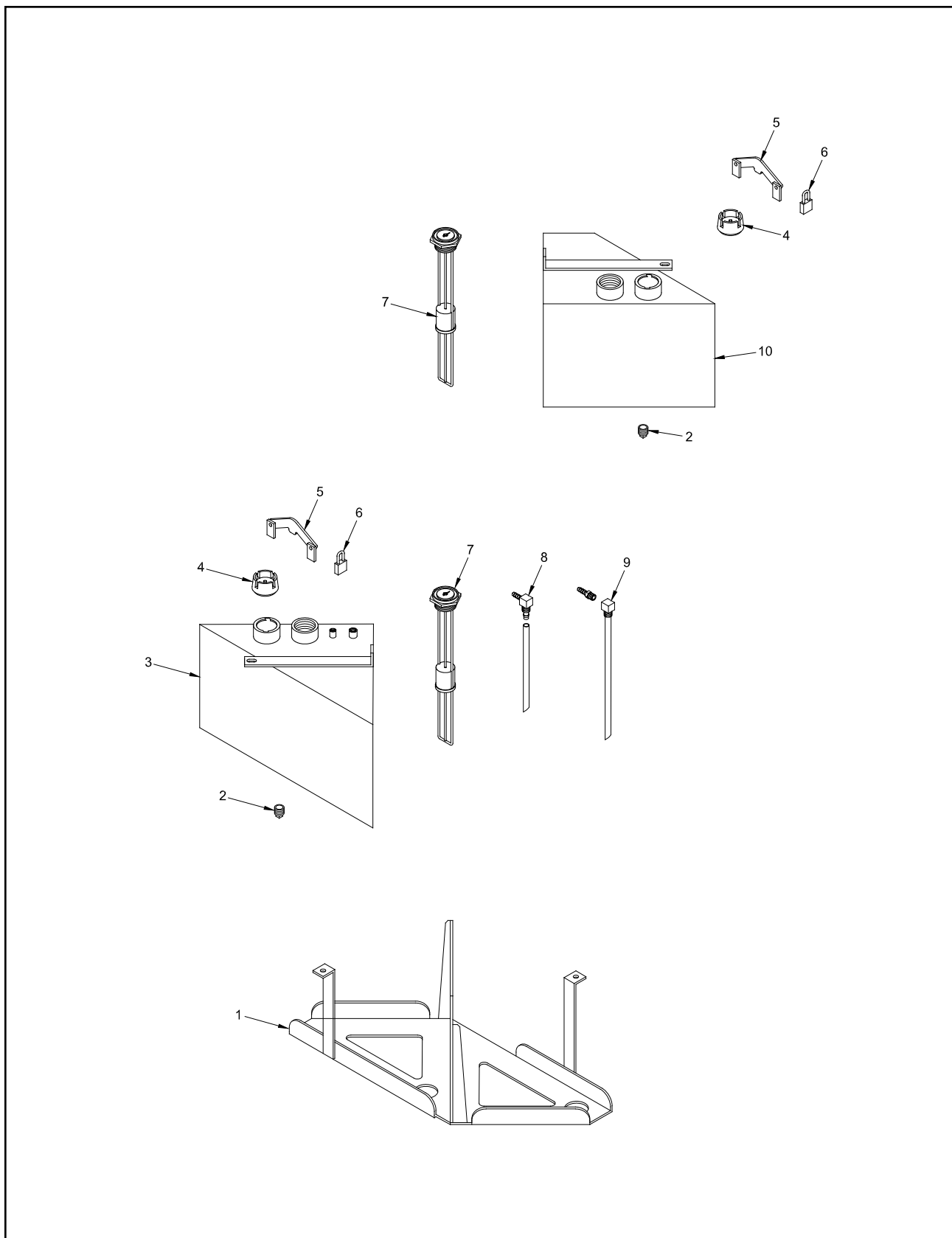
**** Order Brake Hub And Drum Assembly According To Axle Type.
(Grease Type, Oil Type, Never Lube Type).**

***_* Engine Rails And Adjusters Will Vary Depending On Engine And Component Options.
Order By Serial Number Of Chipper Or Physical Description.**

[NOTICE] Other Fenders And Fender Stone Shields Are Optional.

Bandit

MODEL 65 TANKS & COMPONENTS



NOTICE Parts may not be exactly as shown.

Bandit

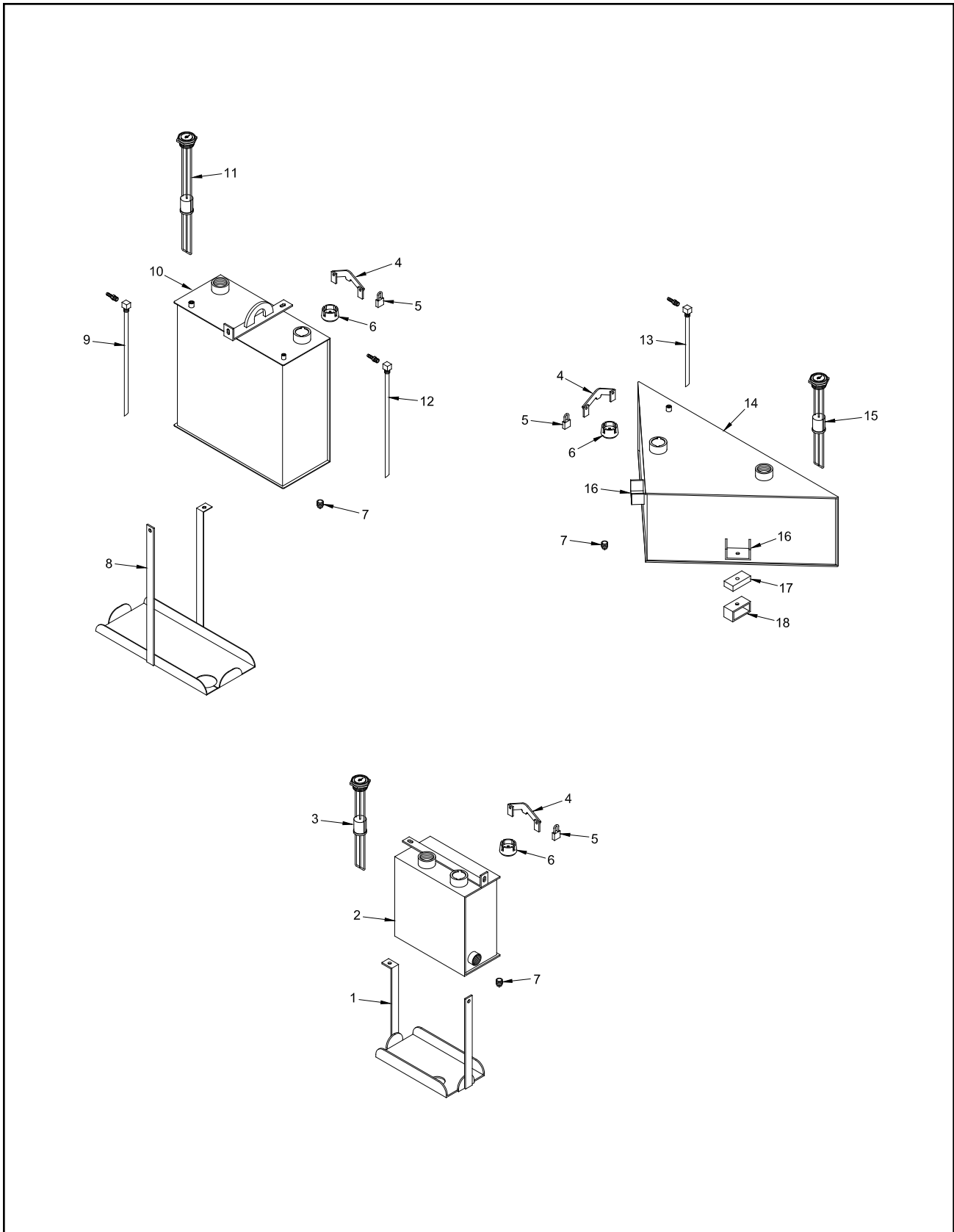
MODEL 65 TANKS & COMPONENTS

LOCATION	MODEL 65 PART NUMBER	DESCRIPTION
1 a.	626-200024	Tank Mount Tray - 8 Gallon Fuel Tank & 7 Gallon Hydraulic Tank
b.	626-200049	Tank Mount Tray - 12 Gallon Fuel Tank & 7 Gallon Hydraulic Tank
c.	900-0104-95	Rubber Tank Pad (Not Shown)
2.	900-3922-60	Magnetic Drain Plug
3 a.	626-200013	8 Gallon Fuel Tank Assembly
b.	626-200048	12 Gallon Fuel Tank Assembly
4 a.	900-3901-51	Fill Cap With Dipstick (Steel Tank)
b.	900-3917-71	Fill Cap Only No Dipstick (Steel Tank)
c.	900-3941-31	Fuel (Diesel) Locking Fill Cap - Green
d.	900-3941-30	Fuel (Gasoline) Locking Fill Cap - Black
e.	900-3941-30	Hydraulic Locking Fill Cap - Black
f.	900-3935-06	Keeper For Fuel & Hydraulic Locking Fill Cap (Not Shown)
5.	980-0506-85	Fill Cap Lock Assembly For Steel Tank
6 a.	900-4912-40	Padlock With Short Shackle For Tank With Locking Cap
b.	P812	Key For Padlock (Not Shown)
7 a.	900-2903-93	Optional Rochester Sight Gauge For 8 Gallon Fuel Tank & 7 Gallon Hydraulic Tank
b.	900-2903-94	Optional Rochester Sight Gauge For 12 Gallon Fuel Tank
c.	900-2903-55	Face For Sight Gauge Only
8 a.	900-3908-77	Return 1/4" NPTF Elbow 1/4" Hose Barb x 1/4" Hose Barb
b.	900-3936-69	Return 1/4" NPTF Elbow 3/16" Hose Barb x 1/4" Hose Barb
c.	900-3909-03	1/4" ID Drop Pipe Only
9 a.	900-3909-00	Suction Drop Pipe Ass'y Without Hose Barb (3/8" NPTF Male x 1/4" NPTF Female)
b.	900-3925-48	1/4" NPTF To 3/8" Hose Barb
c.	900-3909-01	1/4" NPTF To 5/16" Hose Barb
d.	900-3909-02	1/4" NPTF To 1/4" Hose Barb
e.	900-3943-22	3/16" NPTF To 3/16" Hose Barb
f.	900-3943-21	1/4" NPTF To 3/16" NPTF Bushing
10.	626-200018	7 Gallon Hydraulic Tank Assembly

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

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

MODEL 95 TANKS & COMPONENTS



NOTICE Parts may not be exactly as shown.

