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Seeding, Sprigging & Mulching Tips Seeding and Sprigging Mulching Finishing Up	5	that your Victor Bowie Hydro-Mulcher®will give you unfaltering service fir many years making you a proud satisfied owner. In order for this to happen we strongly recommend that you read this manual very
Safe and Profitable Operation		thoroughly and see that your Victor Bowie
Taking Care of Your Investment	6 7	Hydro-Mulcher®is used and maintained in a proper way. It has been manufactured using heavy- duty materials throughout. It is designed for ease of use and trouble free operation.
Maintenance/Inspection Schedule	'	
Specifications Chart	9	If you have any further questions regarding your Victor Bowie Hydro-Mulcher®contact your dealer. When contacting your dealer be sure to have
Tank Materials Graph	10	the following information available: 1.) Unit Model Number 2.) Unit Serial Number
Parts and Repairs Agitator/Shredder Packing Gland Assembly	11	3.) Engine Serial Number4.) Engine Spec Number
Idler Arm Assembly Balanced Discharge Gun and Nozzles Plumbing Jackshaft Assemblies Electrical Flush Tank Warranty		Our Company is the leader in the Erosion Control and Landscaping Industry. To serve your needs a score of national and international distributors are there to assist you in the sale and service of Bowie Erosion Control and Landscaping Equipment. We want to be your erosion and landscape partner.
	18	Bowie Industries, Inc.
Troubleshooting		www.
Parts List	19	bowieindustries.com
Addendum Warranty Registration	20	Owen Meyer, President Gary Meyer, VP/Engineer Bob Jones, Sales Manager Jimmy Terry, Parts Manager
Use this manual to familiarize yourself with features of your new equipment. MO Number Location Wisconsin Engine		These numbers are located on your machine in the following places: On upper right rear of tank/Serial Number, Engine plate/MO Number Kubota Engines on Base Frame/MO Number Serial Number Location

Following the operating instructions and doing proper maintenance of your new Bowie Hydro-Mulcher® will give you years of reliable and dependable service. So be sure that you read and carefully follow the instructions given in this manual. This manual provides information for the Bowie Hydro-Mulcher®.

Bowie Industries, Inc. reserves the right to make changes in design and specifications without notice.

READ CAREFULLY ALL THE INSTRUCTIONS

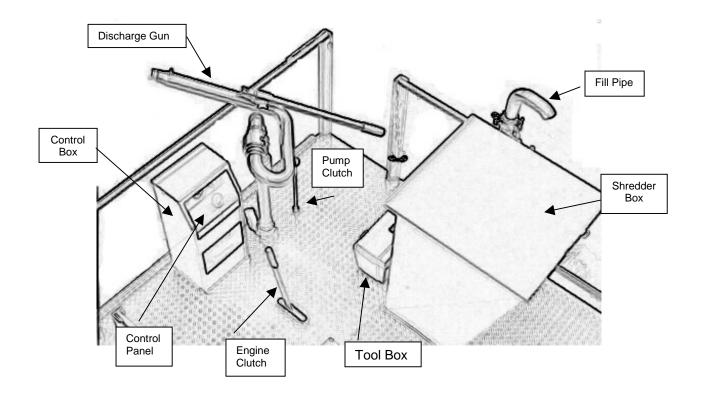
Unpacking

Your new Bowie Hydro-Mulcher® is shipped fully assembled, except that the battery will be disconnected. However make sure that prior to starting, that all packaging materials are removed from the tank and engine areas.

Getting Started

Perform the following operations:

- 1.) Read Operation Manual
- 2.) Check engine oil level
- 3.) Fill fuel tank
- 4.) Install and connect battery
- 5.) Trailer Models tighten wheel lug nuts



Make sure that the tank and engine compartments are clear of foreign objects, such as parts packages or boxes which may have been stored during shipment prior to starting.

Before any loading of any materials into tank be sure that it is clean and free of contaminates

⇒Quick Step 1 Starting Engine

When starting always be sure that the <u>engine clutch</u> and the <u>pump clutch</u> are *disengaged* Engine cranks, there is fuel but doesn't start...oops, forgot to check the kill switch!

WISCONSIN ENGINES

- 1) When engine is cold, pull choke and throttle out approximately one inch
- 2) Turn ignition on and actuate starter switch
- 3) As engine warms or if engine is running rough close choke and adjust throttle

KUBOTA ENGINES

1) See Kubota engine manual

⇒Quick Step 2 Loading Procedure and Agitation

Prepare the Slurry

1.) fill the tank 1/4 full with water



Start the Agitators by engaging the engine clutch.

2.) add mulch (a minimum of one block or bag)(wood cellulose fiber or paper based mulch mixing to suspend other materials.)

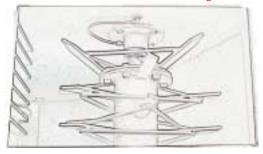
3.) add grass seeds and fertilizer while adding more water.

All ingredients should be in tank by the time the water level is approximately 3/4 of tank capacity.

If you still need to add mulch, seed or fertilizer at this point <u>stop water</u> until all ingredients are in the tank mixing. Then continue to fill with water.

