

# MADE IN THE U.S.A.

# OPERATORS AND PARTS MANUAL MODEL 810M CHIPPER



#### MANUFACTURER OF OUTDOOR POWER EQUIPMENT

Products for Turf & Lawncare, Rental, Construction, Tree care, Wood Processing, Nursery & Farm Industries
Other Salsco Equipment

3-1/2" - 18", Gas, Diesel, and P.T.O, Wood/Brush Chippers Chipper Shredder Vacuums - Tailgate & Truckloader Vacuums Shaving Mills - Gas and Electric Greens Rollers

Quality of Workmanship, Innovative Design, Built to Last!

105 School House Road Cheshire, CT 06410 U.S.A. 800-872-5726, 203-271-1682, 203-271-2596 (Fax) sales@salsco.com, www.salsco.com

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# **MODEL 810M CHIPPER**

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# SALSCO, INC.

105 School House Road Cheshire, CT 06410 USA 800-872-5726, 203-271-1682 203-271-2596 (Fax) www.salsco.com, sales@salsco.com

#### STATEMENT OF FACT

You have just purchased the highest quality, most dependable, Chipper on the market today. This unit has the ability to meet exact standards and perform for years with minimum downtime. **HOWEVER**, it cannot read nor will it understand this manual no matter how long you leave it on top of the machine.

It is your responsibility to read and understand this manual; it is also your responsibility to be certain this information is passed along to anyone who is expected to operate this equipment. Should you choose not to read, understand and pass along the information provided you, please expect equipment failure and possible injuries to persons around this equipment.

For the safety of the operator, it is imperative that this manual is carefully read and understood.

Once you have read this manual, it is your responsibility to be sure that all new operators read and understand this manual, especially all cautions stated.

As a manufacturer of equipment, we have a responsibility to design a safe piece of equipment. NOTE: The important safeguards and instructions in this manual are not meant to cover all possible conditions and situations that may occur. It must be understood that common sense, caution, and care are factors, which cannot be built into any product. These factors must be supplied by the person(s) caring for and operating this equipment.

#### **ONLY YOU CAN PREVENT ACCIDENTS!**

#### SPECIFICATIONS & FEATURES

The Salsco Model 810M is ruggedly built to withstand high volume usage by many different industries. Rental – Tree Care – Commercial Lawn and Golf Courses, just to name a few.

Some of the standard features and options include heavy duty ¼" diamond plate fenders with enclosed light guards, lockable tanks, extra large hydraulic and fuel tanks with drain plugs, 5,000-lb. axle, large, high speed, 28.10" diameter tires, bolt on feed hopper, two bed knives and 360° swivel chute.

The trailer frame is constructed of 2" x 4" rectangular steel tubing, continuous weld for strength and gussets where needed. The 5,000-lb Torflex axle features an independent suspension, cushioned with rubber, providing a smoother, quieter ride with no transfer of road shock from one wheel to the other.

Model 810M has a huge 10" x 18" chipper inlet opening and a 21" diameter feed roll. This, coupled with the largest infeed hopper in the industry, 1,881 square inches, allows our machine to ingest whole trees, branches and all. Even the largest home Christmas trees are no problem. Our Model 810, because of our feed roll design, will not only handle the hard woods of the North, but the grassy palm fronds of the Southern states. This unit will handle all your chipping needs, no matter what type of tree or plant.

The feed roll receives its power through a jackshaft from a hydraulic motor. This allows a double gear reduction and thus an increase of available torque. You'll be amazed with the smoothness and ease of this feed system.

We use two bed knives, one horizontal and one vertical, which allows our machine to cut, where others might shred.

Safety is our main concern and we have gone the extra mile. However, only you can save yourself and your employees from the danger, which lies in these machines. It is your responsibility as the buyer of this machine, to make sure the operator has been trained. Talk to your operators every day – hold classes. Do something to help yourself. We can only go so far.

# **MACHINE REGISTRATION**

MANUFACTURED BY:	SALSCO, INC. 105 School House Rd., Cheshire, CT 06410 800-872-5726, 203-271-1682, 203-271-2596 (Fax) sales@salsco.com www.salsco.com
THIS MANUAL COVERS MODEL: 810M, W	OOD/BRUSH CHIPPER
	add improvements to, or change the design of any model or we existing machines, either by changing the design or adding new
¥ •	SALSCO to update existing machines at its own discretion.  I such a way that they can be "Retro Fit" if so desired.
Record in the space provided below the model a future reference.	nd serial number of this unit. Please retain these numbers for
NO PARTS ORDERS will be accepted WITH numbers are listed in this manual.	OUT MODEL NUMBERS OR PART NUMBERS. All part
Serial Number	Model Number
NOTE: Be sure to complete your warranty card	. This will insure immediate processing of any warranty claims.
READ AND UNDERSTAND THIS	MANUAL BEFORE STARTING THE MACHINE
1/06	

#### **CAUTIONS**

READ THOROUGHLY THE OPERATOR SAFETY INSTRUCTIONS ON THE FOLLOWING PAGES WHICH ARE THE AMERICAN NATIONAL STANDARD OF POWERED SHREDDERS/GRINDERS SAFETY SPECIFICATIONS, PROVIDED BY ANSI AND THE O.P.E.I.

THE FOLLOWING CADUTIONS ARE PROVIDED BY SALSCO AS A QUICK REFERENCE ONLY AND ARE NOT MEANT TO REPLACE THE PRECAUTIONS ON THE FOLLOWING PAGES.

#### - THINK -

- 1. **ALWAYS** use protective eyewear when machine is in operation.
- 2. **ALWAYS** use gloves and wear ear protection when machine is in operation.
- 3. **NEVER** put hands, legs or any part of your body into or near the chipper intake or discharge openings.
- 4. **NEVER** run machine with guards removed.
- 5. <u>ALWAYS</u> allow machine to cool off, remove key and put engine in neutral before attempting any maintenance or repair.
- 6. **<u>BE SURE</u>** machine has stopped completely, engine is off, key is removed and spark plug is disconnected before attempting any service or maintenance.
- 7. **NEVER** stand in front of chipper infeed hopper. It is possible for a chip or piece of wood to be thrown out.
- 8. **BE SURE** the machine is parked on a dry level surface before starting operation.
- 9. **<u>DO NOT</u>** operate with loose clothing or long unrestrained hair. **<u>BE SURE</u>** vines and branches are not wrapped around your body parts.
- 10. **<u>DO NOT</u>** operate on ice or any other slippery surface. **<u>BE SURE</u>** area around machine is clear and clean. You don't want to trip or fall into the machine.
- 11. **NEVER** leave machine running unattended, especially around youngsters or persons not instructed in the safe operation of this machine.
- 12. **READ** and understand federal guidelines provided with this manual on the following pages.

#### - IT'S YOUR HAND OR FOOT -

#### BRUSH CHIPPERS ANSI Z133.1-2006

## American National Standard for Arboricultural Operations Safety Requirements

#### 5.3 Brush Chippers

- 5.3.1 The items contained in section 5.1 shall always be included in the review of this section.
- 5.3.2 Access panels (for example, guards) for maintenance and adjustment, including discharge chute and cutter housing, shall be closed and secured prior to starting the engine of brush chippers. These access panels shall not be opened or unsecured until the engine and all moving parts have come to a complete stop (see Annex C, General Safety Procedures That Apply to All Tree Work).
- 5.3.3 Rotary drum or disc brush chippers not equipped with a mechanical infeed system shall be equipped with an infeed hopper not less than 85 inches (2.15 m) measured from the blades or knives to ground level over the center line of the hopper. Side members of the infeed hopper shall have sufficient height so as to prevent workers from contacting the blades or knives during operations.
- 5.3.4 Rotary drum or disc brush chippers not equipped with a mechanical infeed system shall have a flexible anti-kickback device installed in the infeed hopper to reduce the risk of injury from flying chips and debris.
- 5.3.5 Chippers equipped with a mechanical infeed system shall have a quick-stop and reversing device on the infeed system. The activating mechanism for the quick-stop and reversing device shall be located across the top, along each side, and close to the feed end of the infeed hopper within easy reach of the worker.
- 5.3.6 Vision, hearing, and/or other appropriate personal protective equipment shall be worn when in the immediate area of a brush chipper in accordance with section 3.4, Personal Protective Equipment.
- 5.3.7 Arborists, mechanics, and other workers shall not, under any circumstances, reach into the infeed hopper when the cutter disc, rotary drum, or feed rollers are moving.
- 5.3.8 When trailer chippers are detached from the vehicles, they shall be chocked or otherwise secured in place.
- 5.3.9 When in a towing position, chipper safety chains shall be crossed under the tongue of the chipper and properly affixed to the towing vehicle.
- 5.3.10 See section 8.6, Brush Removal and Chipping, for additional requirements.

#### BRUSH REMOVAL AND CHIPPING ANSI Z133.1-2006

#### American National Standard for Arboricultural Operations Safety Requirements

#### 8.6 Brush Removal and Chipping

- 8.6.1 Traffic control around the jobsite shall be established prior to the start of chipping operations along roads and highways (see section 3.2, Traffic Control Around the Jobsite).
- 8.6.2 Brush and logs shall not be allowed to create hazards in the work areas.
- 8.6.3 To prevent an entanglement hazard, loose clothing, climbing equipment, body belts, harnesses, lanyards, or gauntlet-type gloves (for example, long-cuffed lineman's or welder's gloves) shall not be worn while operating chippers.
- 8.6.4 Personal protective equipment shall be worn when in the immediate area of chipping operations in accordance with section 3.4, Personal Protective Equipment, of this standard.
- 8.6.5 Training shall be provided in the proper operation, feeding, starting, and shutdown procedures for the chipper being used.
- 8.6.6 Maintenance shall be performed only by those persons authorized by the employer and trained to perform such operations.
- 8.6.7 Brush and logs shall be fed into chippers, butt or cut end first, from the side of the feed table center line, and the operator shall immediately turn away from the feed table when the brush is taken into the rotor or feed rollers. Chippers should be fed from the curb-side whenever practical.
- 8.6.8 The brush chipper discharge chute or cutter housing cover shall not be raised or removed while any part of the chipper is turning or moving. Chippers shall not be used unless a discharge chute of sufficient length or design is provided that prevents personal contact with the blades (see Annex C, General Safety Procedures That Apply to All Tree Work).
- 8.6.9 Foreign material, such as stones, nails, sweepings, and rakings, shall not be fed into chippers.
- 8.6.10 Small branches shall be fed into chippers with longer branches or by being pushed with a long stick.
- 8.6.11 Hands or other parts of the body shall not be placed into the infeed hopper. Leaning into or pushing material into infeed hoppers with feet is prohibited.
- 8.6.12 While material is being fed into the chipper infeed hopper chute, pinch points continually develop within the material being chipped and between the material and machine. The operator shall be aware of this situation and respond accordingly.
- 8.6.13 When feeding a chipper during roadside operations, the operator shall do so in a manner that prevents him or her from stepping into traffic or being pushed into traffic by the material that is being fed into the chipper.
- 8.6.14 When using a winch in chipper operations, the operator shall ensure that the winch cable is properly stored before initiating chipper operations.
- 8.6.15 Refer to section 5.3, Brush Chippers, for additional information.