Bandit

MODEL 95 TANKS & COMPONENTS

LOCATION	MODEL 95 PART NUMBER	DESCRIPTION
1 a.	986-0502-00	7 Gallon Rectangle Hydraulic Tank Mount Tray
b.	900-0104-95	Rubber Tank Pad (Not Shown)
2.	986-0502-01	7 Gallon Rectangle Hydraulic Tank Assembly
3 a.	900-2903-93	Optional Rochester Sight Gauge For 7 Gallon Rectangle Hydraulic Tank
b.	900-2903-55	Face For Sight Gauge Only
4 a.	980-0506-85	Fill Cap Lock Assembly For Steel Tank
b.	980-0508-50	Fill Cap Lock Assembly For Plastic Tank (Not Shown)
5 a.	900-4912-40	Padlock With Short Shackle For Tank With Locking Cap
b.	P812	Key For Padlock (Not Shown)
6 a.	900-3901-51	Fill Cap With Dipstick (Steel Tank)
b.	900-3917-71	Fill Cap Only No Dipstick (Steel Tank)
c.	900-3907-67	Fill Cap For Plastic Tank
d.	900-3941-31	Fuel (Diesel) Locking Fill Cap - Green
e.	900-3941-30	Fuel (Gasoline) Locking Fill Cap - Black
f.	900-3941-30	Hydraulic Locking Fill Cap - Black
g.	900-3935-06	Keeper For Fuel & Hydraulic Locking Fill Cap (Not Shown)
7.	900-3922-60	Magnetic Drain Plug
8 a.	980-0508-41	24 1/2 Gallon Rectangle Fuel Tank Mount Tray
b.	980-0508-04	24 1/2 Gallon Rectangle Plastic Fuel Tank Mount Tray
c.	900-0104-95	Rubber Tank Pad (Not Shown)
9 a.	900-3926-84	Suction Drop Pipe Ass'y Without Hose Barb (1/2" NPTF Male x 3/8" NPTF Female)
b.	900-3926-83	3/8" NPTF To 1/2" Hose Barb
c.	900-3926-82	3/8" NPTF To 3/8" Hose Barb
d.	900-3931-53	3/8" NPTF To 5/16" Hose Barb
10 a.	980-0509-58	24 1/2 Gallon Rectangle Fuel Tank Assembly
b.	900-3908-92	24 1/2 Gallon Rectangle Plastic Fuel Tank
11 a.	900-2903-95	Optional Rochester Sight Gauge For 24 1/2 Gallon Rectangle Fuel Tank
b.	900-2903-55	Face For Sight Gauge Only
12 a.	900-3909-00	Return Drop Pipe Ass'y Without Hose Barb (3/8" NPTF Male x 1/4" NPTF Female)
b.	900-3925-48	1/4" NPTF To 3/8" Hose Barb
c.	900-3909-01	1/4" NPTF To 5/16" Hose Barb
d.	900-3909-02	1/4" NPTF To 1/4" Hose Barb
e.	900-3943-22	3/16" NPTF To 3/16" Hose Barb
f.	900-3943-21	1/4" NPTF To 3/16" NPTF Bushing
13 a.	900-3909-00	Suction Drop Pipe Ass'y Without Hose Barb (3/8" NPTF Male x 1/4" NPTF Female)
b.	900-3925-48	1/4" NPTF To 3/8" Hose Barb
c.	900-3909-01	1/4" NPTF To 5/16" Hose Barb
d.	900-3909-02	1/4" NPTF To 1/4" Hose Barb
e.	900-3943-22	3/16" NPTF To 3/16" Hose Barb
f.	900-3943-21	1/4" NPTF To 3/16" NPTF Bushing
14.	986-0501-64	24 1/2 Gallon Triangle Fuel Tank Assembly For Wisconsin Engines
15 a.	900-2903-93	Optional Rochester Sight Gauge For 24 1/2 Gallon Triangle Fuel Tank - Wisc. Eng.
b.	900-2903-55	Face For Sight Gauge Only
16.	980-0123-07	Tank Mount - Welded To Tank
17.	900-7900-14	Rubber Mounting Pad
18.	980-0134-27	Tank Mount On Frame

NOTICE Components vary with fuel type.

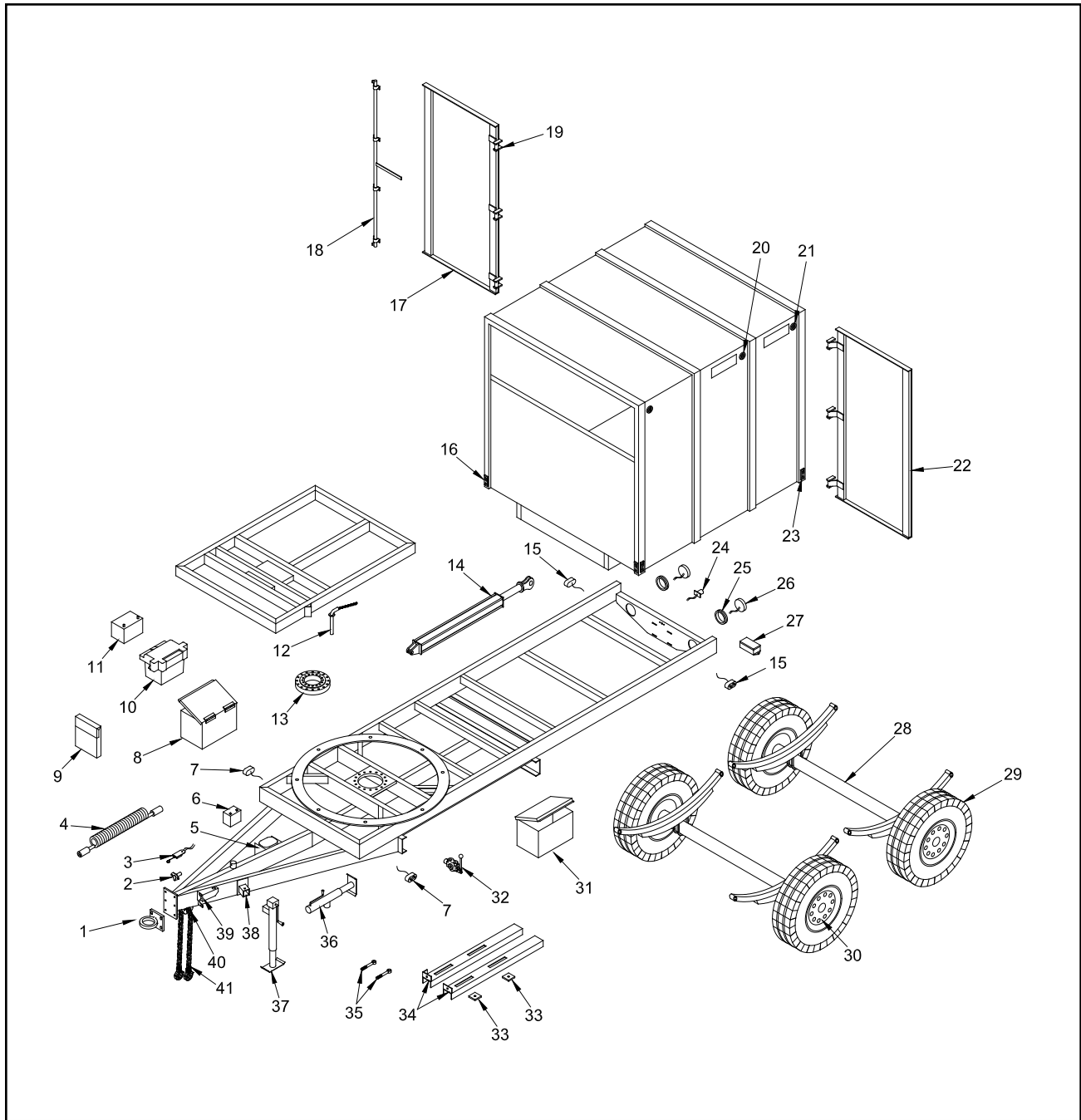
Specify gas or diesel when ordering fuel tank components.

NOTICE Tank assemblies vary with options.

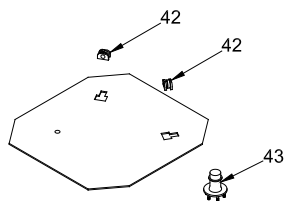
Specify all options when ordering.

Bandit

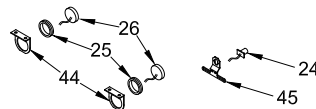
CHIP BOX



PRIOR TURNTABLE (PRE 1/07)



PRIOR LIGHT MOUNTS (PRE 1/07)



NOTICE Parts may not be exactly as shown.