If sprigging, <u>add sprigs after</u> the tank is at least 3/4 full. Mix thoroughly until all the ingredients are homogeneous.

WARNING: keep hand, feet, and limbs free and clear of agitators and from inside of tank



⇒Quick Step 3 Pumping

When thoroughly mixed -with nozzle and hoses attached - engage the pump clutch to activate pump to start your seeding or sprigging. Raise or lower engine speed to control volume of spraying

Seeding-Sprigging-Mulching Tips

⇒ Seeding-Spriging

When seeding it is very important that you start with a clean tank, thus preventing contamination of the type and quality of seeds being used. Load materials through the shredder access lid, being careful that no paper, plastic packaging materials or other foreign matter enters the tank. These foreign materials can cause pump and spraying blockage or other application problems. <u>THEY MUST BE REMOVED BEFORE THE PUMP</u> <u>CAN BE OPERATED.</u> Load with the materials to the ratios specified. If the slurry is to be transported, the engine may either be at an idle or shut off, providing the tank gate valve is in the 'closed' position. Not all seed is alike. Erosion control applications often call for exotic mixes and temperamental varieties

⇔ Mulch

Mulch is an important element in the germination of seeds and erosion control. Mulch controls the loss of soil moisture and provides an insulation. At the same time mulch prevents the soil and seeds from being washed or blown away. This property can be enhanced with the use of a tackifier, which is basically an organic glue.

Machine Size	Load Rate lbs.	1500 lbs./acre	1800 lbs./acre	2000 lbs./acre
800 Victor				
Wood Fiber Mulch	400	11616	9680	8712
Paper Fiber Mulch	500	14520	12100	10890
1100 Victor				
Wood Fiber Mulch	550	16133	13200	12100
Paper Fiber Mulch	650	18939	15557	14052

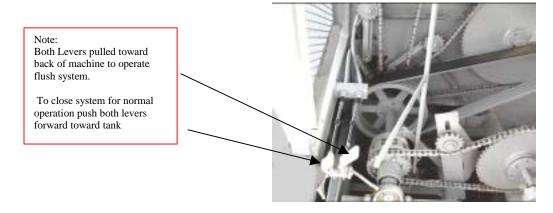
When using extension hoses with pressure control remote valves. A lubricant or slickifier, should be added to the slurry to aid in the flow of materials. In addition for every 50 feet of hose these loading rates should be reduced by 5% because of hose friction.

The rate of application varies according to the soil conditions, job specifications, and the type of delivery (i.e. deck or hose application, surface or sub-surface application).

As a rule of thumb seeding can be simultaneously mulched with wood fiber at the rate of 1,000# per acre. Grass seeding results are not directly proportional to amounts of wood fiber used in rates greater than 2,000# per acre, except for Hydro-Sprigging. Upon the emptying of the tank disengage clutches, idle engine, then cut off power.

⇒ FINISHING UP AT THE END OF DAY OR JOB

To insure long life of the equipment and costly down time always clean your equipment inside and out. Flush the tank, pump, hose and nozzles with water. Remember that fertilizers are corrosive. If you have the Fluch Tank Option this option provides clean water to the pump and discharge hose bypassing the tank slurry. The flush tank provides a convenient means of cleaning the pump and hoses without completely flushing the main storage tank. The clean water supply and controls are shown in <u>Flush Tank Option Plumbing</u>

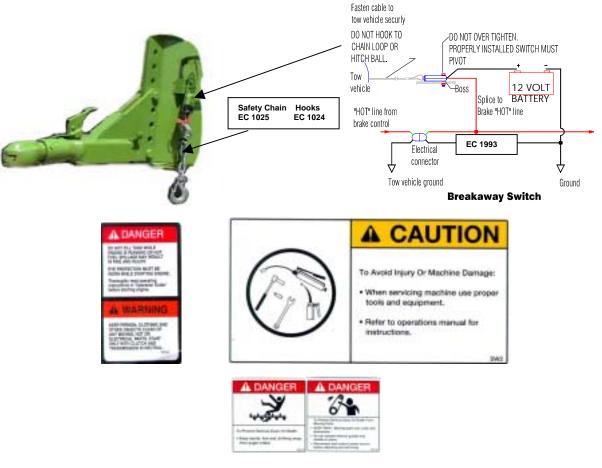


Make your Jobs Safe and Profitable

Avoid down and lost time by working safely. Be sure to follow safety tips and warning labels that are included with your Hydro-Mulcher[®].