#### **SAFETY DECALS**

#### PART # 0314020

# SAFETY RULES

- 1. DO NOT OPERATE WITH COVERS OFF.
- 2. KEEP HANDS & FEET AWAY!
- 3. DO NOT REFILL FUEL WHILE ENGINE IS HOT OR IS RUNNING!
- 4. READ MANUAL BEFORE OPERATING.
- DO NOT OPERATE AROUND ANIMALS OR PEOPLE.
- 6. CAUTION MACHINE CAN TURN DEBRIS INTO FLYING OBJECTS!

#### PART # 0314062



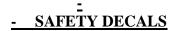
#### PART # 0314029



#### PART # 0314049

# **CAUTION**

DO NOT OPERATE
THIS MACHINE WITHOUT
COVERS IN PLACE



PART # 0314060



#### **MOVING PART HAZARD**

To prevent serious injury or death from moving parts:

- Close and secure guards and shields before starting.
- Keep hand, feet, hair and clothing away from moving parts.
- Disconnect and lockout power source before adjusting or servicing.
- Do not stand or climb on machine when operating.

SW40

PART # 0314062



#### THROWN OBJECT HAZARD

To prevent injury or death from outlet chute projectiles:

- Stay away from outlet during operation.
- · Keep others away.
- Do not direct outlet toward people, animals or buildings.

SW804

PART # 0314015



KEEP HANDS AND FEET AWAY

PART # 0314063



#### **OPERATING INSTRUCTIONS**

Count your extremities before you start! Feet, hands, fingers, etc.

- 1. Read the manual again.
- 2. Look at the finger decal and study it. These could be yours!
- 3. Be sure all guards are in place before starting machine.
- 4. Set feed handle in reverse position (push towards machine).
- 5. Check engine oil and fuel levels, as per engine manufacturers specifications.
- 6. Be sure machine is on dry, flat surface and it's secured from rolling.
  - HINT: Be sure machine is not to close to the woodpile. You need room to work and move around.
- 7. Set engine just above idle and start motor. (Be sure to check that no one is around this machine but you). If you have a diesel engine, you may have cold engine start. Refer to the engine manual.
- 8. With machine just over idle and after the engine has warmed up, engage the clutch slowly.
- 9. Check engine manual for full throttle R.P.M. and recommendations and bring your machine to that R.P.M.
- 10. You are ready to chip wood, as soon as you put your safety glasses and gloves on and insert earplugs.
- 11. Move the feed handle away from the machine. This will engage the feed roll.
- 12. Standing at the rear of the machine, looking at the hopper, feed the wood to the feed roll. Once the machine begins, turn and walk away from the machine. It will draw the wood in without your help. Go get another piece and repeat this procedure.
- 13. With large diameter pieces, it may be necessary to send in a smaller piece to start the feed roll. Also, it may be necessary to monitor R.P.M. and back off on feed speed.
- 14. MACHINE SHUTDOWN PROCEDURES: Bring R.P.M. down to a full idle and disengage the clutch. Let engine run a few minutes to cool down and then shut down. Chipper flywheel will still be rotating.

#### **HINTS**

- 1. When operating machine, stand off to the side of the feed hopper when feeding wood into the machine. NEVER STAND DIRECTLY IN FRONT OF THE FEED HOPPER WHEN FEEDING WOOD INTO THE MACHINE.
- 2. When using the chipper and you have a short piece of wood bouncing around and not being grabbed by the feed roll, LEAVE IT! DO NOT TRY TO PUSH IT THROUGH WITH ARMS OR LEGS! The next limb will push it through.
- 3. When through with the job let the engine run at full R.P.M., making sure all material is through the machine before shutting it down. This will prevent injuries from flying debris when the machine is started up at the next job.
- 4. COUNT YOUR EXTREMITIES AGAIN. BE SURE THIS NUMBER MATCHES YOUR STARTING NUMBER.

WHILE PERFORMING MAINTENANCE OR REPAIR, ALWAYS REMOVE KEY FROM ENGINE!

#### SERVICE SCHEDULE

- 1. **Engine & clutch adjustments** follow service maintenance schedule set forth by the manufacturer in the engine and clutch manuals.
- 2. **Grease** all main bearings once a day. DO NOT OVER GREASE. Wipe extra grease off bearings. Bearing under guards for feed rolls need to be greased at least once a week. When removing guards, check chain tension.
- 3. Be sure to **clean** entire machine, especially around engine after using. Should it become necessary to remove the exhaust chute, REMOVE KEY FROM ENGINE. NEVER TURN ENGINE OVER WHILE EXHAUST CHUTE IS REMOVED.
- 4. **Sharpen/change chipper blades:** Remove key from engine and remove spark plug wires (gas engines only). Be sure throttle is in off position and clutch is disengaged. Be sure to put a red lock out tag on this machine to warn others of pending danger. Remove top pin from chipper housing access door and pivot housing open. This will allow access to impeller. Rotate impeller to a comfortable working position and tighten pusher screw against the impeller. This will lock the impeller while you service the blades. Sharpen the blades as evenly as possible and be sure you Locktite and tighten all bolts. A loose bolt coming out of this machine would be a large bullet. Should you drop a nut, bolt or blade in the housing you must retrieve it before you start up the machine. HINT: Salsco recommends replacement of nuts when replacing or sharpening chipper blades. The locking ability of these nuts may have been violated.
- 5. **Bed knife adjustment** is .070. To adjust the bed knife, remove access door on side of chip chamber and rotate impeller until blades pass in front of bed knife. Check with feeler gauge and set to .070. Repeat procedure for horizontal knife.
- 6. **Adjust infeed roll housing:** Remove both guards and pry housing front or rear and shim behind nylon. Tighten up and remove play.
- 7. **Check belt for wear and or adjustment:** Belt needs adjustment when belt is loose. Adjust belt as follows: Loosen four bolts holding engine and adjust engine to tighten bolts. You must remove the belt guard for proper access to belts.
- 8. **Remove infeed hopper:** Infeed hopper is removable for maintenance or storage but unit must **NEVER** be run without the hopper in place. Connect chain hoist or lifting device of some sort and remove bolts. Now hopper can be stored.
- 9. **Remove feed roll box:** Periodically the feed roll assembly will require disassembly. Remove the two hoses going to the drive motor (be sure to mark them for reassembly). Also, you must check the rotation of the feed roll upon reinstallation. Cap open hydraulic hoses. **Dirt is any hydraulic systems enemy.** Connect chain hoist or lifting device to feed roll box assembly and remove from machine. The feed roll can now be worked on to make necessary repairs. When replacing the feed roll box, be sure to shim behind the nylon wear strips to remove endplay.

SERVICE SCHEDULE	AS	DAILY	WEEKLY	MONTHLY
	NEEDED			
CHECK WHEEL BEARINGS	X	-	-	X
CHECK LUG NUTS	X	-	-	-
CHECK LIGHTS	X	X	-	-
CHECK ENGINE OIL	X	X	-	-
CLEAN MACHINE	X	X	-	-
GREASE INFEED ROLL BEARING	X	-	X	-
GREASE DISC SHAFT BEARING	X	X	-	-
SHARPEN CHIPPER BLADES	X OR	-	X	-
CHECK & ADJUST BED KNIFE	X OR	-	X	-
CHECK & ADJUST ROLL HOUSING	-	-	-	X
CHECK TIRE AIR PRESSURE	X	-	-	X
CHECK ALL NUTS & BOLTS	X	X	-	-
CHECK ENGINE BELT TENSION	X	-	X	-
CHECK HYDRAULIC OIL	X	-	-	X
CHECK HYDRAULIC HOSES	X	-	-	X

<u>NEVER, UNDER ANY CIRCUMSTANCES,</u> START THE ENGINE WHEN UNIT IS OPEN OR AT ANY TIME DURING SERVICE OR ROUTINE MAINTENANCE