Bandit

CHIP BOX

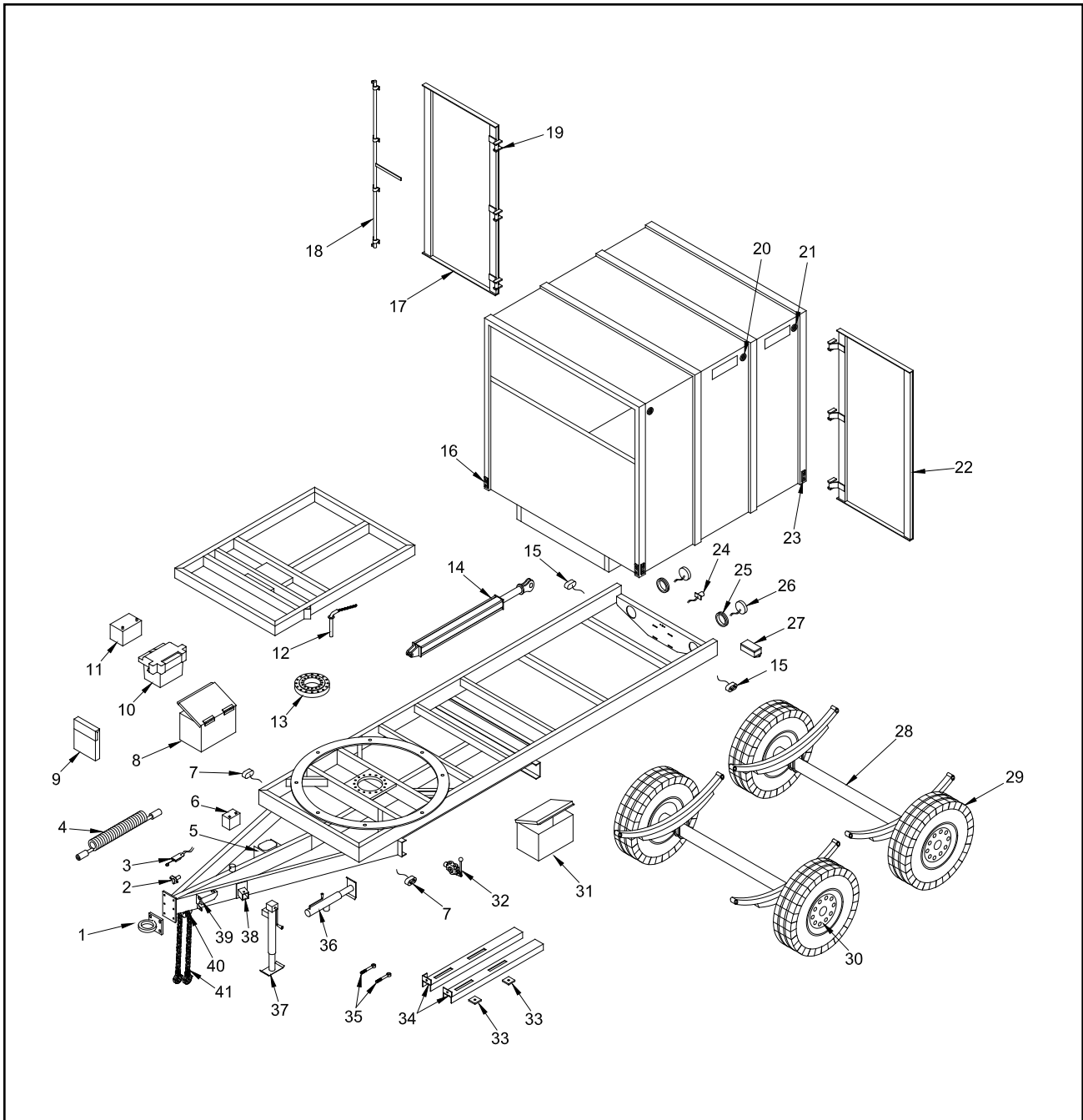
LOCATION	PART NUMBER	DESCRIPTION
1 a.	900-5900-13	2 1/2" Heavy Duty Pintle Ring Hitch
b.	900-5905-73	3" Heavy Duty Pintle Ring Hitch
2.	900-2904-13	6-Prong Trailer Plug Female Plug Only
3.	900-5900-09	Electrical Breakaway Switch
4 a.	900-2916-63	Coil Cable Assembly With 6 Prong Plugs - 15'
b.	900-2904-12	6-Prong Trailer Plug Male Plug Only
5.	900-2904-02	Mount For Electrical Breakaway Switch Battery
6.	900-2904-01	Battery For Electrical Breakaway Switch
7.	900-2915-97	LED Amber Marker Light
8.	900-9902-07	Manual Holder
9 a.	980-0509-89	Steel Battery Box For 460 CCA Battery And Manual Holder
b.	900-7900-78B	Aluminum Battery Box For 460 CCA Battery And Manual Holder
c.	900-7900-78B	Aluminum Battery Box For 660/1010 CCA Battery And Manual Holder
d.	980-0509-37	Steel Battery Box For 660/1010 CCA Battery And Manual Holder
10 a.	900-7900-01	Plastic Battery Liner Box for 460 CCA Battery
b.	900-7900-08	Plastic Battery Liner Box for 660/1010 CCA Battery
11 a.	900-6900-01	460 CCA Battery
b.	900-6900-02	660 CCA Battery
c.	900-6911-62	1010 CCA Battery
12.	955-1015-32	Lock Pin For Turntable
13.	900-1913-46	Turntable Bearing (Start 1/07)
14.	900-3906-77	Chip Box Lift Cylinder
15.	900-2915-98	LED Red Marker Light
16.	900-2900-06	Amber Rectangle Reflector
17 a.	910-200012	Curb Side Door Assembly (Start 1/07)
b.	910-0500-31	Curb Side Door Assembly (Pre 1/07)
c.	900-4914-22	Spring Latch - To Hold Door Open (Not Shown)
18 a.	900-4913-73	Door Latch Assembly (Start 1/07)
b.	910-0500-32	Door Latch Assembly (Pre 1/07) (Not Shown)
19 a.	900-4913-72	Door Hinge (Start 1/07)
b.	910-300023	Hinge On Door (Pre 1/07) (Not Shown)
c.	910-300022	Hinge On Chip Box (Pre 1/07) (Not Shown)
d.	910-300058	Pin For Hinge (Pre 1/07) (Not Shown)
20.	900-2916-35	Amber Round Reflector
21.	900-2916-36	Red Round Reflector
22 a.	910-200011	Road Side Door Assembly (Start 1/07)
b.	910-0500-30	Road Side Door Assembly (Pre 1/07)
c.	900-4914-22	Spring Latch - To Hold Door Open (Not Shown)
23.	900-2900-05	Red Rectangle Reflector
24.	900-2900-07	License Plate Light
25.	900-2908-75	Rubber Grommet For LED Taillight
26 a.	900-2908-76	LED Taillight
b.	900-2908-74	Adaptor Wire For LED Taillight (Not Shown)
27.	900-2902-41	Junction Box for Wiring

**** Order Brake Hub And Drum Assembly According To Axle Type.
(Grease Type, Oil Type, Never Lube Type).**

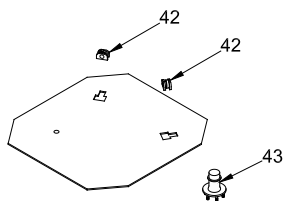
***.* Engine Rails And Adjusters Will Vary Depending On Engine And Component Options.
Order By Serial Number Of Chipper Or Physical Description.**

Bandit

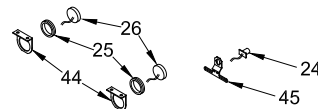
CHIP BOX



PRIOR TURNTABLE (PRE 1/07)



PRIOR LIGHT MOUNTS (PRE 1/07)