- 1. Wear safety glasses.
- 2. Remove or secure all objects on top of tank before starting engine.
- 3. Remove any foreign objects from tank prior to starting engine or pump.
- 4. Do not remove or operate without safety guards in place.
- 5. Prior to servicing tank, agitator(s), lubrication, or making equipment adjustments-Turn the Engine Off and Disconnect Battery.
- 6. Operator should be the only one on the tank floor during operations.
- 7. When Hydro-Mulcher[®] is moving avoid sudden starts and stops.
- 8. Avoid obstacles while there are persons on the Hydro-Mulcher®
- 9. Never direct discharge at people, buildings, power lines or equipment.
- 10. Trailer or Gooseneck Models always check tires and wheel lug nuts.
- 11. When Trailer Towing read Trailer and Towing Guide, part number 025800.
- 12. Always secure close coupler on ball.
- 13. Always connect safety chain to towing vehicle.
- 14. Always secure hitch pin and retainer.
- 15. Always properly secure trailer breakaway switch
- 16. Always make sure that safety lights are in proper working order.
- 17. Maximum speed when empty is 55 mph. Reduce speed when loaded
- 17. Each Bulldog Couplertm comes with a "hb" ball and should be used only with that ball. Use only

"hb" ball with the *Bulldog Coupler*tm .*HammerBlow*TM Ball Sizes: 1B: 1-7/8" 2C: 2" 4B: 2-5/16" #5: 2-1/4" #6: 3"



Typical of Warning, Danger and Caution Labels found on Hydro-Mulcher®

Taking Care of Your Invstment in the Bowie Hydro-Mulcher[®]

Your Hydro-Mulcher is the best on the market. Now it's your turn to keep it that way by giving it the proper care and maintenance.

We have included in this manual this maintenance schedule to assist you.

	Sc	nce/Inspection hedule	Daily	100 HRS OR Monthly	300 HRS OR Semi- Annual
Controls	Belt and Chain	Tension Damage	\boxtimes	X	\boxtimes
	Cable Linkage	check adjust	X	X	X
Engine (as specified in engine mfg. Manual *)	Air Filter/Cleaner	Check Clean (gasoline) Change (diesel)	X	X X	
	Battery and Connection Engine Coolant	Check	\boxtimes		
	Engine Oil	Change Check Change	X		
	Fuel Check	Change	X		
	Fuel Filter	Drain water change	X	X	
Other	Chassis	(inspect)			X
	Breakaway, Trailer	(inspect)	X	X	
	Grease All Fittings		X		
	Hitch, Trailer	(inspect)	X		
	Lights, Trailer	(inspect)	X		
	Tank inspect (clean/free of foreign objects) deterioration/damage	\boxtimes	X	
	Safety Chains	(inspect)	\mathbf{X}		
	Tires	Inflation Damage	X X	X X	
	Wheel Bearings	Repack			X
	Wheel Lugs Torque	(inspect)	X		

* The manufacturer provides these manuals. The specifications and instructions in these manuals are to be followed for the specific parts. A failure to do so could result in voiding the manufacturers warranty

Other Items to Watch Closely:

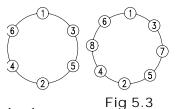
- **Cleaning-** It is very important to keep the unit clean inside and out. Flushing the pump, hoses, and nozzles with clean water. Remember fertilizers are corrosive. Frequently clean air cleaner and change engine oil.
- **Lubrication-** The grease fittings are easily found and should be greased with an all-purpose waterproof grease on a daily basis. If unit has been idle for a period of time be sure to grease prior to use.

• **Tires & Wheels-** It is extremely important to apply and maintain proper wheel mounting torque on your trailer axle. Torque is a measure of the amount of tightening applied to a nut or bolt and is expressed as length times force. A force if 90 pounds applied at the end or a wrench one foot long will yield 90 lb.-ft of torque. Torque wrenches are the best method to assure that the proper amount of torque is being applied to the fastener.

Note: wheel nuts or bolts must be applied and maintained at the proper torque levels to prevent loose wheels, broken studs, and possible dangerous separation of wheels form you axle.

Be sure to use only the fasteners matched to the cone angle of your wheel (usually

60° or 90°). The *proper procedure* for attaching your wheels is as follows: Start all bolts or nuts by hand to prevent cross threading. Tighten bolts or nuts in the sequence illustrated (Fig. 5.3). Tightening the fasteners should be done in stages. Follow the recommended sequence:
1) Tighten all fasteners to 20-25 lb.-ft
2) Then to 50-60 lb.-ft, finally to 85-95 lb.-ft



Wheel nut/bolts should be torqued before first 0n road use and after each wheel removal. Check and re-torque after the first 25 miles and again at 75 miles. Check periodically thereafter.

Tires

Before mounting tires onto wheels make certain that the rim size and contour is approved for the tire as shown in the *Tire and Rim Association Yearbook* or the tire manufactures catalog. Also make sure that the tire will carry the rate load.

• Winterization- Clean entire machine before storage. Clean inside of tank and drain.

Centrifugal Pumps: remove drain plug in bottom of pump

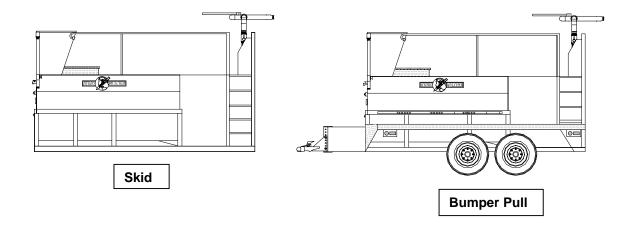
Bowie Gear Pumps: grease each fitting with 15 pumps of grease. Turn pump slowly a few revolutions All ball and gate valves open halfway.