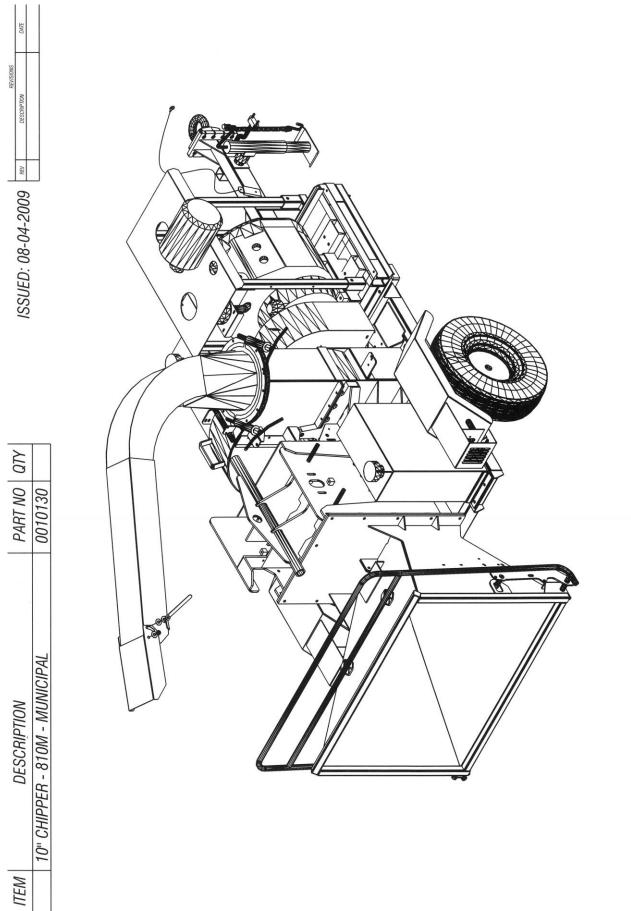
#### IMPELLER REMOVAL PROCEDURE

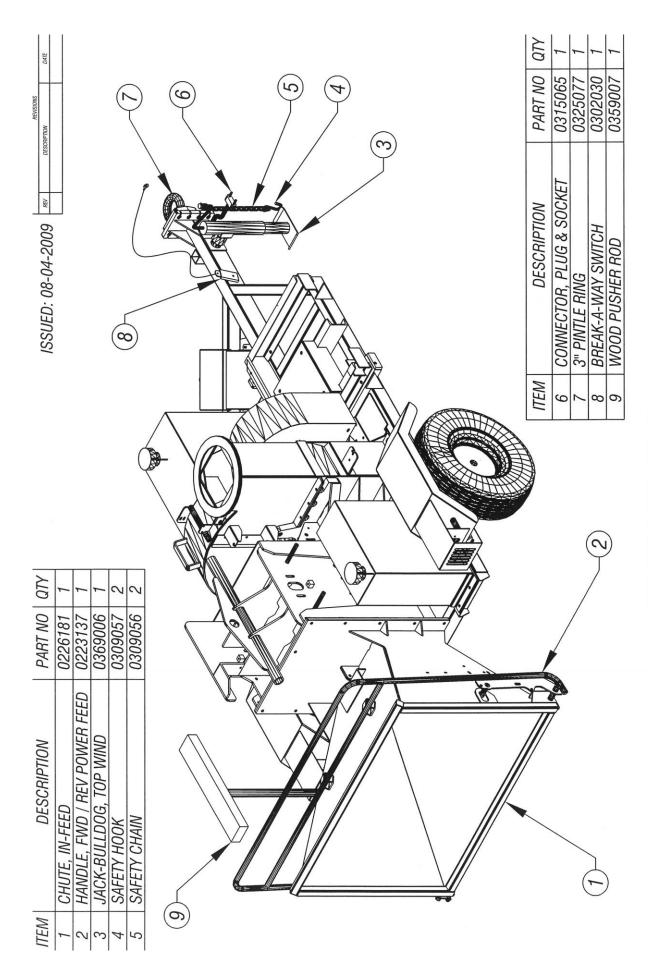
- 1. Remove key from engine and disconnect battery cables.
- 2. Remove discharge elbow.
- 3. Remove pin lock and pivot top housing open.
- 4. Remove top housing exhaust half.
- 5. Remove belt guard.
- 6. Remove hydraulic pump. Leave hoses connected, just slide out of sleeve and lay on the side.
- 7. Loosen engine-mounting bolts and back off slide pusher bolts. Loosen belts and remove.
- 8. Remove pulley from impeller shaft.
- 9. Remove top and bottom clevis pins from front feed wheel lift cylinder if unit is equipped with this option.
- 10. Loosen horizontal and vertical bed knives and slide them away from the impeller.
- 11. Remove chip blades from impeller. (Follow procedure in service schedule, line item # 4)
- 12. Connect lifting device to impeller. (Use bolt hole for chip blade and **KEEP IN MIND** WHEN CHOOSING A LIFTING DEVICE, THE IMPELLER WEIGHS APPROXIMATELY 700-lbs.)
- 13. Remove bolts from both flange bearings. Back off setscrews in bearings.
- 14. Carefully lift impeller out of machine.
- 15. Remove both flange bearings and all spacers from impeller.

#### INSTALLATION OF IMPELLER

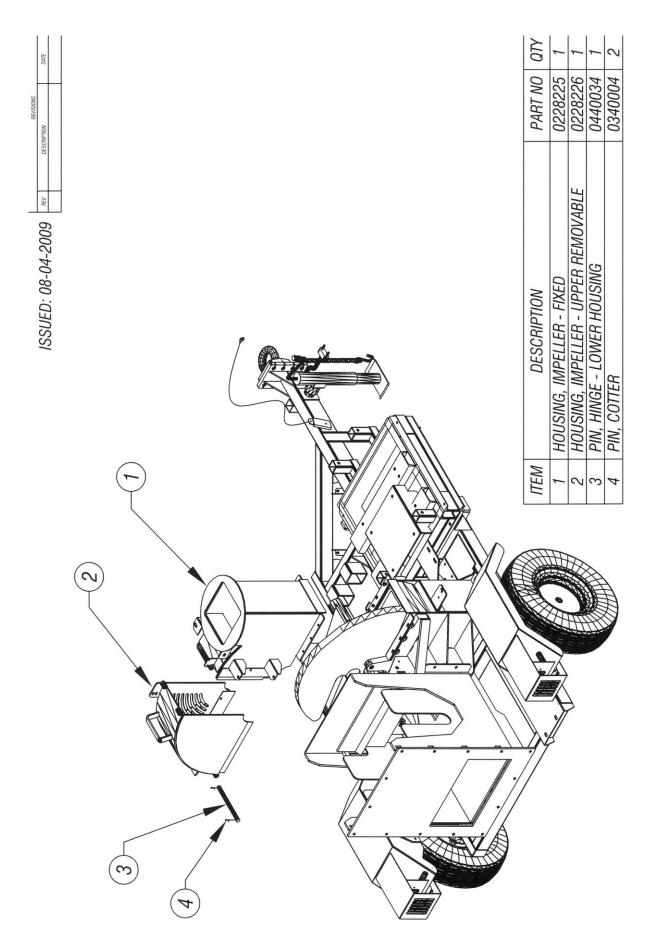
- Connect suitable lifting device to impeller and set in machine. KEEP IN MIND WHEN CHOOSING A LIFTING DEVICE, THE IMPELLER WEIGHS APPROXIMATELY 700-lbs. Be sure both shaft ends are clean and free from burrs. Bearing must slide freely on shaft.
- 2. Slide bearing on shafts and start the four bolts, rear bearing, two front bearings diagonally.
- 3. Tighten four bolts on rear bearing and two bolts on front bearings diagonally.
- 4. Slide impeller towards rear of machine. Impeller hub should touch rear-bearing race.
- 5. Measure distance from impeller hub and front bearing race.
- 6. Remove front bearing slide shims over shaft to equal that distance. **CAUTION: DO NOT ADD MORE SHIMS THAN ARE REQUIRED**. This could cause premature bearing failure. Reinstall front bearing.
- 7. With impeller shimmed and bearings tight, impeller should not slide front or rear.
- 8. Install all bearing mounting bolts with blue Loctite. Also Loctite and tighten bearing set screws.
- 9. Install all chip blades. Be sure to use new hardware and Loctite each time blades are removed and reinstalled. (Follow procedure in service schedule, line item #4)
- 10. Set bed knives and lock in place. (.070 clearance between chip blades and bed knives)
- 11. Reinstall top housing and discharge elbow. Be sure to use roll pin to keep housing aligned.
- 12. Install pulley. Be sure to use straight edge to line up pulley.
- 13. Install belts and adjust to specs shown in service manual with discharge chute and impeller assembly.
- 14. Be sure to recheck pulley with straight edge.
- 15. Install pump and use Loctite.
- 16. Install belt guard.
- 17. Install front lift cylinder, if so equipped.
- 18. Check to be sure all guards are in place and all bolts and nuts have been installed and tightened to proper specs.
- 19. Connect battery cables and start engine.
- 20. Engage clutch slowly. Start impeller and check for noise or vibration.
- 21. Engage impeller and bring engine up to operating R.P.M. **DO NOT START UNIT WITHOUT ALL GUARDS IN PLACE.**
- 22. Test lift cylinder feed wheel if so equipped.
- 23. Lower feed wheel and bring engine to idle.
- 24. Shut down engine and put machine in neutral.
- 25. Once machine has come to a halt, re-grease bearings.
- 26. Send machine to work. It's ready!

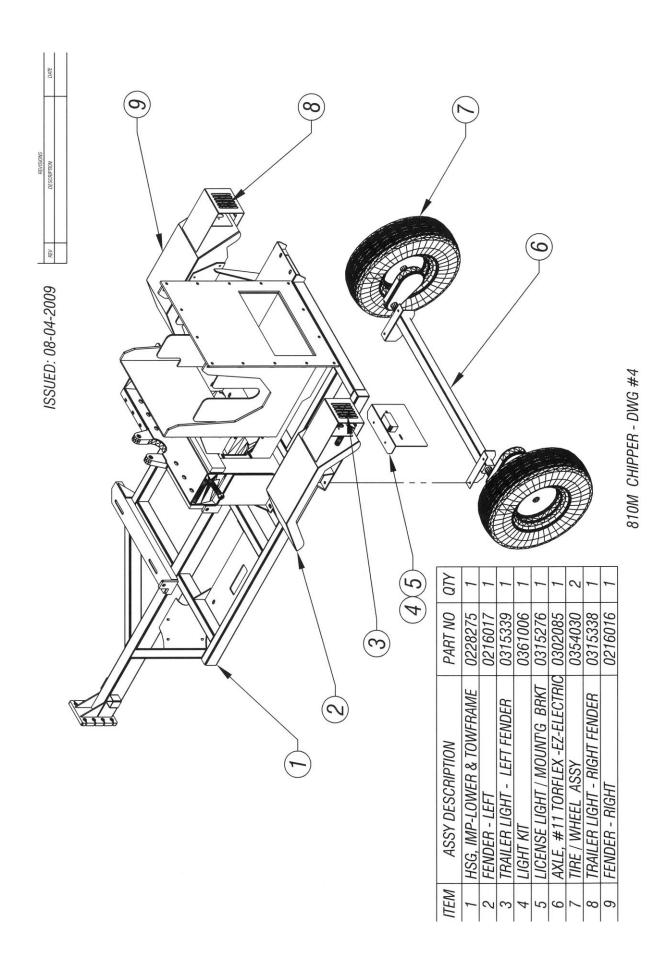
# REMEMBER: REMOVE KEY FROM ENGINE, DISCONNECT BATTERY CABLES AND LOCK-OUT UNIT WHENEVER PERFORMING SERVICE AND MAINTENANCE.