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Bandit

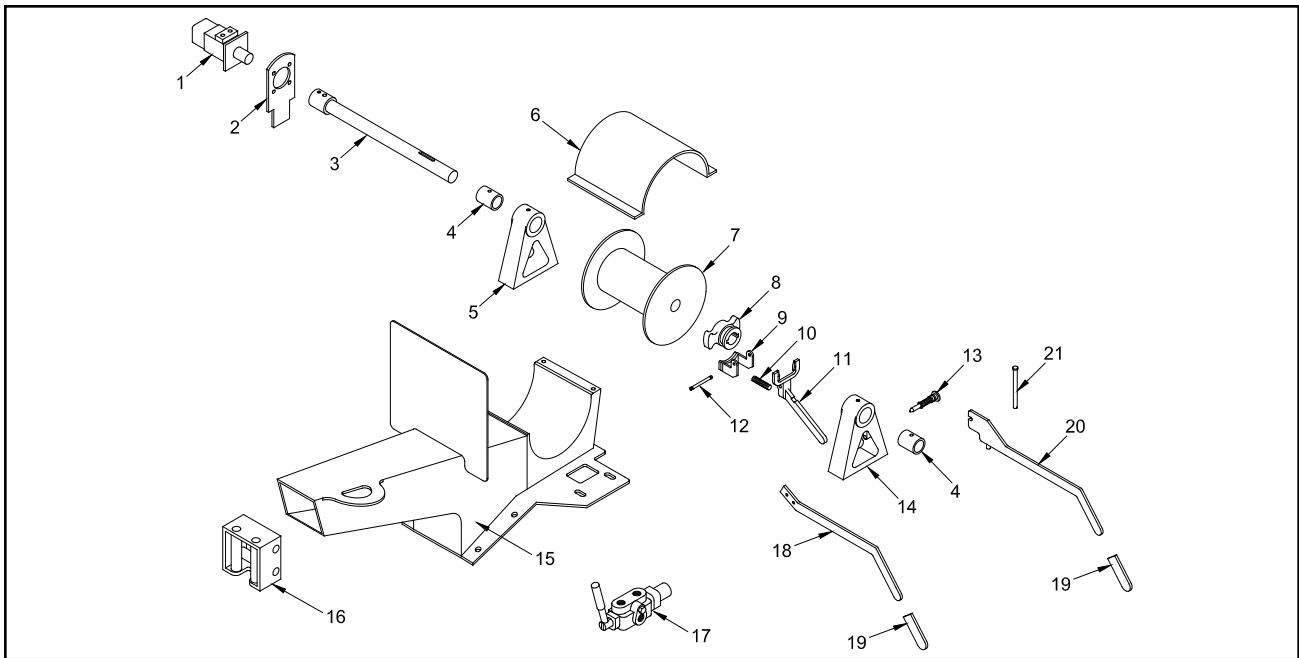
CHIP BOX

LOCATION	PART NUMBER	DESCRIPTION
28 a.	900-5905-36	7,000 Lb. Electric Brake Axle Assembly
b.	900-5904-54	7,000 Lb. Hydraulic Brake Axle Assembly
c.	900-5903-02	Hanger Kit
d.	900-5902-97	Attaching Parts Kit
29 a.	900-5904-20	245/75R-16" Tire and White Spoke, 8-Bolt Rim
b.	900-5904-40	245/75R-16" Tire and Black, 8-Bolt Rim
c.	900-5904-18	245/75R-16" Tire Only
d.	900-5904-22	16" x 6" White Spoke, 8-Bolt Rim Only
e.	900-5904-19	16" x 6" Black, 8-Bolt Rim Only
30.	**	Brake Hub and Drum Assembly
31 a.	900-7900-78	Aluminum Tool Box
b.	980-0508-37	Steel Tool Box
32 a.	900-3920-01	Chip Box Lift Control Valve - SAE O-Ring
b.	900-3901-42	Chip Box Lift Control Valve - Pipe Fitting
33 a.	922-0003-38	Engine Mount Pad For 1/2" Engine Hold Down
b.	980-0101-33	Engine Mount Pad For 5/8" Engine Hold Down
34.	*_*	Engine Rails
35 a.	900-4902-29	Engine Adjuster Rod End - 1/2"-13NC x 6"
b.	900-4902-28	Engine Adjuster Rod End - 1/2"-13NC x 8 1/2"
c.	900-4902-73	Engine Adjuster Rod End - 1/2"-13NC x 5 1/2"
36.	900-5906-10	2,000 Lbs. Yoke Lift Jack (Side Crank) - Zinc (Replaces 900-5903-79)
37.	900-5903-78	8,000 Lbs. Drop Leg Jack
38 a.	980-0127-45	Mount For 8,000 Lbs. Drop Leg Jack
b.	980-0127-44	Pin For 8,000 Lbs. Drop Leg Jack
39.	980-300106	Trailer Plug Receptacle Mount
40.	980-0121-31	Safety Chain Holder
41 a.	900-4912-71	Safety Chain With Hooks and Spring Latches for Standard Tongue
b.	900-4905-77	Hook For Safety Chain
42.	900-1903-01	Turntable Roller Bearing (Pre 1/07)
43.	900-5904-15	Turntable Spindle And Hub Assembly (Pre 1/07)
44.	900-2900-21	Tail Light Mount (Pre 1/07)
45.	900-9904-48	License Plate And Light Mount (Pre 1/07)

**** Order Brake Hub And Drum Assembly According To Axle Type.
(Grease Type, Oil Type, Never Lube Type).**

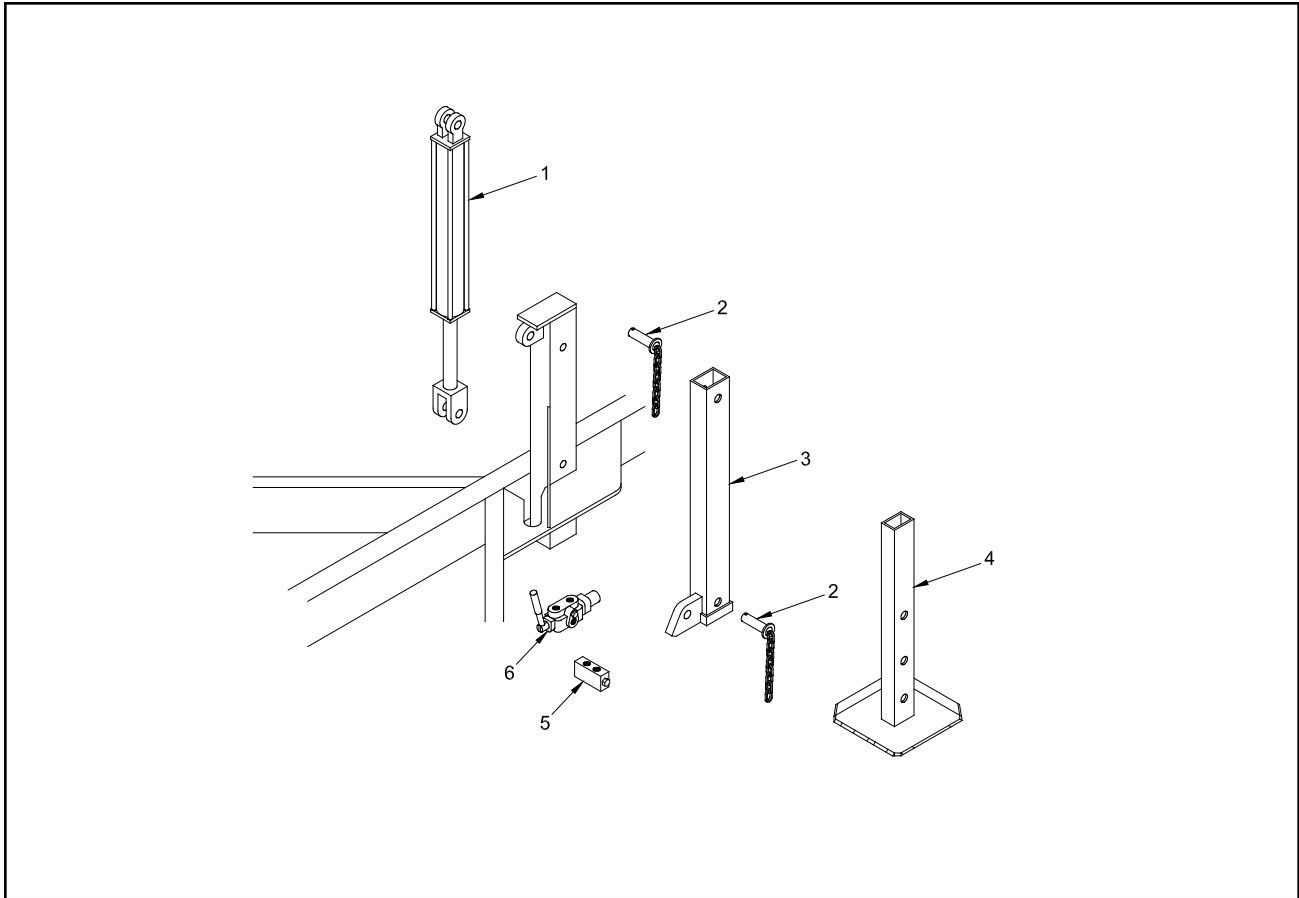
***_* Engine Rails And Adjusters Will Vary Depending On Engine And Component Options.
Order By Serial Number Of Chipper Or Physical Description.**

Bandit



LOCATION	PART NUMBER	DESCRIPTION
1	a. 900-3921-57	Winch Hydraulic Motor (SAE O-rings) "RS" - Square
	b. 900-3902-14	Winch Hydraulic Motor (Pipe Fittings) "RS" - Square
	c. 900-3924-39	Winch Hydraulic Motor (SAE O-rings) "RE" - Round
2	a. 981-1001-01	Winch Motor Torque Arm For "RS" Motor
	b. 955-1011-71	Winch Motor Torque Arm For "RE" Motor
3	a. 43626	Winch Shaft Only
	b. 900-3905-22	Winch Shaft With Keys
4.	40003	Winch Bushing For A Frame
5.	900-3905-21	Winch A Frame Arm (Also Includes # 4) (Models 90-250, 1090-1590)
6.	980-300260	Winch Drum Cover
7	a. 900-3905-19	Winch Drum (Includes Bushings)
	b. 40005	Bushing Only For Winch Drum (Not Shown)
8.	900-3905-17	Winch Clutch
9.	40473	Winch Brake Shoe Only
10.	40024	Winch Spring
11	a. 40469	Winch Shift Lever Only
	b. 900-3905-16	Winch Shift Lever With #'s 9 & 10
12	a. 40025	Winch Pin For Brake Assembly
	b. 41669	Winch Snap Ring For Winch Pin
13.	900-3905-14	Winch Release Lever Pin Assembly
14.	900-3905-18	Winch A Frame Arm (Includes #'s 4, 9 - 13) (Models 90-250, 1090-1590)
15.	980-200162	Winch Tunnel Assembly (Models 90-280, 1090-1890)
16	a. 980-0505-82	Winch Roller Assembly
	b. 914-1004-18	Winch Roller Only
	c. 900-4902-27	Winch Roller Bolt Only
17	a. 900-3920-01	Winch Valve (SAE O-rings)
	b. 900-3901-42	Winch Valve (Pipe Fittings)
18.	955-300376	Winch Shift Lever Extension (If Applicable)
19.	900-9904-59	Vinyl Cap For Handle Extension (If Applicable)
20.	955-300377	Lock Pin Handle Extension (If Applicable)
21.	900-4913-00	Pivot Pin For Winch Handle Extension (If Applicable)
22.	904-0002-60	Winch Kit (Includes #'s 1 - 17)