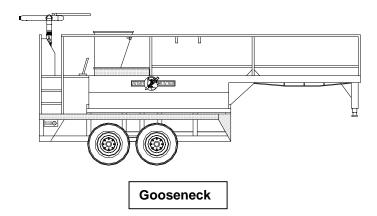
Add *Sta-Bil* fuel stabilizer to fuel tank (prevents fuel deterioration, makes starting easier). Run engine for 15 minutes.

Water cooled engines be sure radiator has proper anti-freeze.

Remove and store battery indoors.

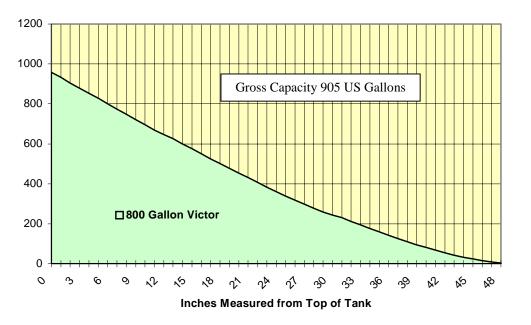
Spray WD-40 on *Formsprag* Clutches. Grease all fittings, spray *Chemsearch Lubrease* of equivalent (which penetrates and protects from corrosion) on all roller



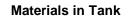


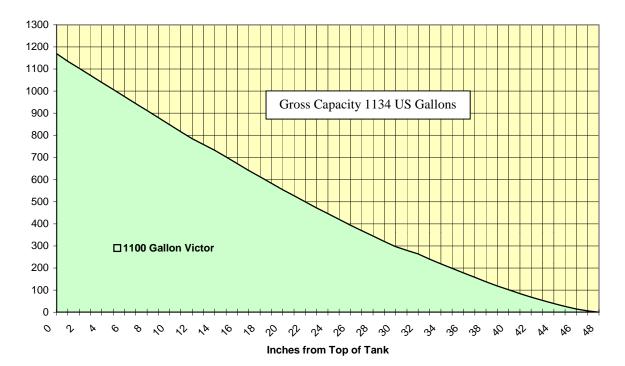
		800 Gallon Victor				1100 Gallon Victor				
		Kubota Engine Centrifugal Pump	Kubota Engine Bowie Pump	Wisconsin Engine Centrifugal Pump	Wisconsin Engine Bowie Pump	Kubota Engine Centrifugal Pump	Kubota Engine Bowie Pump	Wisconsin Engine Centrifugal Pump	Wisconsin Engine Bowie Pump	
Skid	Ī			-	-	-		-	-	
	Width	6'-0"	6'-0"	6'-0"	6'-0''	6'-0"	6'-0"	6'-0"	6'-0''	
		183cm	183cm	183cm	183cm	183cm	183cm	183cm	183cm	
	Length	11'-3"	11'-10"	10'-4"	10'-4"	12'-9"	13'-4"	11'-10"	11'-10"	
	_	353cm	360cm	315cm	315cm	389cm	406cm	360cm	360cm	
	Height	7'-4"	7'-4"	7'-4"	7'-4"	7'-4"	7'-4''	7'-4"	7'-4"	
	· ·	224cm	224cm	224cm	224cm	224cm	224cm	224cm	224cm	
	Weight									
Bumper Pu										
	Width	7'-4"	7'-4"	7'-4"	7'-4"	7'-4"	7'-4"	7'-4"	7'-4"	
		224cm	224cm	224cm	224cm	224cm	224cm	224cm	224cm	
	Length	16'-4"	17'-1"	14'-6"	14'-6"	17'-10"	18'11"	16'-0"	16'-0"	
		498cm	521cm	442cm	442cm	544cm	577cm	488cm	488cm	
	Height	8'-8"	8'-8"	8'-8"	8'-8"	8'-8"	8'-8"	8'-8"	8'-8"	
		264cm	264cm	264cm	264cm	264cm	264cm	264cm	264cm	
	Weight									
Gooseneck	Pull									
	Width	7'-4	7'-4"	7'-4"	7'-4"	7'-4"	7'-4"	7'-4"	7'-4"	
		224cm	224cm	224cm	224cm	224cm	224cm	224cm	224cm	
	Length	19'-3"	19'-10"	18'-4"	18'-4"	20'-9"	21'-4"	19'-10"	19'-10"	
	÷	587cm	579cm	559cm	559cm	633cm	650cm	579cm	579cm	
	Height	8'-8"	8'-8"	8'-8"	8'-8"	8'-8"	8'-8"	8'-8''	8'-8"	
	-	264cm	264cm	264cm	264cm	264cm	264cm	264cm	264cm	
	Weight									

Materials Graphs:

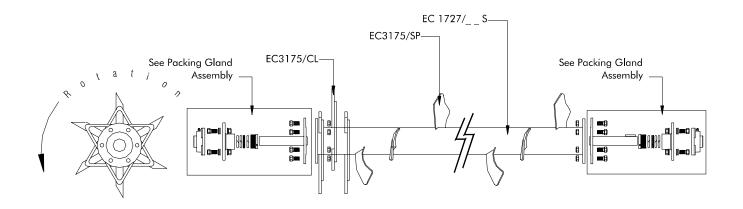


Materials in Tank

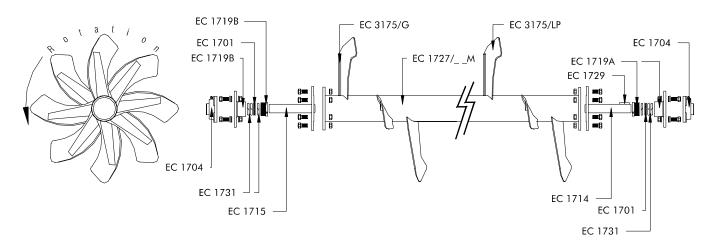


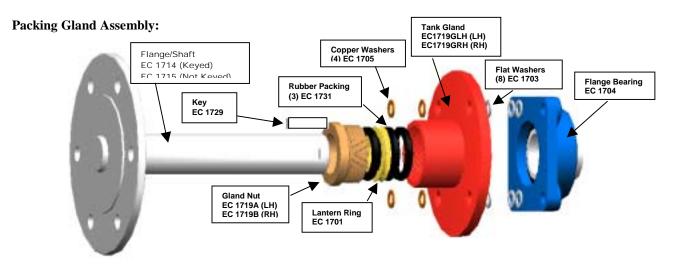


Shredder/Agitator:

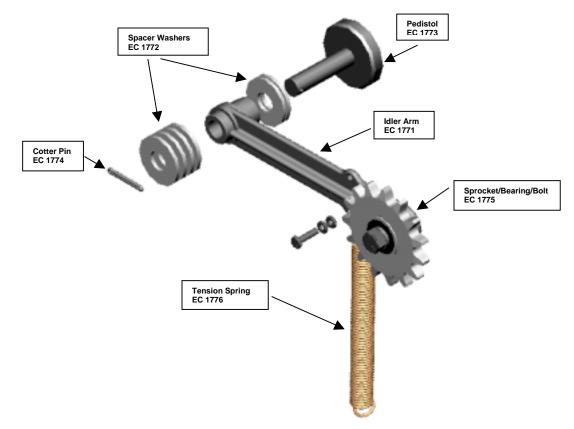


Agitator:

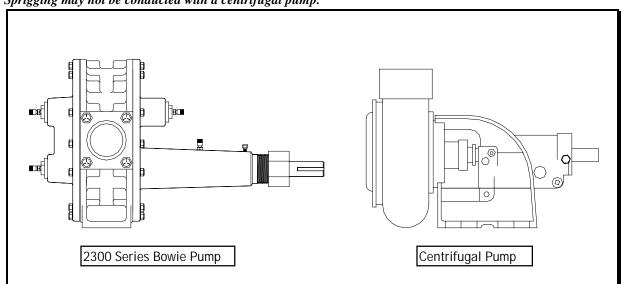




Idler Arm Assembly:



Pump and Discharge



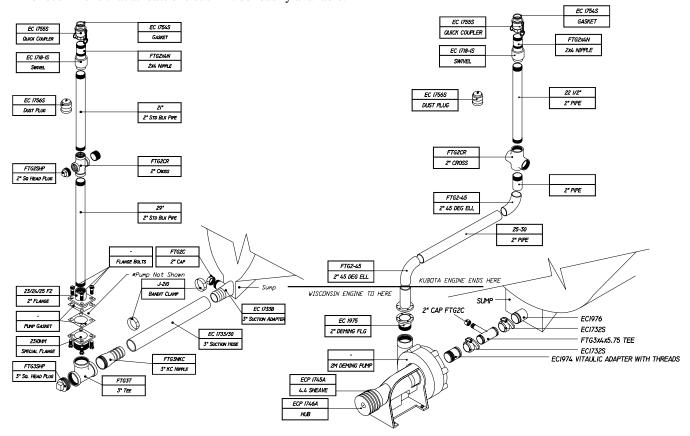
Sprigging may not be conducted with a centrifugal pump.

9" Rect. Nozzle EC 1740A Fire Nozzle EC 1740 V-Jet Nozzle EC 1749 Pressure Balance Gun EC 1730-2 Fire Nozzle EC 1739 É O V-Jet Nozzle EC 1735 Quick Coupling EC 1753S Gasket EC 1754S Dust Plug EC 1756S *Optional Quick Coupler EC 1755S

The discharge gun is 2" mounted with a quick coupling to facilitate removal. Nozzles available are: sprigging nozzle, two different fire nozzles, two different V-jet nozzles and a fan nozzle

The swivel assembly is located on the discharge pipe. Occasionally it is necessary to replace the o'ring seals and balls.

A repair kit is available containing needed parts (Part # EC1806). We recommend that at least one such kit be readily available.