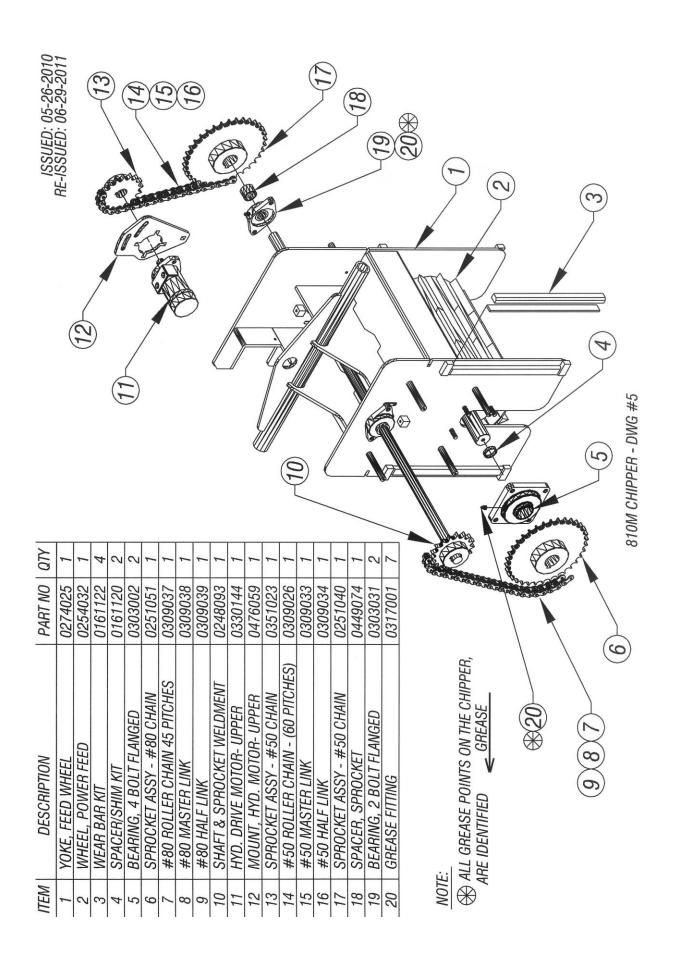


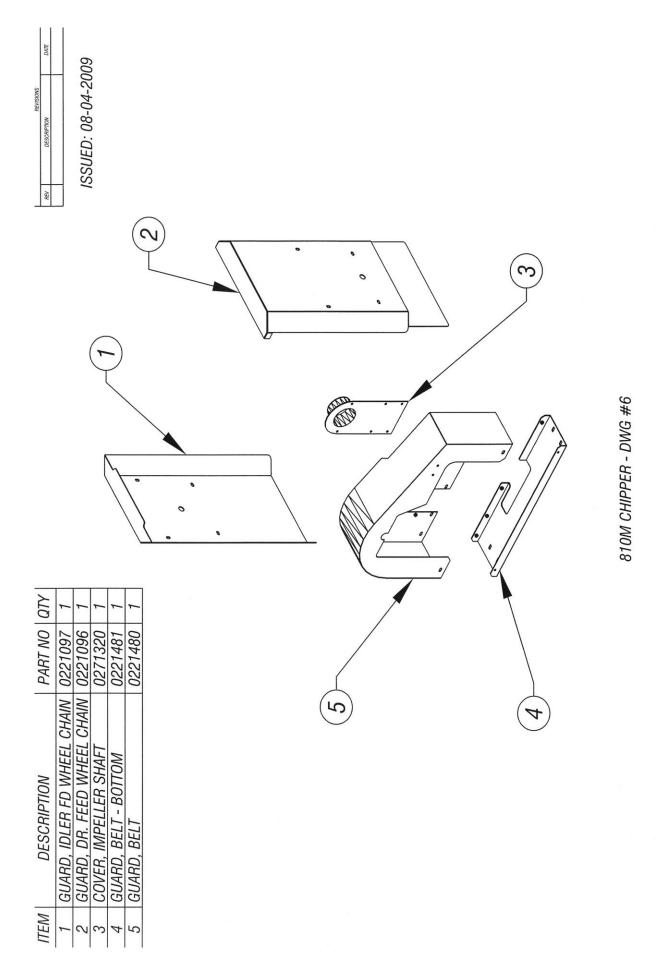


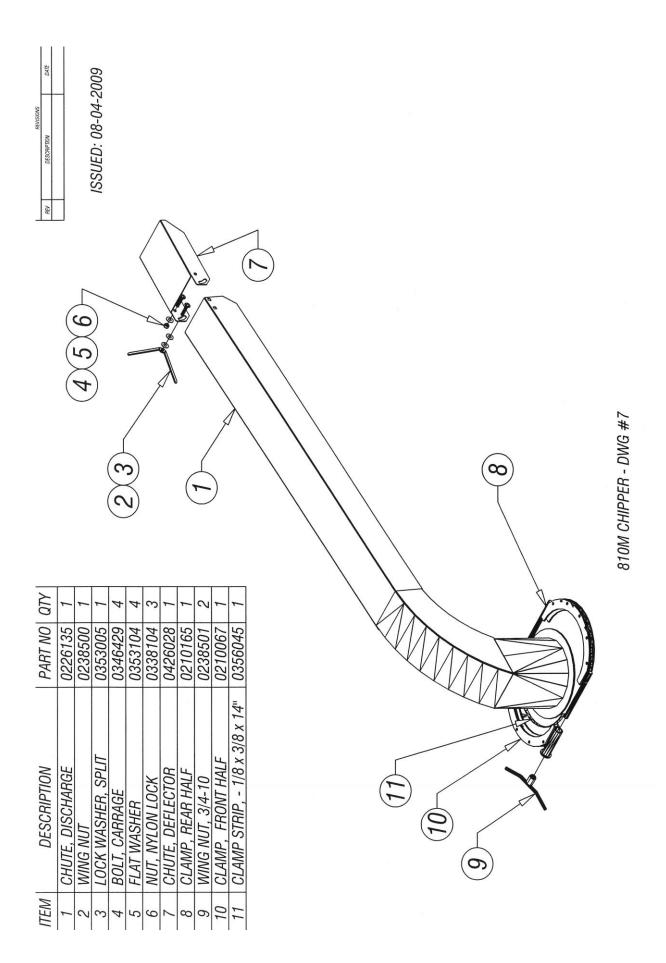
810M CHIPPER ASSY - DWG #2

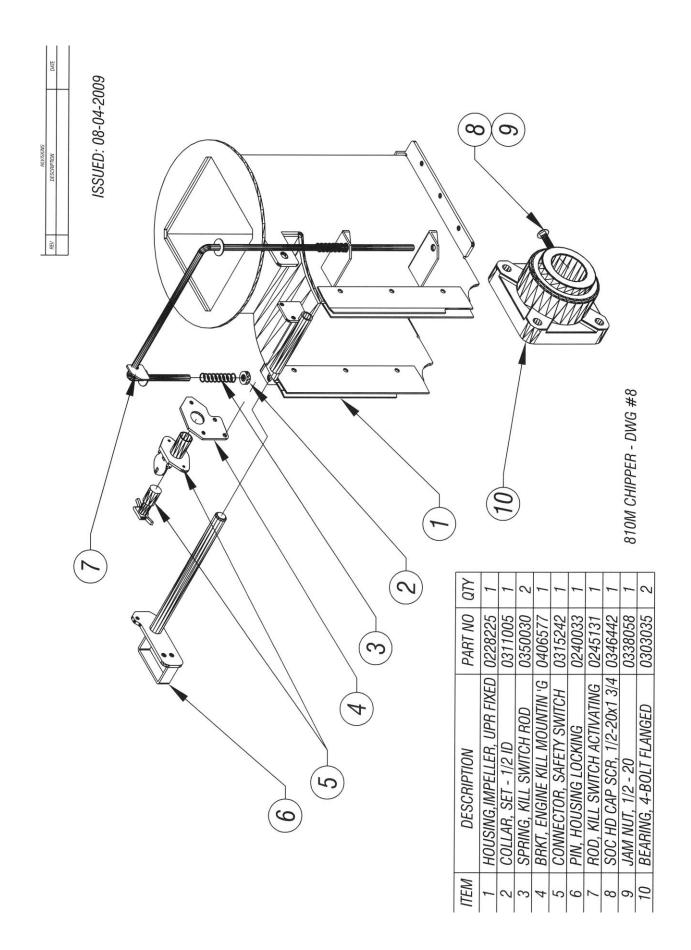


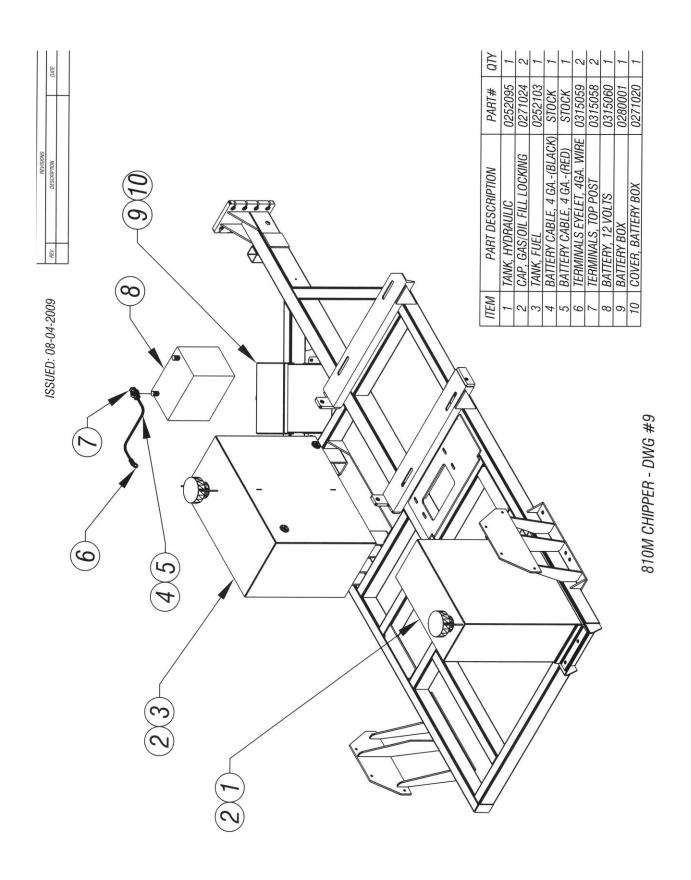


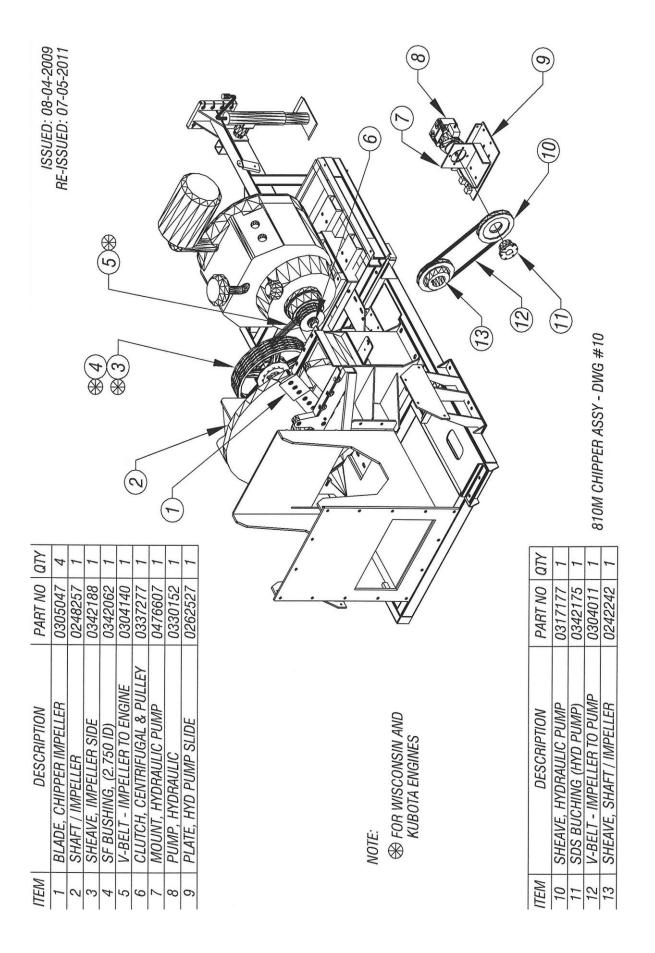


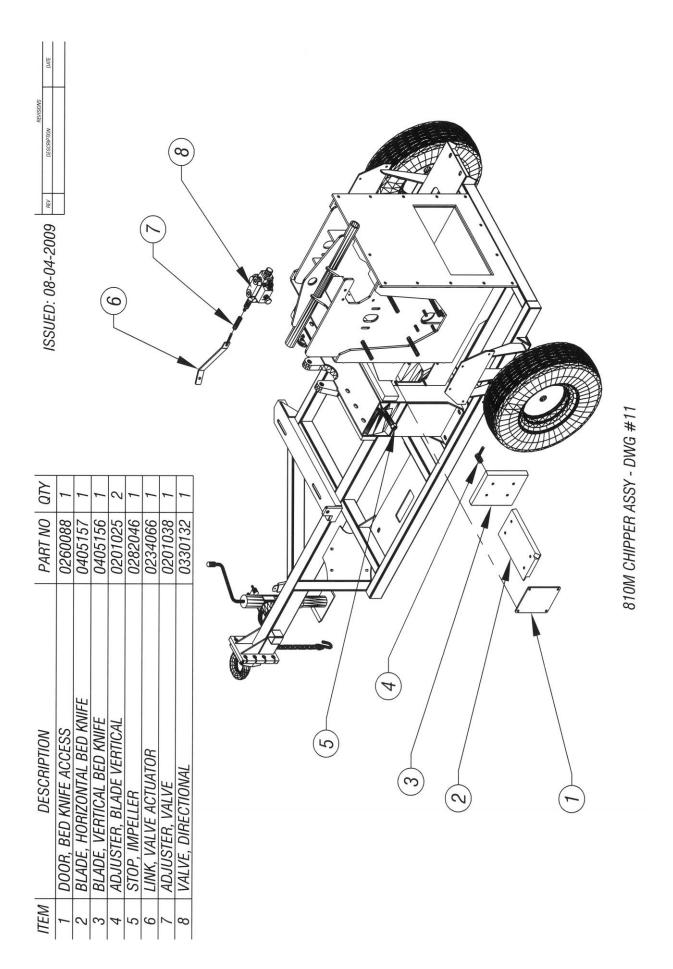