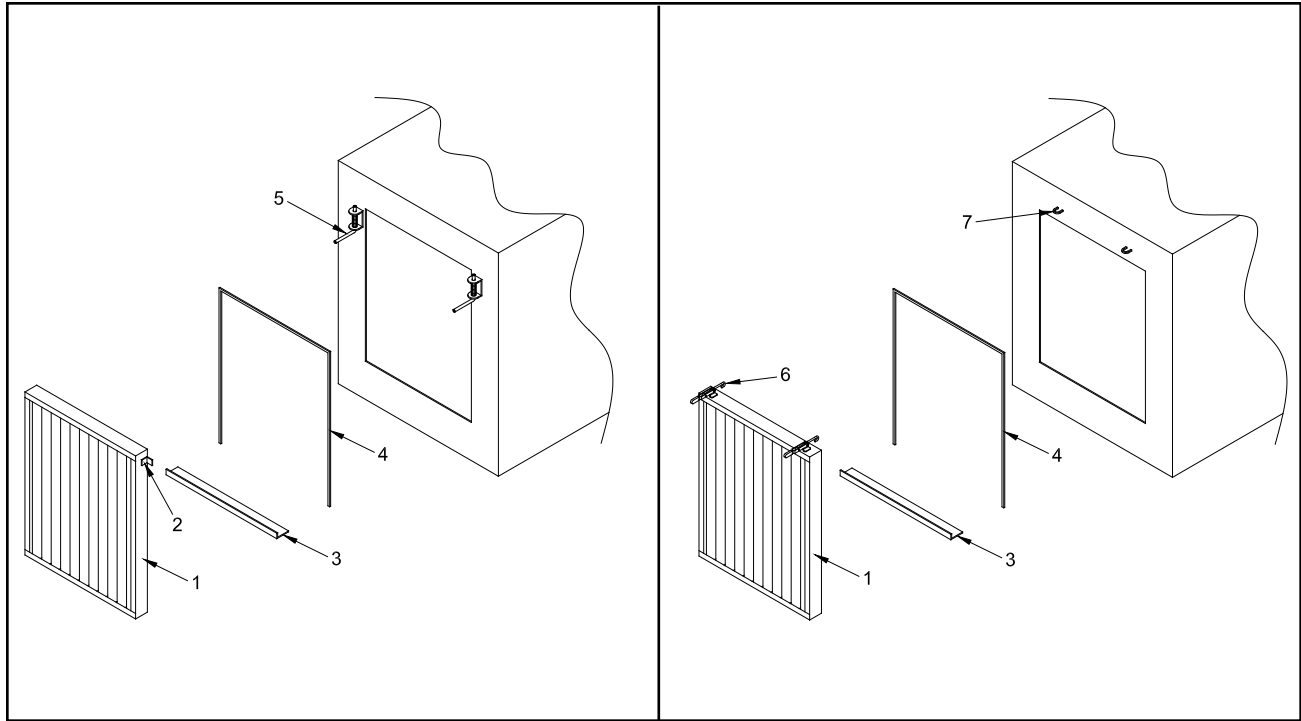
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LOCATION	PART NUMBER	DESCRIPTION
1 a.	900-3934-24	Tongue Jack Cylinder - Welded
1 b.	904-0007-14	Pin For Welded Cylinder (Not Shown)
2.	914-1000-38	Lock Pin
3.	980-0131-50	Inside Tube Assembly
4.	980-0509-53	Drop Leg Foot Pad Assembly
5.	900-3925-94	Check Valve
6 a.	900-3920-01	Tongue Jack Valve (SAE O-rings)
6 b.	900-3901-42	Tongue Jack Valve (Pipe Fittings)
7.	980-0509-00	Hydraulic Tongue Jack Kit (Includes #'s 1 - 6)

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Bandit

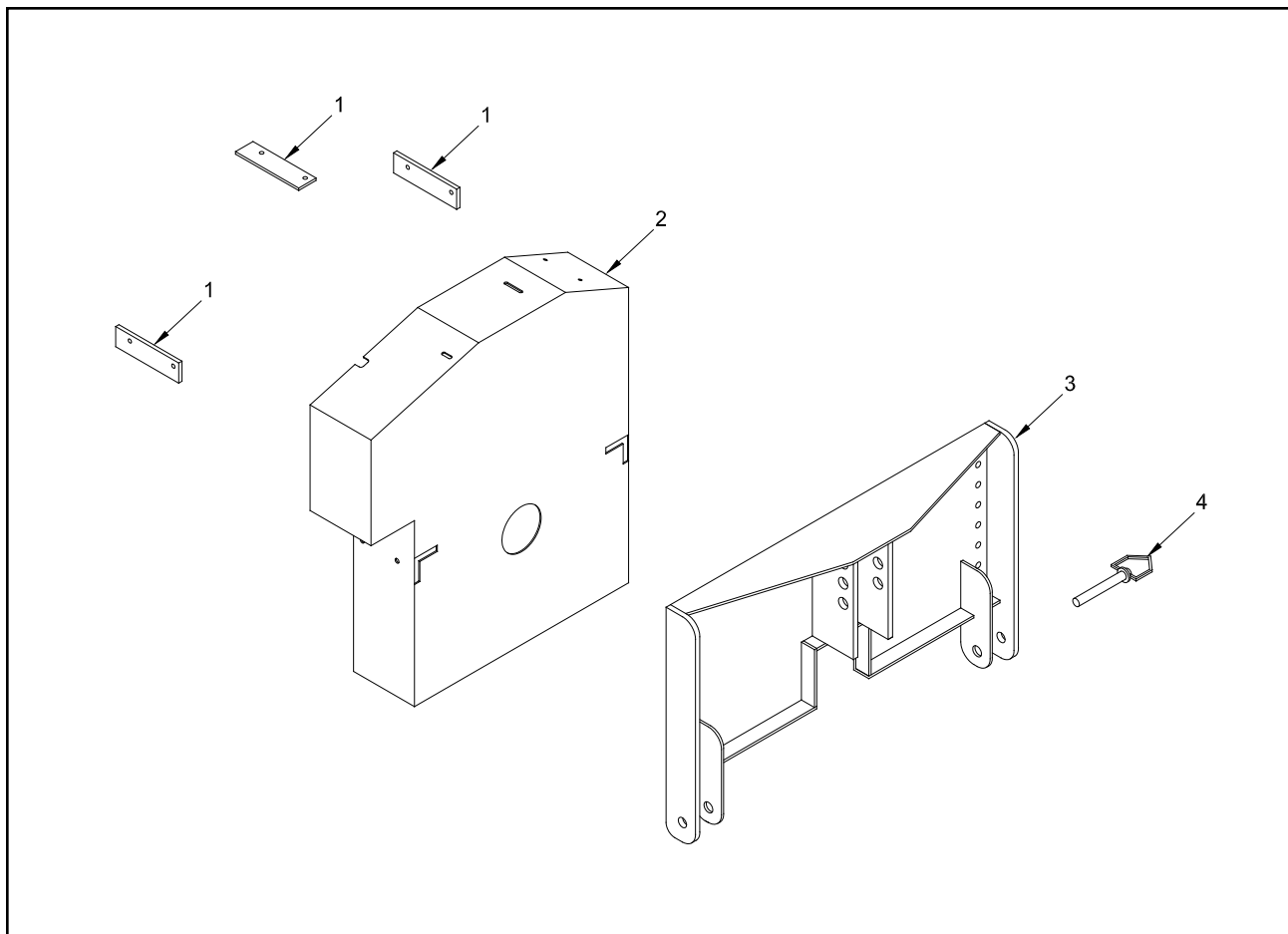


LOCATION	PART NUMBER	DESCRIPTION
1.	980-0508-17	Bandit H.D. Foldaway Radiator Screen Ass'y (specify latch type)
2.	980-0122-86	Spring Lock Tab Foldaway Radiator Screen
3.	*_*	Mount Tray For Foldaway Radiator Screen
4.	900-7900-57	Weather Strip
5 a.	900-4901-83	Spring Lock Plunger
b.	900-7900-93	Rubber Cap For Spring Lock - 1/2" Diameter
6.	900-4901-61	Hook Pull Clamp
7.	980-0128-77	Lock Tab For Hook

**** Will Vary Depending On Engine And Component Options. Order By Serial Number Of Chipper Or Physical Description.**

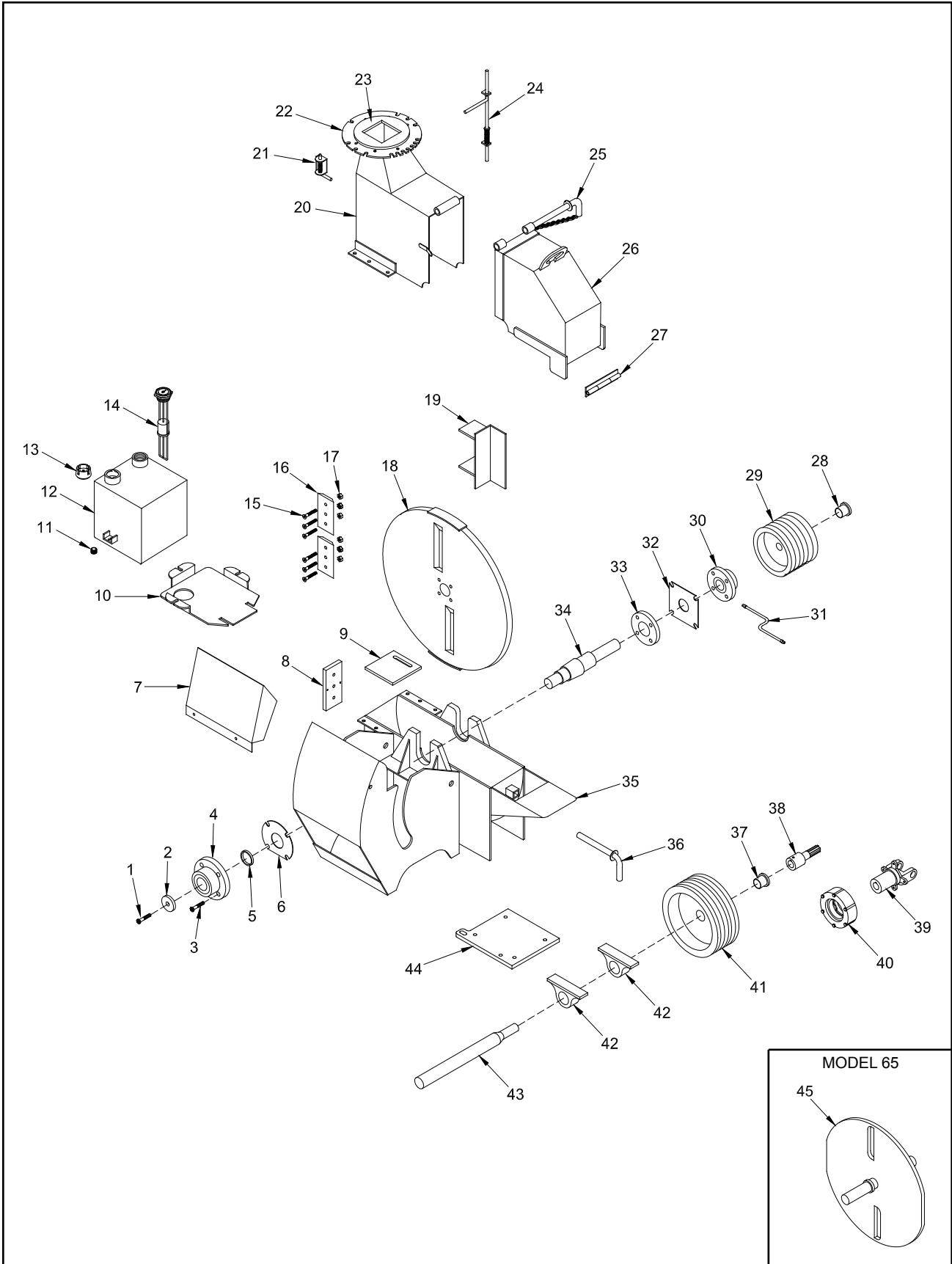
NOTICE Parts may not be exactly as shown.