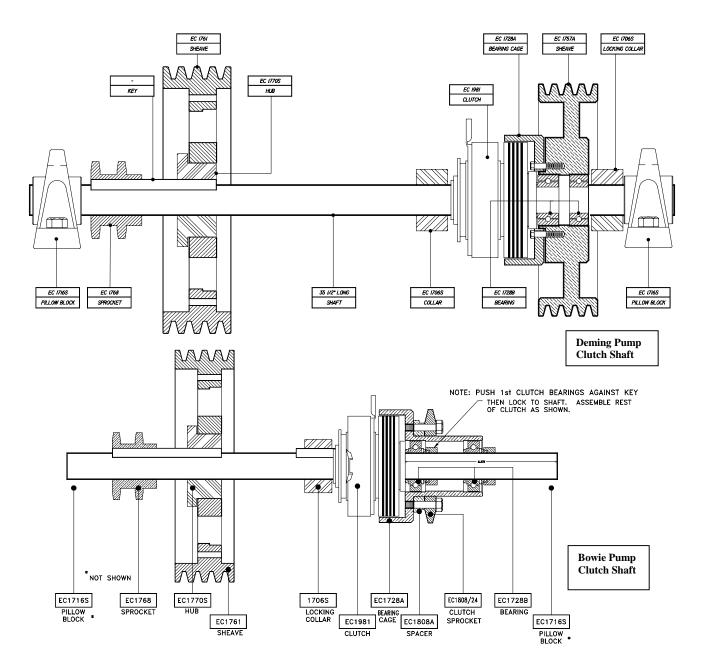


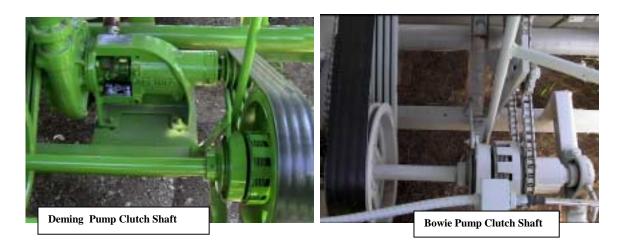
Drive Assemblies-Belts and Chains

Jackshaft Assembly

It is necessary for each pillow block bearing properly lubricated. However occasionally they need to be replaced (Part # EC1716S) therefore we recommend that a spare be on hand.

Should the sheave become loose on the shaft replace the hub and key set with genuine Bowie parts. Note: key to fit snugly in the sheave.





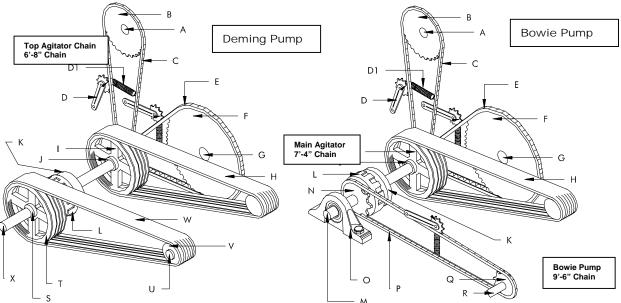
Chain Drives:

Chain drives should be kept to the proper tension. If chain becomes loose then remove a half link or full link as needed to keep the proper tension.

Engine Belt:

Units with <u>Bowie Pumps</u>- Loosen engine base bolts. Use tension pull bolts on right side to make adjustments. When adjusted re-tighten engine base bolts.

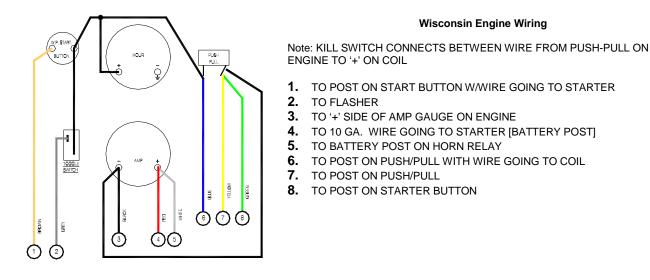
Units with <u>Centrifugal Pumps</u> Adjustments can be made with the engine tension pull bolts as with units using Bowie pumps. Also retensioning can be made by using tension pull bolts on the jack shaft.