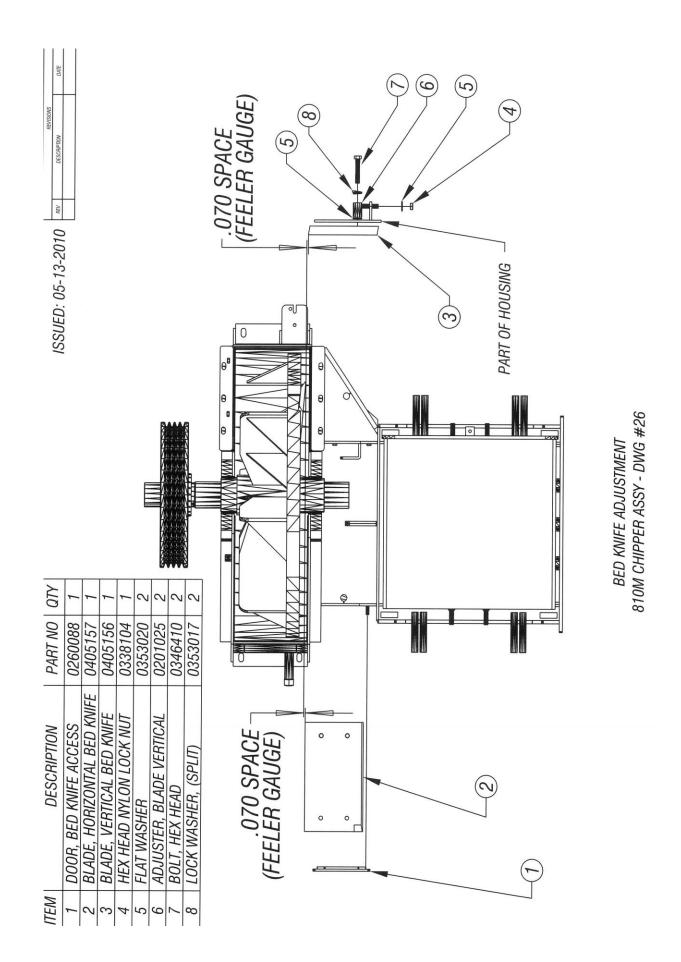


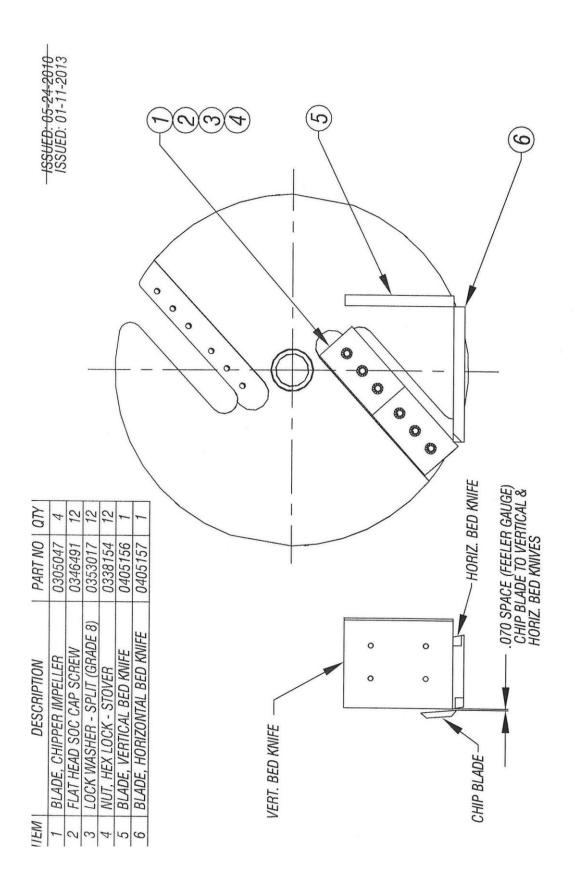




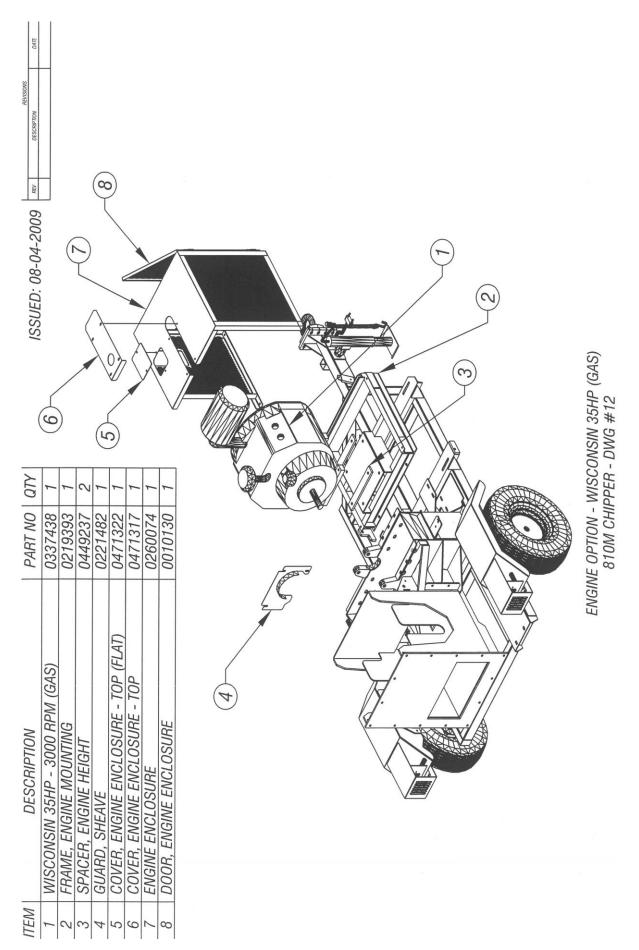


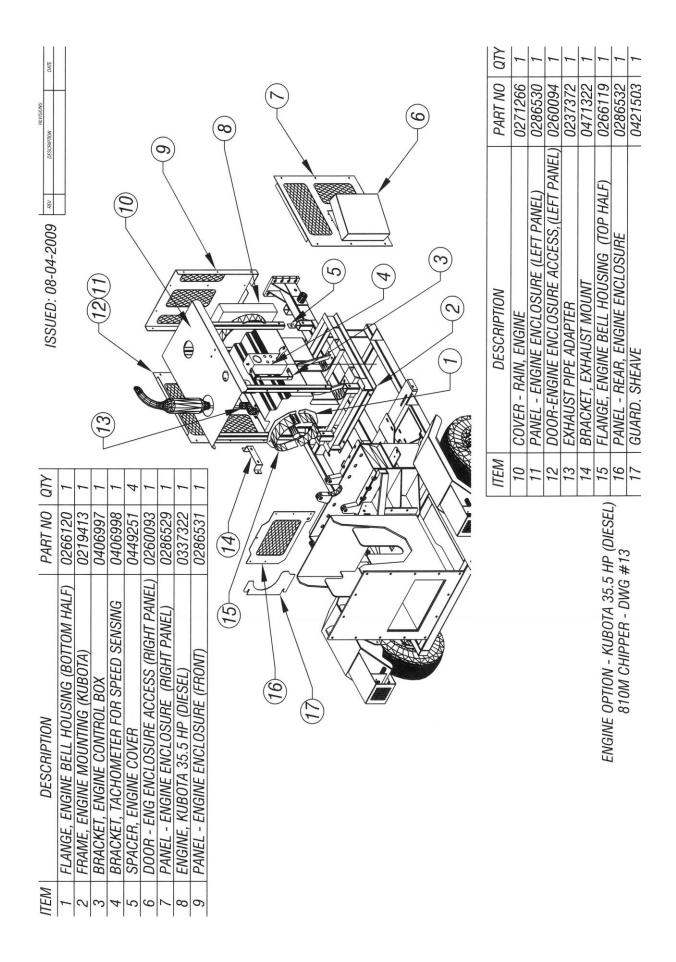


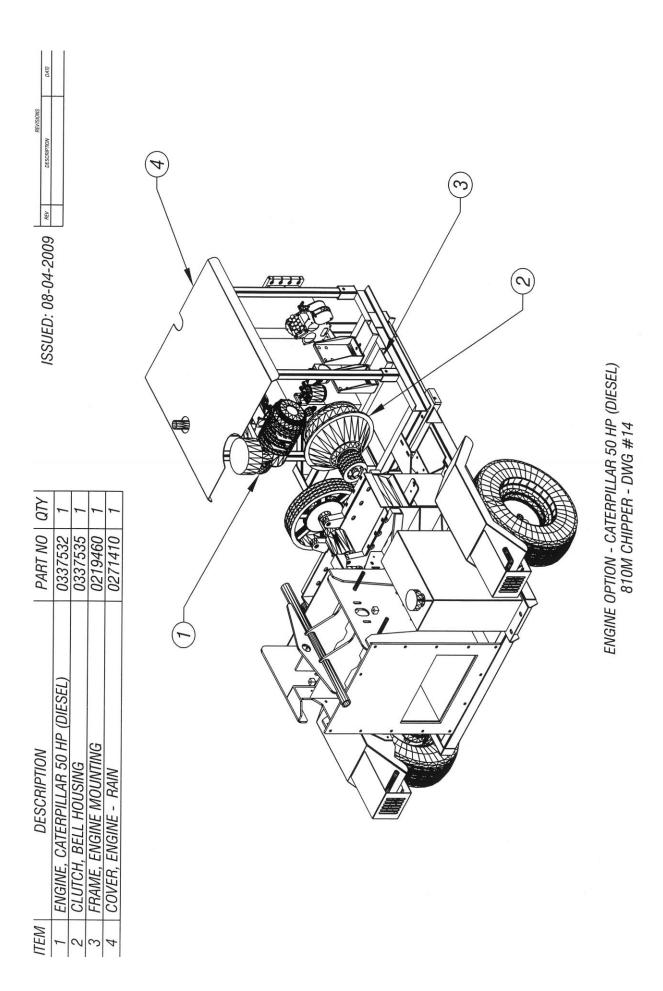


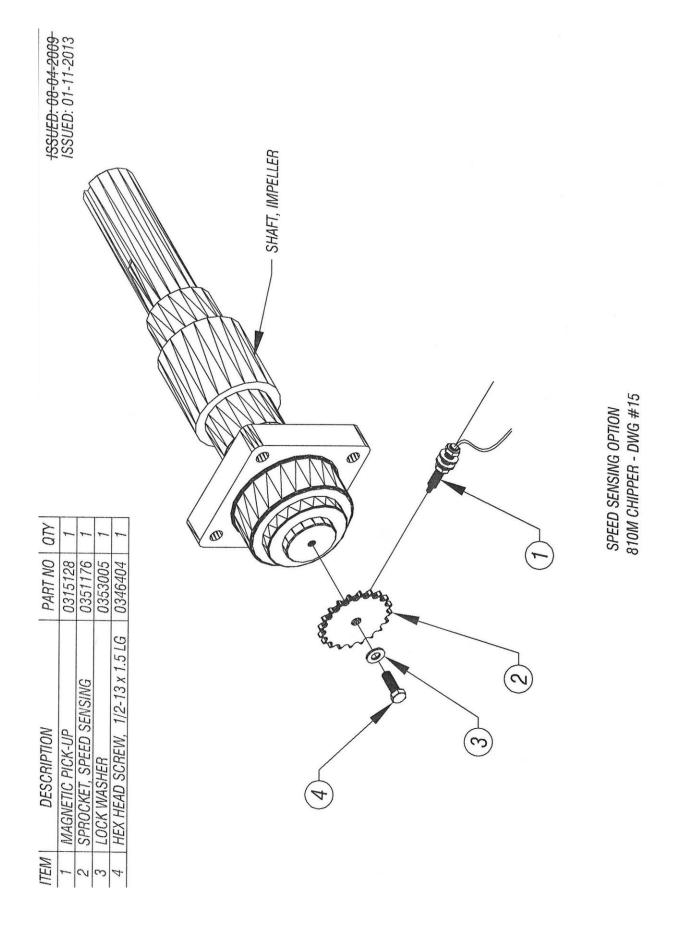


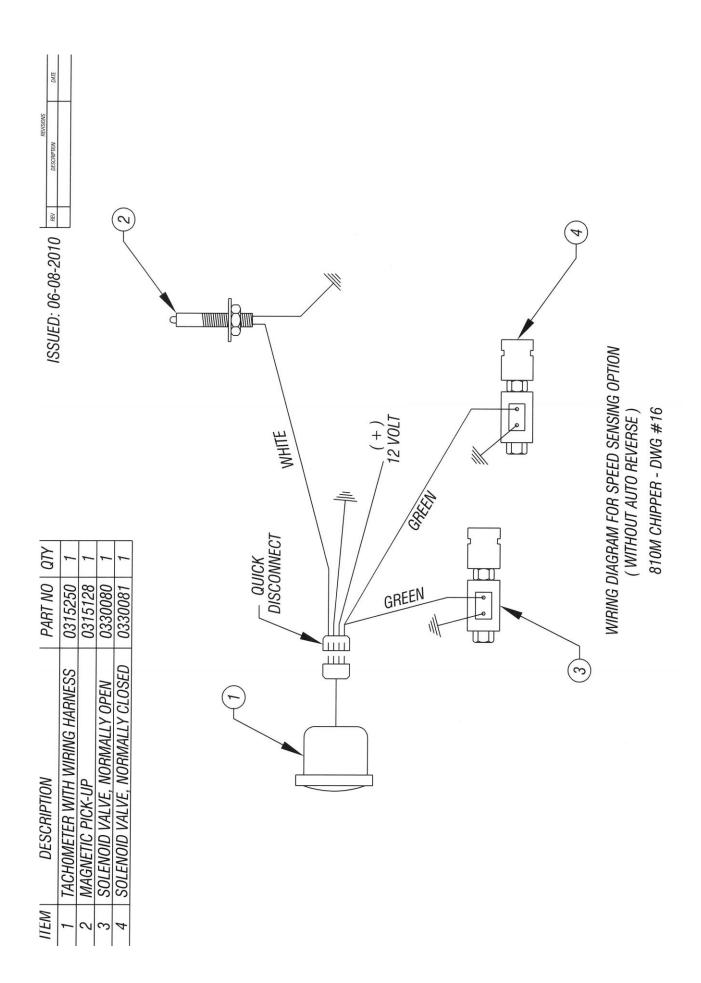