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LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
1.	626-0001-98	986-1108-86	Beltshield Mount
2.	626-0500-33	986-0500-64	Beltshield Assembly
3.	626-200051	980-0501-21	3-Point Hitch
4.	900-4907-44	900-4902-35	3-Point Hitch Pin

NOTICE Parts may not be exactly as shown.



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Bandit

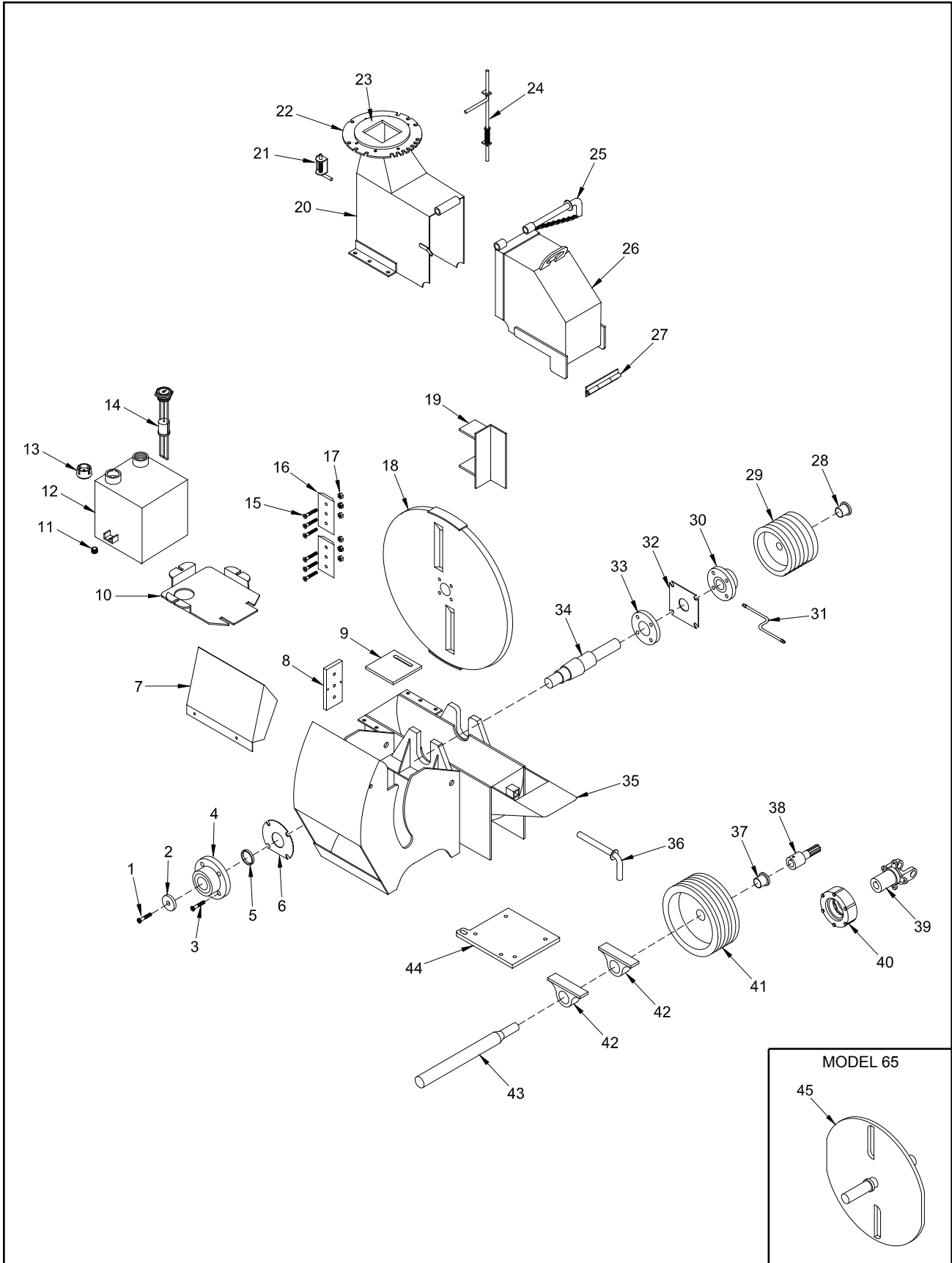
LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
1 a.	900-4903-30	900-4902-78	Bearing Retainer Bolt
b.	900-4901-38	900-4900-33	Lock Washer
2 a.	626-300082	980-0125-10	Bearing Retainer (Without Autofeed)
b.	626-0004-54	980-0132-41	Bearing Retainer (With Autofeed)
3 a.	900-4906-72	900-4903-32	Front Chipper Bearing Bolt
b.	900-4906-86	900-4906-87	Lock Washer (Not Shown)
4.	900-1904-13	900-1900-33	Front Chipper Bearing
5 a.	626-0001-93	980-0101-72	1/16" Disc Spacer
b.	626-0001-94	980-0101-73	1/8" Disc Spacer
c.	626-0001-95	980-0101-74	3/16" Disc Spacer
d.	626-0001-96	980-0101-75	1/4" Disc Spacer
e.	N/A	995-0001-04	5/16" Disc Spacer
f.	N/A	995-0001-05	3/8" Disc Spacer
6.	626-0000-66	980-0119-38	Front Chipper Bearing Backer Plate
7.	626-300079	995-0001-19	Feedwheel Guard
8.	See Page 97	See Page 97	Anvil
9.	981-1008-07	981-1008-07	Pump Mount
10.	626-300211	986-300001	Hydraulic Tank Tray
11.	900-3922-60	900-3922-60	Magnetic Drain Plug
12.	926-200000	986-200045	Hydraulic Tank - Overlap Style
13 a.	900-3901-51	900-3901-51	Fill Cap With Dipstick (Steel Tank)
b.	900-3917-71	900-3917-71	Fill Cap Only No Dipstick (Steel Tank)
c.	900-3941-30	900-3941-30	Hydraulic Locking Fill Cap - Black
d.	900-3935-06	900-3935-06	Keeper For Fuel & Hydraulic Locking Cap (Not Shown)
14 a.	900-2903-93	900-2903-93	Optional Rochester Sight Gauge
b.	900-2903-55	900-2903-55	Face For Sight Gauge Only
15.	See Page 95	See Page 95	Chipper Knife Bolt
16.	See Page 95	See Page 95	Chipper Knife
17.	See Page 95	See Page 95	Chipper Knife Nut
18 a.	See Page 139	995-200001	2-Knife Disc Assembly (Includes 15-19 & 33-34)
b.	See Page 139	995-200002	3-Knife Disc Assembly (Includes 15-19 & 33-34)
c.	See Page 139	980-0123-82	Chipper Disc Lock Tube On Disc
19.	*-*	*-*	Fan Blade Assembly
20 a.	626-200027	995-200003	Hood Stationary Half for Manual Swivel Discharge
b.	626-200028	995-200004	Hood Stationary Half for Hand Crank Swivel Discharge
21.	900-4901-83	900-4908-27	Discharge Spring Lock
22 a.	626-300401	980-300424	Bottom Swivel Ring for Manual Swivel Discharge
b.	626-300401	980-0128-23	Bottom Swivel Ring for Hand Crank Swivel Discharge
23.	626-300106	980-300349	Hood Flange
24 a.	626-0501-16	980-0508-54	Spring Lock for Hood Pin
b.	900-7900-92	900-7900-93	Black Vinyl Cap
25 a.	626-300068	981-1006-48	Hood Pin With Attaching Chain
b.	900-4902-20	900-4902-20	Padlock for Hood Pin (Not Shown)
c.	P812	P812	Key for Padlock (Not Shown)
26.	626-200026	995-200005	Hood - Hinged Half
27.	626-300099	980-0101-59	Chipper Hood Hinge

- Contact your nearest dealer or Bandit Industries for Fan Blade Assemblies

** Components vary, order according to S/N of chipper or physical description.

For Chipper Disc only contact your nearest dealer or Bandit Industries.

Model 65 Disc Shaft is part of Chipper Disc Assembly.