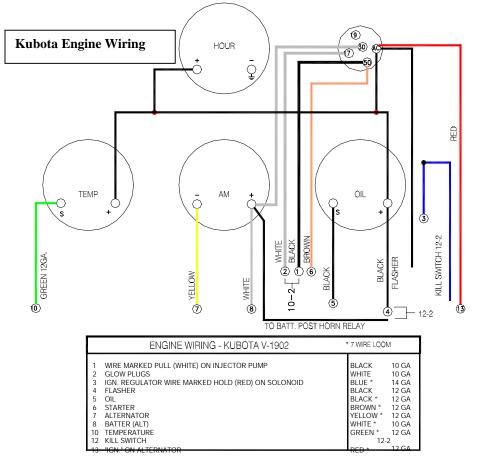


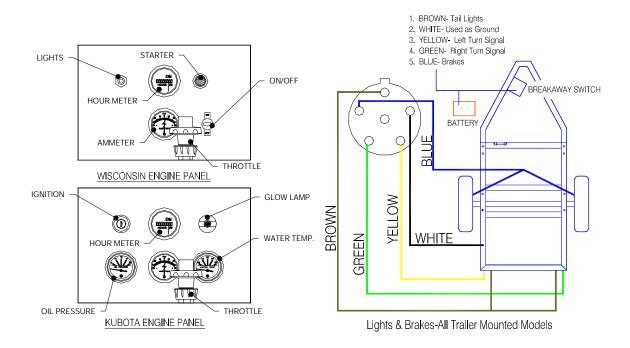
					141			
	Part No.	Description		Part No.	Description		Part No.	Description
•								
Α	EC 1721	Hub, SF 1 15/16"	1	EC 1761	Sheave	Q	EC1815/54	Sprocket, Pump
В	EC 1723	Sprocket, Shredder	J	EC 1770	Hub, SF 1 7/16"	R	EC 1816	Hub
С	EC 1741/7	Chain, Roller Shredder	Κ	EC 1981	Clutch	S		
D	EC 1775	Idler Arm Sprocket w/bearing & bolt		EC 1761	Sheave	Т	EC 1757A	Sheave
D1	EC 1776	Spring, Tension	L	EC 1728A	Bearing Cage	U	ECP 1745A	
Е	EC 1741/8	Chain Roller Main Agitator	Μ	EC 1710	Jackshaft	V	ECP 1746A	
F	EC 1725	Sprocket, Main Agitator	Ν	EC 1808/24	Sprocket, Clutch	W	EC 1858/62	
G	EC 1721	Hub, SF 1 15/16"	0	EC1716S	Bearing, Pillow Block	Х		
Н	EC 1743	Belt, Engine Drive	Р	EC1708/10	Chain, Roller Pump			

Electrical System

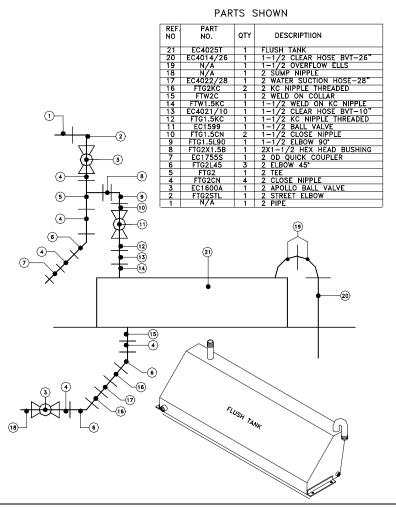
- Consists of basically two different systems:
- 1.) Engine ignition and engine gauges. Wisconsin engine gauge panel wiring
- 2.) Kubota engine panel wiring
- 3.) Engine control panel gauges
- **4.**) Trailer running lights







Flush Tank Option:



Options

These are standard options that are available [\boxtimes].

Option	800 Model	1100 Model
Wisconsin W-4	X	X
Kubota 1902 diesel, water cooled	X	X
Bowie Pump	X	X
Centrifugal Pump	X	X
Skid	X	X
Bumper pull	X	X
Gooseneck		X
Hose Reel manual	X	X
electric power	X	\mathbf{X}
Flush System	X	X

limited Warranty

Contact your **Bowie Hydro-Mulcher**® sales representative for more information.

To effect warranty the warranty registration card <u>must be filled out and returned</u> **Bowie** Industries, Inc. within thirty days of purchase. No warranty is in effect without this card being returned to **Bowie** Industries, Inc.

New equipment warranty applies to original purchasers for a period of twelve months from date of purchase. Such equipment is warranted free from defects in materials and workmanship. Warranty does not extend to any equipment that had been damaged in accident or shipment, misuse, abuse, or modified by anyone other than **Bowie** Industries, Inc.

Your sole remedies under this warranty is limited to repairing or replacement of any part that is returned to **Bowie** Industries, Inc. or to a **Bowie** Industries, Inc. authorized dealer, freight prepaid. Returns for warranty needs to be accompanied with a return authorization number. Such repair or replacement to be made provided that defect is covered by warranty as determined by **Bowie** Industries, Inc.

Warranty exclusions: (1) normal maintenance and/or adjustments, (2) altered equipment, (3) engines, engine clutches, batteries, tires or other accessories that are subject to respective manufacturers warranties.

Except as expressly set forth above, no other warranties, either expressed or implied, are made with respect said equipment. **Bowie** Industries, Inc. expressly disclaims all warranties not stated herein. This warranty gives you specific legal rights and you may also have other rights that vary from state to state.

Bowie Industries, Inc. reserves the right to make changes in design and specifications without notice.