BED KNIFE ADJUSTMENT 810M CHIPPER ASSY - DWG #27







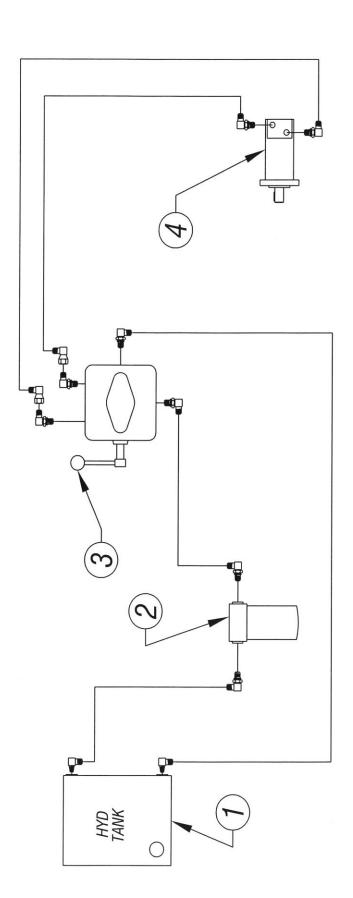




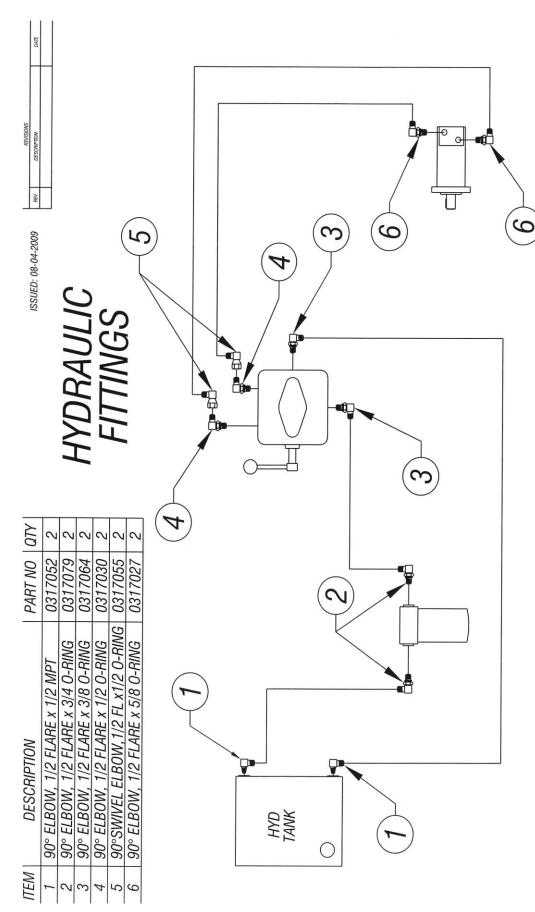
$\alpha \gamma$	1	1	1	1
PART NO QTY	0252012	0318022	0330021	0330142
DESCRIPTION	TANK, HYDRAULIC OIL	FILTER & HOUSING	PUMP, HYDRAULIC	DRIVE MOTOR, HYDRAULIC
TEM	1	7	က	4