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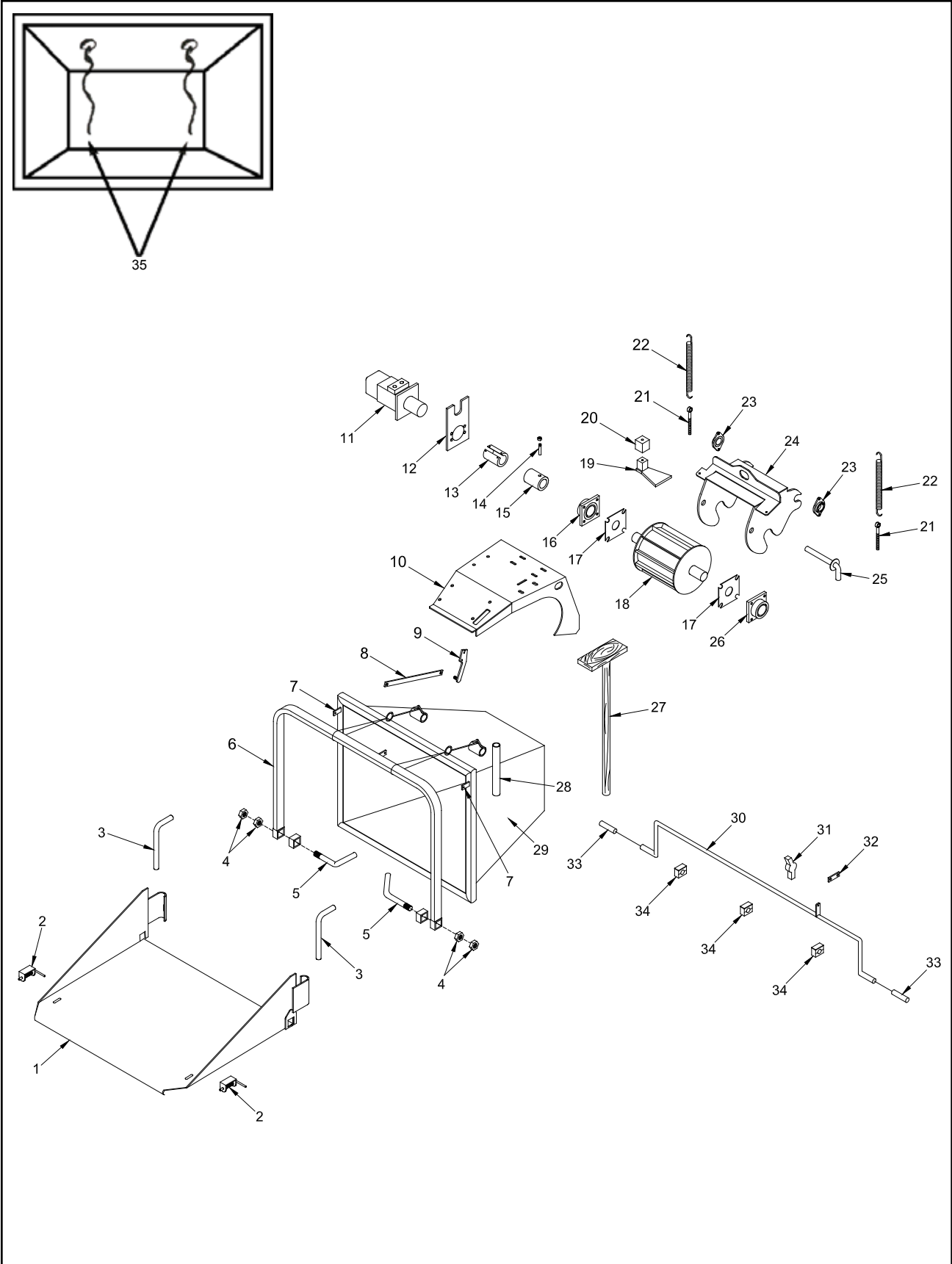
LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
28.	**	**	Chipper Sheave Bushing
29.	**	**	Chipper Sheave
30 a.	900-1903-30	900-1900-34	Rear Chipper Bearing
b.	900-4901-21	900-4903-32	Rear Chipper Bearing Bolt (Not Shown)
c.	900-4906-87	900-4906-87	Lock Washer (Not Shown)
31.	900-3900-69	900-3900-69	Rear Chipper Bearing Grease Line
32.	926-1002-61	980-0121-65	Rear Chipper Bearing Backer Plate
33 a.	N/A	980-0126-63	Chipper Draw Ring
b.	N/A	900-4902-96	Chipper Draw Ring Bolt (Not Shown)
c.	N/A	900-4902-97	Chipper Draw Ring Nut (Not Shown)
34.	See #45	980-0110-87	Chipper Shaft
35.	626-300048	626-0001-78	Hood Stop
36.	626-300068	955-1015-32	Chipper Disc Lock Pin
37 a.	**	**	Drive Sheave
b.	**	**	Drive Sheave Bushing (Not Shown)
38 a.	900-1903-25	N/A	6 Spline Adaptor-1 3/8" Dia. Shaft To 1 3/8" Dia. 6 Spline
b.	980-0113-54	N/A	21 Spline Adaptor- 1 3/8" Dia. Shaft To 1 3/8" Dia. 21 Spline
c.	N/A	900-1907-96	6 Spline Adaptor-1 1/2" Dia. Shaft To 1 3/8" Dia. 6 Spline(Start 2/03)
d.	N/A	900-1903-25	6 Spline Adaptor-1 3/8" Dia. Shaft To 1 3/8" Dia. 6 Spline(Pre 2/03)
e.	N/A	980-0113-54	21 Spline Adaptor- 1 3/8" Dia. Shaft To 1 3/8" Dia. 21 Spline(Pre 2/03)
39 a.	900-6902-20	N/A	Yoke For Slip Clutch - 1 3/8" Diameter Shaft
b.	N/A	900-6907-94	Yoke For Slip Clutch - 1 1/2" Diameter Shaft (Start 2/03)
c.	N/A	900-6902-20	Yoke For Slip Clutch - 1 3/8" Diameter Shaft (Pre 2/03)
40.	900-6902-21	900-6902-21	Clutch Pack For Slip Clutch
41.	**	**	Drive Sheave
42 a.	900-1901-96	N/A	PTO Bearing - 1 3/8" Diameter
b.	N/A	900-1907-94	PTO Bearing - 2 1/4" Diameter (Start 2/03)
c.	N/A	900-1901-96	PTO Bearing - 1 3/8" Diameter (Pre 2/03)
43 a.	980-0110-21	N/A	PTO Shaft - 1 3/8" Diameter
b.	N/A	980-0134-75	PTO Shaft-2 1/4" Diameter To 1 1/2" Diameter(Start 2/03)
c.	N/A	980-300329	PTO Shaft- 2 1/4" Diameter To 1 3/4" Diameter 20 Spline(Start 2/03)
d.	N/A	980-300322	PTO Shaft- 2 1/4" Diameter To 1 3/8" Diameter 6 Spline(Start 2/03)
e.	N/A	980-300323	PTO Shaft- 2 1/4" Diameter To 1 3/8" Diameter 21 Spline(Start 2/03)
f.	N/A	980-0110-21	PTO Shaft - 1 3/8" Diameter (Pre 2/03)
44 a.	922-0006-37	980-0134-76	Belt Tightener Plate
b.	981-200040	981-200040	Belt Tightener Hinge (Not Shown)
c.	900-4902-74	900-4902-74	Belt Tightener Adjuster (Not Shown)
d.	900-4903-25	900-4903-25	Adjuster Jam Nut (Not Shown)
e.	986-1108-58	986-1108-58	Puller Block for Adjuster (Not Shown)
45 a.	626-200052	See Page 137	2-Knife Disc With Shaft and Fan Blades
b.	626-200053	See Page 137	3-Knife Disc With Shaft and Fan Blades
c.	626-300084	See Page 137	Chipper Disc Lock Tube On Disc
46.	**	**	Chipper Belt (Not Shown)
47.	**	**	Hydraulic Pump Belt (Not Shown)

-- Contact your nearest dealer or Bandit Industries for Fan Blade Assemblies

** Components vary, order according to S/N of chipper or physical description.

For Chipper Disc only contact your nearest dealer or Bandit Industries.

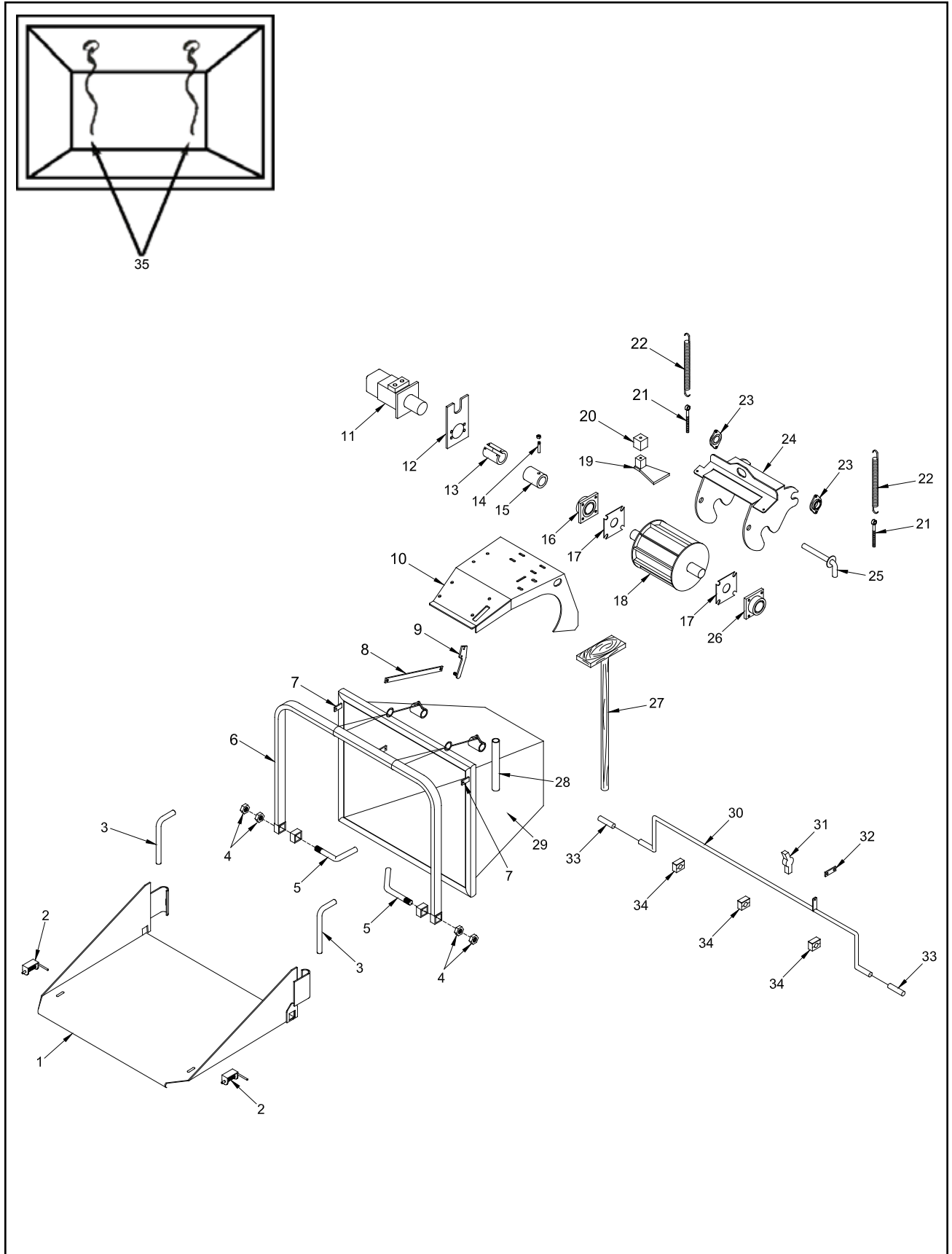
Model 65 Disc Shaft is part of Chipper Disc Assembly.