	TROUBLE	PROBABLE CAUSE	CHECKOUT PROCEDURE REMEDIAL ACTION				
ENGINE	1. Engine will not crank	low battery	check battery-charge or replace				
	-	faulty ignition switch	check and replace if needed				
		faulty starter switch	check and replace if needed				
		5					
		faulty starter solenoid	check and replace if needed				
	2. Engine Cranks but won't	faulty starter motor improper throttle or choke	check and replace if needed adjust settings per engine starting instructions				
	start	settings					
		no fuel to engine	check fuel supply-clogged fuel filter or line, flush or replace				
			check for fouled spark plugs-clean, reset gap or replace				
		no spark to engine	check distributor wires to plugs-repair or replace faulty wires				
	3. Engine runs rough or cuts	fuel supply	clogged filter or lines-replace or flush as needed				
	out intermittently after warm up	dirty or faulty carburetor	clean and/or adjust or replace				
	up	dirty air cleaner	clean or replace element				
		faulty spark plug or plug wires	check plugs- clean, reset gap or replace; faulty wires				
		intermittent short in ignition	replace				
		wiring	perform continuity check of wiring-repair or replace defects				
		faulty engine valve or cylinder ring	see manufacturers engine manual				
	4. Battery will not maintain a	dead cell or short across cells	check and replace if needed				
	charge	faulty alternator or voltage regulator	check and replace if needed				
NOZZLE	1. Mulch lacking volume or	Tank contents low	fill tank				
/GUN	Velocity (range)	Obstruction in plumbing	check plumbing from nozzle to tank				
ASSEMBLY		Slipping engine drive belt	adjust belt tension				
		Slipping pump clutch	adjust clutch				
		Sheared pump drive key	replace key				
	2. Stiff assembly rotation	dragging swivel assembly	lubricate bearings				
	, and the second s	damaged swivel bearings	install swivel repair kit				
AGITATOR	1. Agitator and shredder will	control lever linkage	adjust linkage				
OR SHREDDER	not start	broken chain	replace damaged or broken component				
SHREDDER		sheared sprocket drive key	replace drive key				
	2. Slow rotation	control lever linkage	adjust linkage				
		low engine speed	Increase engine rpm				
		clutch slipping	install clutch repair kit				
	3. Noisy	foreign object in tank	Stop engine, perform lock-out, inspect tank				
		loose chain	faulty idler sprocket bearing or spring stretched chain; remove one half or full link				
		loose support bearings	repair or replace				
		loose agitator or shredder drive key	replace				
TANK	1. Leaking around agitator or	dry or loose packing	lubricate packing daily with water pump grease				
ASSEMBLY	shredder shaft bearings	-	if leaks persist after lubrication then tighten packing				
			glands				
	2. Slurry not homogeneous	not enough water	see section 3.3				
			add water until tank is full, continue agitation until slurry is homogeneous				
CLOGGED	1. No material spraying	nozzle	remove and flush				
OR		valving for slurry	remove debris and flush				
BLOCKED LINES		sump inside tank	remove debris and flush				
LINES		-					
		pump inlet	remove debris and flush				

Parts Stock Numbers

	DESCRIPTION	QTY	PART NO.		DESCRIPTION	QTY	PART NO.
AGITATOR	Hub, Sprocket 1-15/16 SF	1	EC 1721	ENGINE	Hub, Sheave 1-3/16" SD Hub	1	EC 1810S
	Sprocket, Main Agitator 60SF80	1	EC 1725		Sheave, Engine 4B4.2	1	EC 1811
	Chain, Roller 7' Upper Agitator	1	EC 1741/7	IDLER	Idler Arm	2	EC 1771
	Chain, Roller 8' Lower Agitator	1	EC 1741/8		Idler Bracket [Pedestal]	2	EC 1773
BELTS	Belts, Engine Drive 4B80	1	EC 1743		Sprocket/Bearing/Bolt	2	EC 1775
CLUTCH	Locking Collar	1	EC 1706S		Spring, Tension	2	EC 1776
	Bearing , P Block SKFSY107	2	EC 1716S	MISC	Spanner Wrench	1	EC 1017
	Bearing Cage	1	EC 1728A		1/4 Clevis Hook	2	EC 1024
	Bearing, Fafnir 1107KRR	2	EC 1728B		Chain, 1/4 High Test Safety	6'	EC 1025
	Sheave, Engine Drive 4B12.4	1	EC 1761		Bracket, License Tag	1	EC 1026
	Sprocket DS60B14 1-7/16 Bore	2	EC 1768		2-5/16 Ball Hitch Assembly	1	EC 1830
	Hub, Sheave SF 1-7/16"	1	EC 1770		Pintle Hitch (Optional)	1	EC 1830P
	Spacer	1	EC 1808A		Grip, Small Handle	2	EC 1995
	Sprocket, Clutch 60A24	1	EC 1808/24	PACKING GLAND	Ring, Lantern	4	EC 1701
	Clutch, Formsprague	1	EC 1981		Bearing, Flange SKF FY115	2	EC 1704
DISCHARGE	Nozzle Set (Set of four)	1	EC 1016		Washer, 1/2 Copper	16	EC 1705
	Swivel	1	EC 1718-1S		Nut, Packing Gland LH	2	EC 1719A
	Gasket	1	EC 1754S		Nut, Packing Gland RH	2	EC 1719B
	Quick Coupler	1	EC 1755S		Packing, Rubber	12	EC 1731
	Dust Plug	1	EC 1756S	PUMP			
ELECTRIC	Battery, Terminal End	2	EC 1007	Bowie Pump			
	Battery, Copper Terminal End	2	EC 1008		Sprocket, Pump 60SF60	1	EC 1815/60
	Battery, Hold Down Bolt	2	EC 1009		Bearing, Pillow Block 1-1/8"	1	EC 1815/PB
	Light, Clearance	2	EC 1835		Chain, Roller 10'	1	EC 1741/10
	Light, Reflector	8	EC 1836	Deming Pump			
	Light, Comb. Stop/Tail	2	EC 1839		Sheave	1	EC 1757A
	Switch, Breakaway Safety	1	EC 1993		Belt	1	EC 1858/62

When ordering parts please have your:

Model # _____

Serial # _____

handy for the parts man to effectively help you. Thank you!

Your Parts Man