ISSUED: 08-04-2009

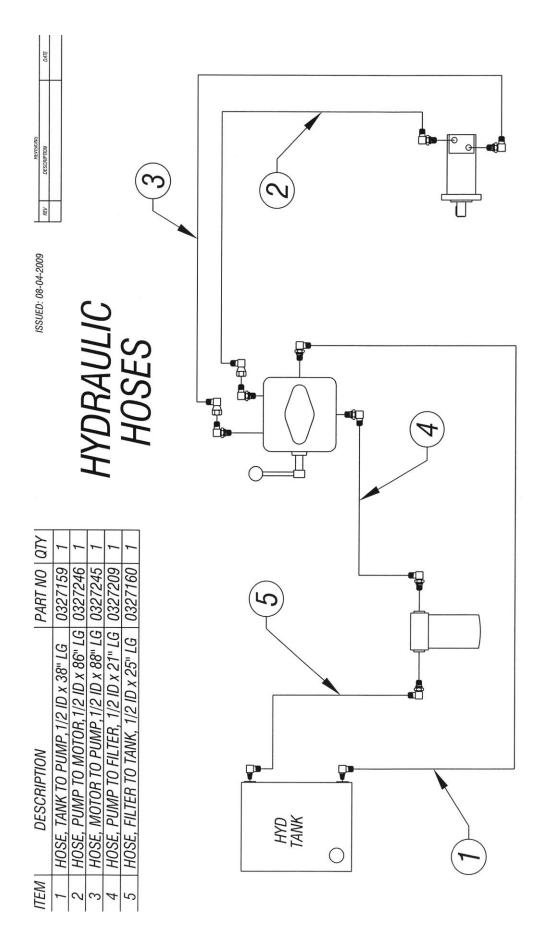
# HYDRAULIC COMPONENTS



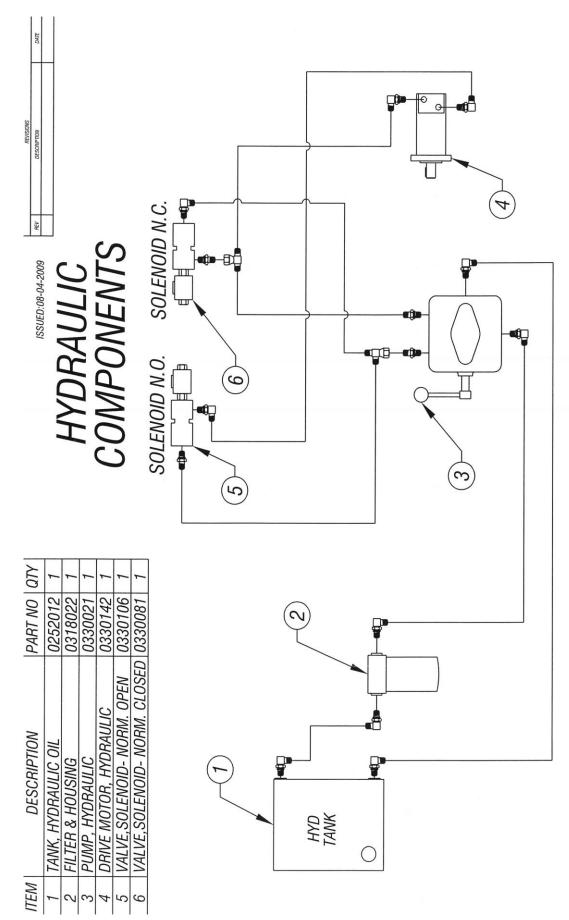
HYDRAULIC HOOK-UP, BASIC CHIPPER 810M CHIPPER - DWG #17



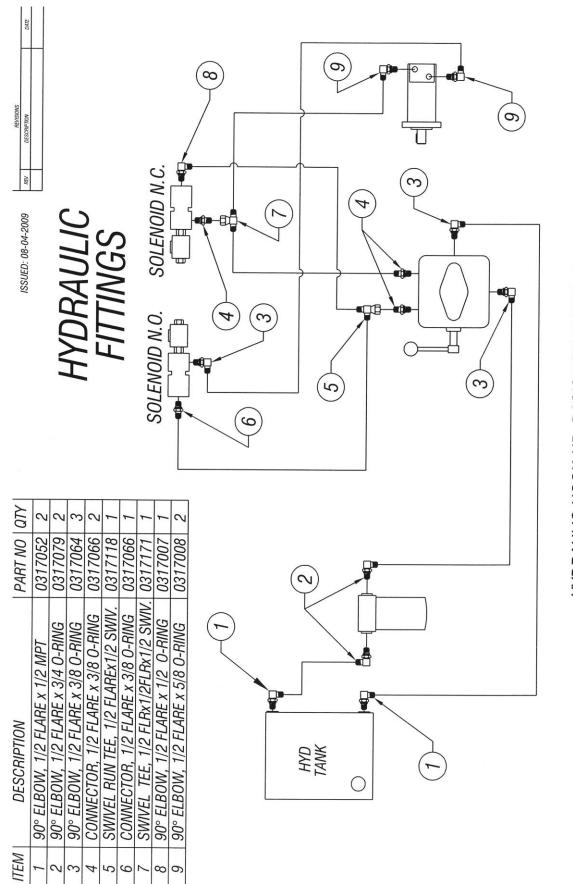
HYDRAULIC HOOK-UP, BASIC CHIPPER 810M CHIPPER - DWG #18



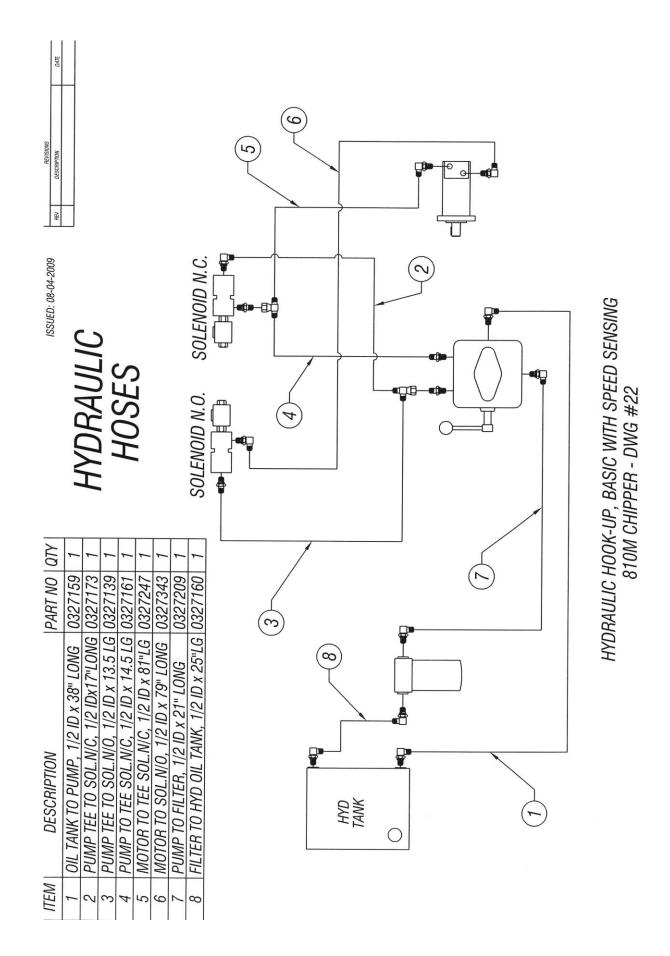
HYDRAULIC HOOK-UP, BASIC CHIPPER 810M CHIPPER - DWG #19