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LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
1.	626-200019	995-100000	Folding Pan for Infeed Hopper
2 a.	900-4901-83	900-4901-83	Folding Pan Spring Lock & Trap Door Lock
b.	900-7900-93	900-7900-93	Rubber Cap (Not Shown)
3 a.	955-1003-94	955-1003-94	Folding Pan Lock Pin
b.	900-7900-96	900-7900-96	Rubber Cap (Not Shown)
4.	900-4900-44	900-4900-44	Pivot Pin Jam Nuts
5.	626-300001	980-0122-58	Pivot Pin
6.	626-200020	980-100019	Control Handle
7.	980-0137-06	980-0137-06	Lock Tab for Folding Pan
8.	626-0001-80	980-300156	Hydraulic Control Arm
9.	980-0125-74	980-0125-74	Feedwheel Control Valve Linkage
10.	N/A	995-200000	Winch and Valve Mount (Start 9/04 Approx.)
11 a.	900-3927-67	900-3908-68	Feedwheel Hydraulic Motor (Tapered Shaft)
b.	N/A	900-3908-19	Feedwheel Hydraulic Motor (RE-32 With Straight Shaft)
c.	N/A	900-3906-30	Feedwheel Hydraulic Motor (RE-45 With Straight Shaft)
12.	980-0124-98	981-1006-44	Feedwheel Torque Arm
13 a.	900-7901-23	900-7901-23	Rubber Coupler Guard - 17 3/4" (Start 6/05)
b.	900-7900-38	900-7900-38	Rubber Coupler Guard - 15 3/4" (Pre 6/05)
c.	980-0508-57	980-0508-57	Coupler Guard Mount (Not Shown)
14 a.	900-4909-53	900-4909-54	Taper Pin With Nut
b.	900-4903-99	900-4905-55	Taper Pin
15 a.	626-300268	981-300140	Coupler With Motor Nut and Taper Pin With Nut
b.	626-0001-69	981-1006-45	Coupler With Motor Nut and Taper Pin
16 a.	900-1909-80	900-1909-80	Feedwheel Bearing (Grip-Tight Style) (Start 8/04)
b.	900-4912-37	900-4912-37	Feedwheel Bearing Bolt (1/2"-13NC x 1" SHCS)
c.	900-1900-66	900-1900-66	Feedwheel Bearing (Pre 8/04)
d.	900-4900-13	900-4900-13	Feedwheel Bearing Bolt (Pre 8/04)
17.	980-300083	980-300083	Feedwheel Bearing Backer Plate
18 a.	626-200054	995-200006	Feedwheel Assembly
b.	626-300132	980-0120-39	Feedwheel Tooth - Knife Edge
c.	626-300134	N/A	Feedwheel Tooth - Serrated
d.	626-300062	981-0501-34	Feedwheel Shaft & Coupler Assembly
19 a.	980-300515	981-300199	Torque Arm Stop (Start 4/06)
b.	937-300316	937-300316	Torque Arm Cushion Mount (Start 4/06)
c.	980-300069	981-1006-71	Torque Arm Stop (Pre 4/06)
d.	955-1014-01	955-1014-01	Torque Arm Stop Block (Pre 4/06)
20.	937-900009	937-900009	Torque Arm Cushion (Start 4/06)
21.	900-4905-43	900-4902-29	Yoke Spring Adjuster
22.	900-4900-04	900-4900-04	Yoke Spring
23.	900-1901-08	900-1901-08	Yoke Pivot Bearing
24.	626-200056	995-200007	Top Yoke Assembly

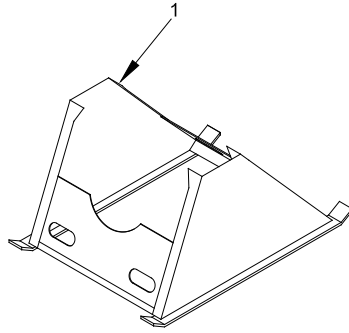


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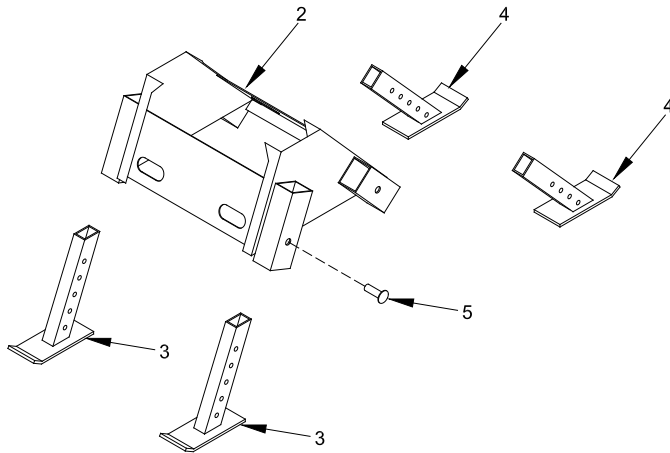
Bandit

LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
25.	626-300068	955-1015-32	Yoke Lock Pin
26 a.	900-1909-79	900-1909-79	Feedwheel Bearing (Set Screw Style) (Start 8/04)
b.	900-1909-81	900-1909-81	Feedwheel Bearing - Debris (Set Screw) (Start 8/04)
c.	900-4912-37	900-4912-37	Feedwheel Bearing Bolt (1/2"-13NC x 1" SHCS)
d.	900-1900-66	900-1900-66	Feedwheel Bearing (Pre 8/04)
e.	900-4900-13	900-4900-13	Feedwheel Bearing Bolt (Pre 8/04)
27.	626-0000-52	980-0507-42	Wooden Push Paddle
28 a.	980-0122-55	980-0122-55	Wooden Push Paddle Mount
b.	900-4914-18	900-4914-18	Plastic Knob (Not Shown)
29.	626-200009	995-0500-32	Infeed Hopper Assembly
30.	N/A	980-300064	Dual Yoke Lift Control Bar
31.	N/A	900-3930-96	Short Valve Handle - Lift Cylinder Control Linkage
32.	N/A	980-0137-41	Control Arm - Dual Yoke Lift
33.	N/A	900-7900-96	Rubber Cap - Dual Yoke Lift Control Bar
34.	N/A	900-3914-02	Clamp - Lift Control Bar
35 a.	980-0508-64	980-0508-64	Last Chance Cable Assembly
b.	900-4904-29	900-4904-29	Last Chance Orange Cable & Clamp

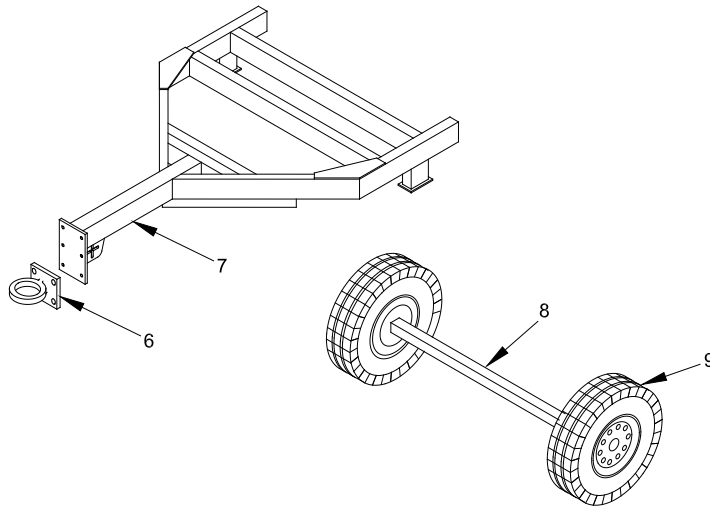
STANDARD LEGS



ADJUSTABLE LEGS



TRAILERIZED



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STANDARD LEGS

LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
1.	626-200057	995-200008	Standard Leg Assembly

ADJUSTABLE LEGS

LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
2.	626-200058	995-200009	Adjustable Leg Assembly
3.	626-200059	995-200011	Rear Adjustable Legs (3-Point Side)
4.	626-200059	995-200010	Front Adjustable Legs (Infeed Hopper Side)
5.	986-1108-53	986-1108-53	Pin

TRAILERIZED

LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
6 a.	900-5900-13	900-5900-13	2 1/2" Heavy Duty Pintle Ring Hitch
b.	900-5905-73	900-5905-73	3" Heavy Duty Pintle Ring Hitch (Not Shown)
c.	980-0505-33	980-0505-33	2 5/16" Ball Coupler Assembly (Not Shown)
d.	980-0501-47	980-0501-47	2" Ball Coupler Assembly (Not Shown)
e.	980-0507-78	980-0507-78	1" Drop Pin Hitch Assembly (Not Shown)
7.	626-200001	986-200020	Frame Assembly
8.	900-5904-17	900-5903-69	Axle
9 a.	900-5905-90	N/A	20.5" x 8" x 10" Tire And White, 5-Bolt Rim
b.	900-5905-88	N/A	20.5" x 8" x 10" Tire Only
c.	900-5905-89	N/A	10" White, 5-Bolt Rim Only
d.	N/A	900-5901-69	185/75R-14" Tire And Black, 5-Bolt Rim
e.	N/A	900-5903-08	185/75R-14" Tire Only
f.	N/A	900-5901-60	14" Black, 5-Bolt Rim Only