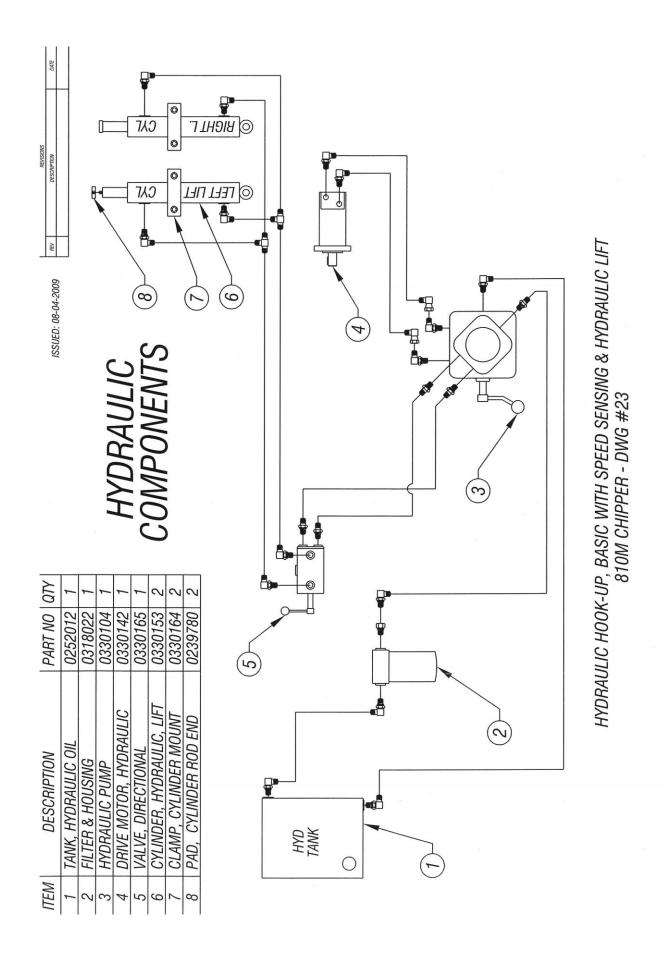


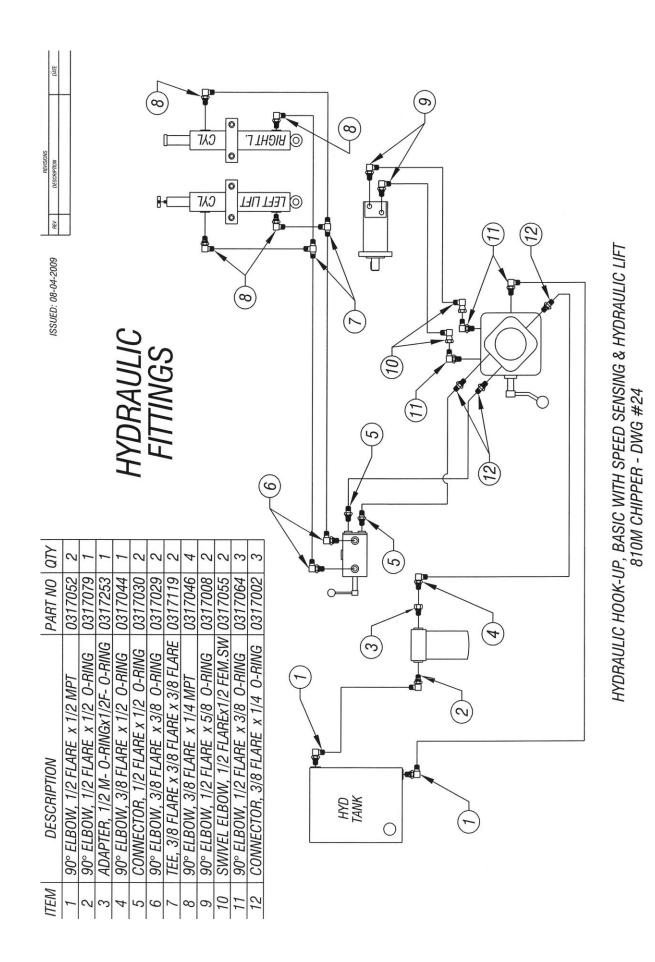
HYDRAULIC HOOK-UP, BASIC WITH SPEED SENSING 810M CHIPPER - DWG #20



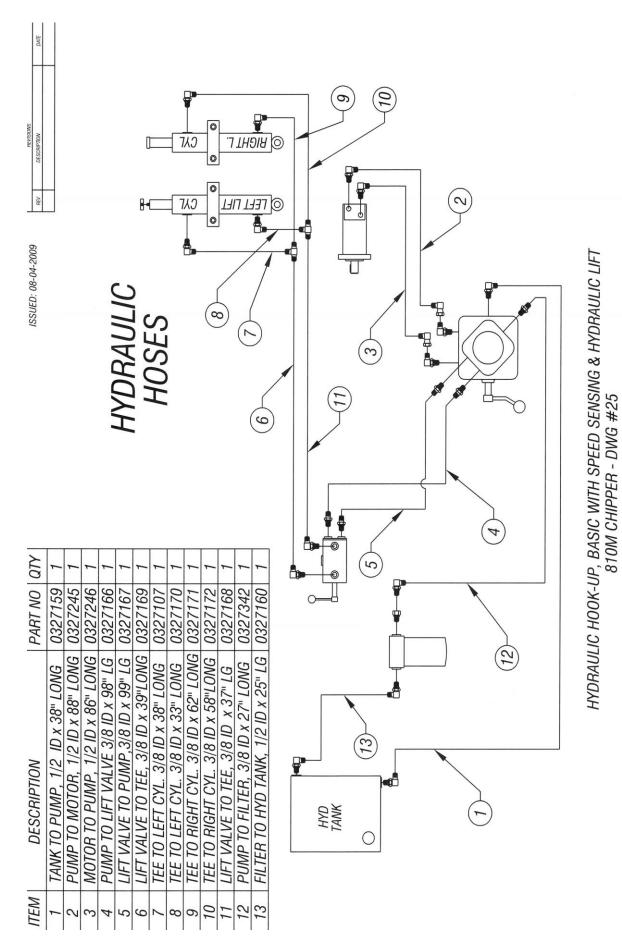
HYDRAULIC HOOK-UP, BASIC WITH SPEED SENSING 810M CHIPPER - DWG #21







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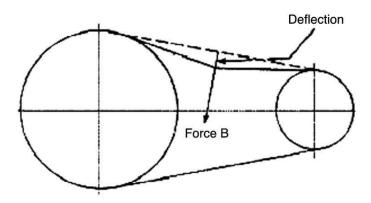
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Below is a quick reference chart for various "Flat Head Cap Screws" and the torque recommendations.

# **VALUES ARE STATED IN FOOT POUNDS**

BOLT SIZE	Thds Per Inch	SAE Grade 5	SAE Grade 8
1/4	20	10	14
·	28		
5/16	18	19	29
	24		
3/8	16	33	47
	24		
7/16	14	54	78
	20		
1/2	13	78	119
	20		
9/16	12	114	169
	18		
5/8	11	154	230
	11		
3/4	10	257	380
	10		
7/8	9	382	600
	9		
1	8	587	700
	8		

#### Drive Belt Tension Measurement by Deflection



Deflection should be 3/8" when 8-12 lbs. push is applied at "B"

#### WARRANTY POLICY

Please remember to complete and return your Warranty Card and Dealer Delivery Report. Warranty Claims will not be considered if the Warranty Card and Dealer Delivery Report have not been returned to Salsco.

Your Salsco Commercial or Turf Equipment product is a commercial type product and is normally manufactured and sold for commercial or industrial use. Salsco will, for the original purchaser, for one (1) year from the date of purchase (90 days if used for rental purposes) repair or replace, free of charge, any SALSCO part or parts found to be defective in material, workmanship or both. Any transportation or shipping charges will be borne by the purchaser. If, during the warranty period stated above, the product does not function properly due to defect, simply contact Salsco and follow the Warranty Procedures included in this manual.

This warranty does not include:

- Incidental or consequential damages and is exclusive of any implied warranties.
- Normal maintenance parts, including, but not limited to hoses, chains, belts, filters, lubricants, etc.
- Parts or components, which are covered under the original manufacturer warranty, including, but not limited to engines, pumps, and motors.

#### WARRANTY PROCEDURE

In order for Salsco to consider your warranty claims in a timely manner you must follow the simple procedures listed below:

#### MACHINE OR PART FAILURE

- Call our service department for helpful instruction on how to correct or repair the problem. Preventive maintenance will also be suggested.
- b) When ordering parts for Warranty issues, you MUST retain possession of the old parts in question until notified with respect to returning the parts to Salsco or other disposition.
- Warranty Claims MUST be filed within 30-days from completion of the work performed. Contact our office for an electronic warranty claim form.
- d) Fill in all information requested on warranty claim form, a copy of which is included in this manual, (date of purchase, company name, address, etc.). List all parts used. Make sure part numbers are correct. You can obtain these from your manual. (include good description of problem; i.e. "leaking from spool" rather than "leaking").
- e) It is our goal to consider and reach a disposition on each Warranty Claim within 30-days from the date that it is received. Therefore it is important that you respond promptly to any request for further information. Claims with no response to inquiries will be closed as "denied for lack of response" 90-days from the date of request.
- f) Email, Fax or Send Warranty Claim form to our Warranty Department. **Warranty on parts most often requires return of the parts that were replaced.** DO NOT DISCARD OLD PARTS UNTIL YOU HAVE RECEIVED A DETERMINATION AS TO WHETHER THESE PARTS MUST BE RETURNED.
- g) Our Warranty Department will contact and instruct you on how to return the Parts to Salsco on an RA #. Returns MUST be made within 30-Days from issuance of RA #. FREIGHT CHARGES ON RETURN OF PARTS IS THE RESPONSIBILITY OF THE CUSTOMER. Normal pre-delivery adjustments are not covered under warranty. Labor Warranties are based on reasonable time allowances as determined by Salsco, Inc. and paid at 75% of posted labor rate. TRAVEL TIME IS NOT REIMBURSED UNDER THE WARRANTY POLICY.
- h) Be sure to put the RA form inside the box that you are shipping back, also be sure to put on the outside of the box "Return of Goods" and the RA #.
- i) Ship returns via a traceable method such as UPS Ground Service. Be sure that the shipment is insured for the appropriate value. If uninsured parts are lost, we cannot issue a credit.

PLEASE NOTE: Warranty forms should be filled out completely.

PREVENTIVE MAINTENANCE IS YOUR BEST INSURANCE AGAINST EQUIPMENT FAILURE. BE SURE TO READ THIS MANUAL, ESPECIALLY THE MAINTENANCE, OPERATING AND CAUTION SECTIONS.

SALSCO, INC., 105 School House Rd.

Cheshire, CT 06410

800-872-5726, 203-271-1682 203-271-2596 (Fax) sales@salsco.com, www.salsco.com

#### WARRANTY CLAIM FORM

SALSCO, INC. 105 School House Rd. Cheshire, CT 06410 Phone:(203) 271-1682,(800) 872-5726

Fax: (203) 271-2596 Email: s.clark@salsco.com Website: www.salsco.com

END OWNER Date Submitted:

EIAD CAMILLY		Duto Gunii						
Name:	Phone:				Work Order #:			
Email:	Fax:				Office Use Only			
Address:					Date Rec'd			
						Cust ID:		
						Salsco WC		
						Salsco RA		
PURCHASED FROM						Date Appro	ved:	
Name:			Phone:			Date Reject		
Email:			Fax:			Processed		
Address:						Dir. Del Rep	ort on File:	YES NO
						Warranty Ca	ard on File:	YES NO
						Part(s) Tota	l:	
Equipment/Warranty Info	rmation (Must I	oe complete)				Labor Total	:	
Purchase Date:	Invoice #			Date Failed	d:	Total Appro	ved:	
Model #: Ser	ial #:			Repair Dat	e:	Approved/F	lejected:	
						Name:		
Hrs Used:	Primary I	Jse:				Reason for	Rejection:	
1110 00001								
Warranty Claim/Work Ord	er#:							
Vidirally Claims								
Was a Salsco Return Auth	orization # issue	d for repairs o	or					
Return of Parts? YES						Suggested Preventative Maint:		
Probable Cause of Failure								
Work Performed/Commer	nts on Repair:							
VVOIK I OHOMIOGI COMMO								
Shop Labor Rate:					Submitted By:			
Total Labor Hours to Repa	air.				Printed Name:			
Parts Required for repair								
Salsco Part #: Description					Qty.	Price Each	Total	Inv #
Saisco Fait #. Description								
		V-110					\$	
							\$	
							\$	
							\$	
						1		

Fill in all information requested on warranty claim form.

# INCOMPLETE FORMS CANNOT BE PROCESSED & WILL BE RETURNED

List all parts used. Make sure part numbers are correct. Any parts that you believe to be defective or any parts that break should be retained for possible inspection until after the warranty has been paid or part has been replaced.

SALESMAN ID #	SALES MANAGER'S NAME

800-872-5726, 203-271-1682 SALSCO, INC. www.salsco.com 203-271-2596 (Fax) sales@salsco.com 105 School House Road Cheshire, CT 06410 **DEALER DELIVERY REPORT** MODEL: SERIAL NO: DEALER: CITY: STATE: ZIP: PURCHASER: ADDRESS: CITY: ST: ZIP: The undersigned dealer warrants that the above-described machine was carefully inspected, adjusted and prepared for delivery before The undersigned purchaser certifies that the operation and maintenance of the aboudescribed machine have been explained to him; acknowledges receipt of a copy of delivery to the purchaser; that both the operation and maintenance the Owner's Instruction Manual and Our Warranty Policy printed in said Instruction of the machine were explained to the purchaser; and that a copy of Manual and Caution Notes. I also understand that it is my responsibility to explain the Owner's Instruction Manual were given to the purchaser and his and make Salsco manuals available to new operators. attention called to Our Warranty and any operating instructions DATE: PURCHASER: DATE: SIGN BY: SIGN BY: PHONE: **FAXI** PHONE: E-Mail EMAIL:

MODEL:	SERIAL NO:					
	SALSCO LIMITED W	ARRANTY CA	RD			
DATE PURCHASED:						
PURCHASER:	ADDRESS: CITY	<u>:</u> <u>ST</u>	<u>:</u>	ZIP:		
EMAIL:	PHO	NE:				
DEALER:	STAT	TE: CT				
Will this equipmen	t be used commercially?		Yes		No	Luna
Did Dealer service	his equipment and instruct you in its care a	ind safe operation?	Yes	1	No	
Did you receive an	"Operation & Service Manual" and safety page 1	amphlet?	Yes		No	
	Signed					
			Purch	naser		
NOTICE:	IMPORTANT: THIS CARD MUST BE FACTORY WITHIN 10 DAYS OF PURC BE VOIDED.					

# **SERVICE RECORD**

If kept properly, this schedule will help track problems in the future.

[					Total Hour
Date	Qty.	Part #	Description of Work Done	Hours Used	to Date
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			***************************************		
			1000-10		
					***************************************
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MODEL #	S/N	
	and the second	DATE PURCHASED: