D42 Engine

Safety, Operation, Maintenance & Parts Manual

LT40 Series MH LT40 Series DH

rev. E2.01 rev. E2.01

Safety is our #1 concern! Read and understand all safety information and instructions before operating, setting up or maintaining this machine.

February 1998

Form #916

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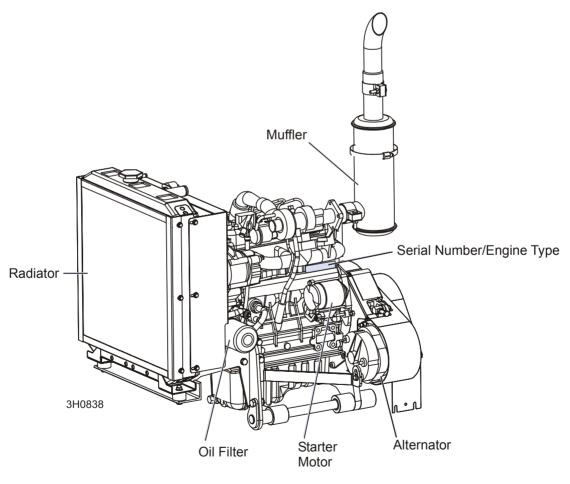
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ABOUT THIS MANUAL

This manual is provided as a supplement to the equipment manufacturer's manuals. This manual provides information specific to the use of this equipment on the Wood-Mizer[®] sawmill. Refer to the sawmill operator's manual and manufacturer's manual before attempting to operate this equipment.

IMPORTANT! Read the sawmill operator's manual and engine manufacturer's manual for instructions and safety precautions before operating this equipment.

The information and instructions given in this manual do not amend or extend the limited warranties for the equipment given at the time of purchase.



ENGINE COMPONENTS

SECTION 1 OPERATION

1.1 Starting The Engine

Control Lights

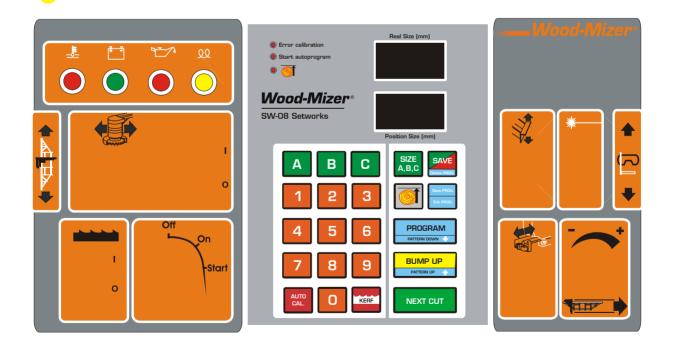
See Figure 1-1. The following indicator lights are located on the sawmill control panel.

Alternator Charge Indicator: Lights up if the alternator is not charging the battery.

Engine Temperature Indicator: Lights up if the engine is overheating. A circuit breaker assembly in the engine harness will shut the engine off if the engine overheats. Turn the key switch off and allow the engine to cool for a period of time before restarting. If the overheating condition persists, stop operating the engine until the condition is corrected. The engine will automatically switch to low idle if an overheating condition occurs.

[™] Oil Indicator: Lights up if the oil pressure is too low.

Glow Plug Indicator: Lights up after the key has been turned to the on (#1) position.



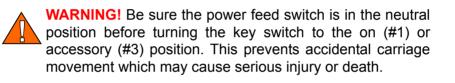


Engine Start

DANGER! Always be sure the blade is disengaged and all persons are out of the path of the blade before starting the engine. Failure to do so will result in serious injury.

DANGER! Operate your engine/machine only in well ventilated areas. The exhaust gases of your engine can cause nausea, delirium and potentially death unless adequate ventilation is present.

DANGER! Never operate an engine with a fuel or oil leak. The leaking fuel or oil could potentially come in contact with hot surfaces and ignite into flames.



WARNING! Do not operate engine without proper and operational spark arrester/muffler. Sparks emitted from the engine exhaust could ignite surrounding materials, causing serious injury or death.



CAUTION! Do not crank starter for more than 7 seconds at one time during starting attempts. Damage to the engine may result.

CAUTION! Let cool engine idle for 2 minutes before applying load to prevent engine damage.

- **1.** See the engine manufacturer's manual for lubricating oil recommendations for specific temperature ranges.
- 2. Use a best quality diesel fuel for below freezing starting.
- **3.** Turn the key switch on the control panel to the on (#1) position.
- 4. Wait until the glow plug indicator goes out.
- **5.** Turn the key switch to the start (#2) position and release.

Engine Shutoff

CAUTION! A minimum 2 minute idle time is recommended to allow the battery charge and the turbo-charger to cool down before the engine is shut off.

Turn the key switch to the off (#0) position.

SECTION 2 MAINTENANCE

Refer to the manufacturer's manual for maintenance intervals and procedures unless otherwise instructed in this manual. Follow the manufacturer's recommendations for dusty conditions.

> **IMPORTANT!** This manual only provides information about additional procedures or procedures to be performed at different time intervals than found in the manufacturer's manuals. Refer to the manufacturer's manual for complete maintenance instructions.

2.1 Safety

Use caution when performing maintenance or service to the engine.

DANGER! Always be aware of and take proper protective measures against rotating shafts, pulleys, fans, etc. Always stay a safe distance from rotating members and make sure that loose clothing or long hair does not engage rotating members resulting in possible injury.

DANGER! Engine components can become very hot during operation. Avoid contact with any part of a hot engine. The exhaust components of your engine are especially hot during and following operation. Contact with hot engine components can cause serious burns. Therefore, never touch or perform service functions on a hot engine. Allow the engine to cool sufficiently before beginning any service function.



WARNING! Remove the blade before performing any engine service. Failure to do so may result in serious injury.

WARNING! Always wear proper and necessary safety equipment when performing service functions. Proper safety equipment includes eye protection, breathing protection, hand protection and foot protection.

0

This symbol identifies the interval (hours of operation) at which each maintenance procedure should be performed. "AR" signifies maintenance procedures which should be performed as required.

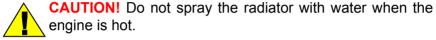


2.2 Cooling System

Clean the radiator fins every 8 hours of operation. Spray the radiator with water from a hose or compressed air to clean sawdust from the radiator fins. Do not use a pressure sprayer.



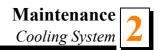
CAUTION! Failure to keep the radiator fins clear of sawdust and/or dirt may cause the engine to overheat resulting in damage to the engine.



CAUTION! Do not open the radiator cap or reservoir cap when the engine is hot.

Every 8 hours of operation check the coolant level on the coolant reservoir. When engine ⁸ is cold the coolant level should be above the LOW level.

For the aluminium radiator use only glycol solution (11. of glycol concentrate for 11. of dis-



tilled water).

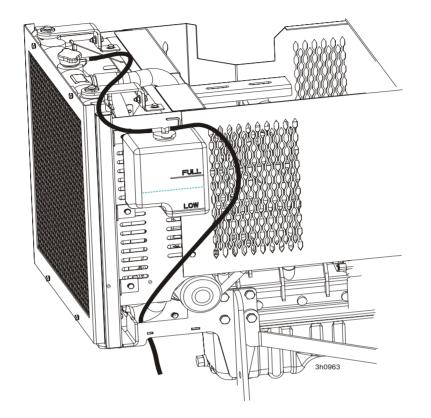


FIG. 2-0



2.3 Fuel Filter

See Figure 2-1. Replace the primary fuel filter cartridge every 1500 hours or one year of operation. After replacing the filter cartridge, loosen the air bleed screw and operate the fuel pump bail until fuel begins to flow from the valve and is free of air bubbles. Tighten the bleed screw. Inspect the water separator bowl periodically and drain the bowl as required by turning the drain cap counterclockwise as viewed from the bottom.

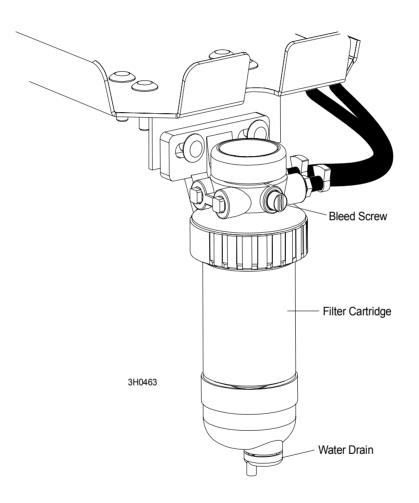


FIG. 2-1

2.4 Battery

Check the battery electrolyte level every 50 hours of operation. See manufacturer's man-⁵⁰ ual for instructions.

DANGER! Batteries expel explosive gases. Keep sparks, flames, burning cigarettes, or other ignition sources away at all times. Always wear safety goggles and a face shield when working near batteries. Failure to do so will cause serious injury.¹

WARNING! Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

^{1.} Battery Council International, copyright 1987



2.5 Alternator Belt

AR The belt tension should be checked after the first 100 hours of operation, when the battery is not charging properly or when the alternator belt is squealing. If the battery continues to not charge properly or the belt continues to squeal after the initial belt adjustment, replace the belt.

- **1.** Release the blade tension and remove the blade from the sawmill if necessary. Turn the key switch to OFF (0) and remove the key.
- 2. Remove the drive belt cover and alternator cover.

See Figure 2-2.

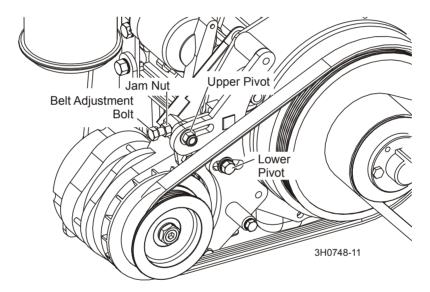


FIG. 2-2

- **3.** Use a belt tension gauge to measure the belt tension. Place the gauge on the belt at the midpoint between the two pulleys. If the belt tension is less than 3/16" with 9 lb. of deflection, tighten the belt as described below.
- 4. Loosen the upper pivot, lower pivot and the adjustment bolt jam nut.
- **5.** Turn the belt tension adjustment bolt clockwise to tighten the belt, counterclockwise to loosen the belt. Adjust the bolt until the proper belt tension is achieved.

CAUTION! Do not overtighten the alternator belt. Damage to the alternator will occur.

 Maintenance

 Radiator Fan Belt Adjustment

6. After the alternator belt has been tensioned, tighten the adjustment bolt jam nut. Tighten the upper and lower pivots and replace the belt covers.

2.6 Radiator Fan Belt Adjustment

- AR engine is overheating or when the fan belt is squealing. If the engine continues overheating or the belt continues to squeal after the initial belt adjustment, replace the belt.
 - **1.** Turn the key switch to OFF (#0) and remove the key.
 - **2.** Remove the radiator covers.
 - 3. Loosen the jam nut (shown below).
 - 4. Tension the fan belt properly by hand.
 - 5. Tighten the jam nut and replace the radiator covers.

See Figure 2-3.



2.7 RPM Adjustments

WARNING! Remove the blade before performing any engine service. Failure to do so may result in serious injury.

Check the RPM with a tachometer after the first 20 hours of operation and every 200 hours thereafter. High-end RPM should be 3200 RPM and low-end RPM should be 1500 RPM.

Before checking the RPM, make sure belt and brake strap tensions are correct (See Sawmill Maintenance). Also check oil, fuel, and coolant levels.

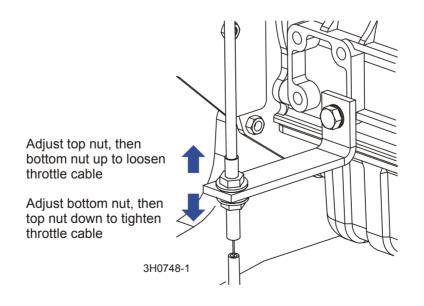
Make sure the throttle cable does not affect the engine RPM when the clutch handle is disengaged. Make sure the cable is not bent or kinked.

 Use the bottom threaded cable mount to adjust the throttle cable. When the clutch handle is disengaged, the throttle cable should be taut but the spring not extended. When the clutch handle is engaged, the throttle spring should extend 1/8" to 1/4". Once the throttle cable is adjusted properly, use the adjustments provided on the engine to adjust the engine RPM (3200[+0, -100] high-end, 1500[±100] idle).



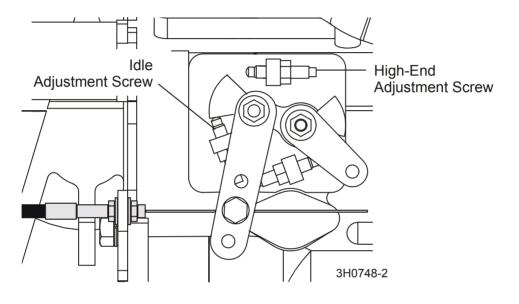
CAUTION! Do not extend the throttle spring over 1/4". Excessive tension may cause the throttle cable to fail prematurely.

See Figure 2-4.



- 2. Start the engine to measure the low-end RPM. Let idle for 10 minutes.
- **3.** With the engine at idle, check the low-end RPM. Adjust to 1500. To decrease speed, loosen the idle adjustment screw. To increase speed, tighten the idle adjustment screw.

See Figure 2-5.



4. Adjust the high-end RPM to 3200. To decrease speed, tighten the high-end adjustment screw. To increase speed, loosen the high-end adjustment screw.

CAUTION! Do not adjust the high-end RPM above 3200. Doing so may cause damage to the engine.

5. After the RPM settings are made, shut the engine off. Tighten the throttle cable by engaging the clutch handle. Check the throttle cable at the upper cable mounting bracket. The cable should be centered in the cable housing. If necessary, loosen the upper bracket mounting bolts and adjust the bracket so the cable housing is centered around the cable. Retighten the upper cable bracket mounting bolts.



See Figure 2-6.

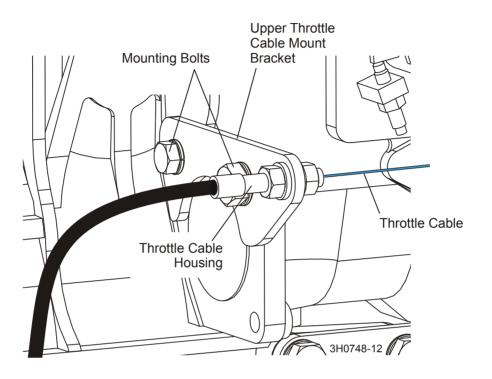


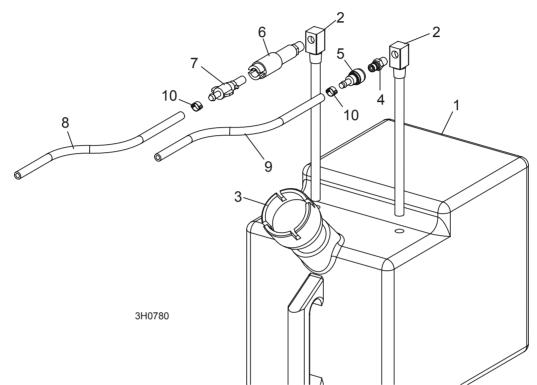
FIG. 2-6

CAUTION! Failure to properly center the throttle cable in the cable housing may result in premature cable wear.



SECTION 3 REPLACEMENT PARTS

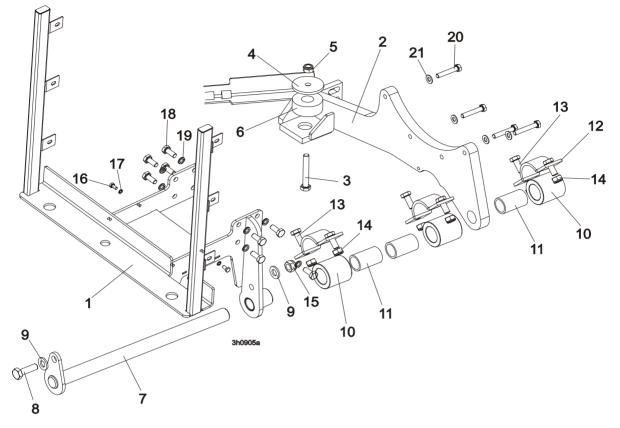
3.1 Fuel Tank



REF	DESCRIPTION (Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	TANK ASSEMBLY, 5 GALLON GREEN DIESEL	A12132	1	
1	Tank, 5 Gallon Green Fuel	P12166	1	٠
2	Pickup, 9" Fuel	P12172	2	
3	Cap, 3/5 Gallon Fuel Tank	P09683	1	
4	Fitting, 1/4" NPT Male Quick Disconnect	015583	1	
5	Fitting, Female Quick Disconnect Barb	015582	1	
6	Fitting, 1/4" NPT Plastic Female Disconnect	P12175	1	
7	Fitting, 1/4" Barb Plastic Male Disconnect	P12176	1	
8	HOSE, 1/4" ID FUEL	P642	7.17 Ft	
9	HOSE, 5/16" ID FUEL	016338	9 Ft.	
10	CLAMP, 7/32 - 1/2 HOSE	P649	6	
	ADDITIVE, DIESEL FUEL 16OZ BOTTLE	004878 ¹	1	

¹ Stanadyne Performance Formula helps eliminate contaminants and water in fuel, prevents gelling in cold weather, and improves lubrication of fuel system parts. 16 oz. bottle treats 60 gallons of diesel fuel.

3.2 Engine Mount Assembly



REF	DESCRIPTION (Indicates Parts Available In Assemblies Only)	PART #	QTY.	
1	MOUNT WELDMENT, FRONT KUBOTA ENGINE	097154-1	1	
2	MOUNT WELDMENT, REAR KUBOTA ENGINE	087945-1	1	
	VIBRATION ABSORBER, CLUTCH	090666-1	1	
3	Bolt, M10X70-8.8 HEX HEAD, ZINC	F81003-20	1	
4	Washer, 3/8" I.D. X 2 1/4" O.D. X 3/16" THICK	S12412-0	1	
5	Nut, M10-8-B Hex Nylon Lock	F81033-1	1	
6	BUSHING, MOTOR MOUNT VIBRATION	P05032	1	
7	PIN WELDMENT, KUBOTA ENGINE MOUNT PIVOT	087955-1	1	
8	BOLT, M12 X 40-8.8 HEX HEAD	F81004-4	1	
9	WASHER, 13 FLAT ZINC	F81056-1	1	
	BUSHING ASSEMBLY, MOTOR MOUNT	016380	3	
10	Bushing, 2" OD x 2"	016378	1	
11	Bearing, 1" x 1 1/4" x 2"	016379	1	
12	CLAMP WELDMENT, MOTOR MOUNT	086200	1	
13	BOLT, M10-1.5X25MM HH GR8.8	F81003-11	1	
14	NUT, M10, NYLON HEX ZINC LOCK	F81033-1	2	
15	NUT, M12-8-B NYLON LOCK	F81034-2	1	

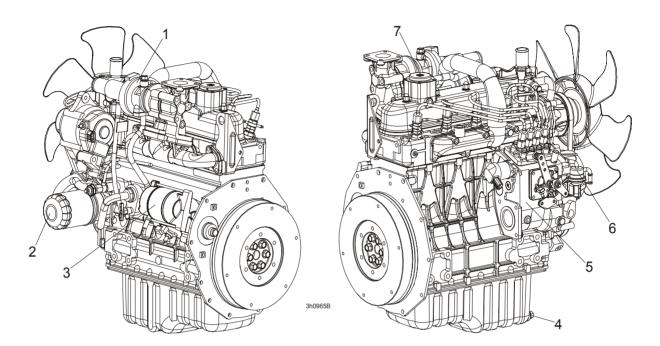


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16	BOLT M6x12-8.8-Fe/Zn5	F81001-7	4	
17	WASHER, 10.2 SPLIT LOCK ZINC	F81053-3	4	
18	BOLT M10x1,25x25-8.8-A-Fe/Zn5	F81003-29	8	
19	WASHER, 10.2 SPLIT LOCK ZINC	F81055-2	8	
20	BOLT, M8X45 - 8.8 HEX HEAD GRADE 5	F81002-14	4	
21	WASHER, M8, FLAT ZINC	F81054-1	4	



3.3 Engine Assembly



REF	DESCRIPTION (Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	ENGINE, KUBOTA V1505-T-E3B-EU-XL1	100571	1	
1	Turbocharger, Kubota	097738	1	
	Belt, Kubota Fan	097739	1	
	Radiator Fan	097740	1	
	Filter, Kubota D42 Air B53/207	088025	1	
	Filter Cartridge, Kubota D42 Air	097741	1	
	Filter, Kubota D42 fuel	088024	1	
	Filter Cartdridge, Kubota Fuel D42	097742	1	
2	Filter, Kubota Oil	097743	1	
	Gasket Kit, Kubota Lower	097744	1	
	Gasket Kit, Kubota Upper	097745	1	
	Gasket, Kubota Muffler	097746	1	
	Gasket, Kubota Fuel Injector	097747	1	
	Gasket, Kubota Fuel Transfer Pump	097748	1	
	Gasket, Kubota Head	097749	1	
	Gasket, Kubota Oil Drain Plug	097750	1	
	Gasket, Kubota Stop Solenoid	097751	1	
	Gasket, Kubota Thermostat	097752	1	
	Gasket, Kubota Valve Cover	097753	1	
	Gasket, Kubota Water Pump	097754	1	
	Gasket, Kubota Exhaust Manifold	097755	1	

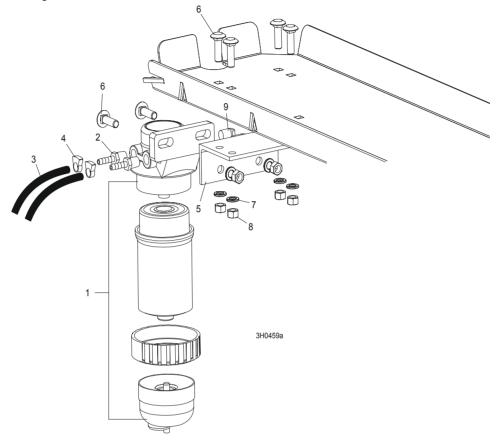


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	Glow Plug, Kubota	097756	1	
	Injector, Kubota Fuel	097757	1	
	Injection Sprayer, Fuel Kubota	097758	1	
3	Motor, Kubota Starter	097759	1	
4	Plug, Kubota Oil Drain	097760	1	
5	Pump, Kubota Fuel Injector	097761	1	
6	Pump, Kubota Fuel Transfer	097762	1	
	Pump, Kubota Water	097763	1	
	Radiator Parts (<u>See Section 3.8</u>)			
	Sending Unit, Kubota Heat Sensor	097764	1	
	Solenoid, Kubota Stop	097765	1	
	Switch, Kubota Oil Pressure	097766	1	
	Thermostat, Kubota	097767	1	
7	Oil Filling Cap Kubota	097768	1	
	Coolant Temperature Sensor	097769	1	
	Seal, D42 Crankshaft Front	097788	1	
	Seal, D42 Crankshaft Rear	097789	1	
	HARNESS ASSEMBLY, KUBOTA DIESEL ENGINE	088144	1	
	Breaker Assembly, Water Temp Max Circuit	N/A	1	
	Socket, Glow Plug Relay w/Fuse Holder	N/A	1	
	Fuse Link, 50 Amp	N/A	1	
	Relay, Glow Plug	088143	1	

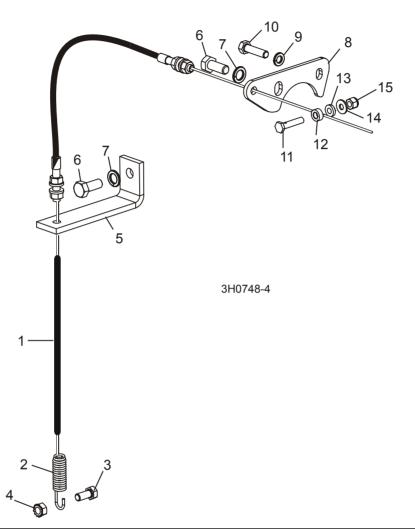


3.4 Primary Fuel Filter



REF	DESCRIPTION (Indicates Parts Available In Assemblies Only)	PART #	QTY.	
1	FILTER ASSEMBLY, STANDADYNE FUEL FPV-5,7 04WP40/3	088101	1	
2	FITTING, 3.4/3, 8MM, FILTR FPV-5,7	088094	2	
3	HOSE, 5/16" ID FUEL	R80703-2	9 Ft	
4	CLAMP, 11-17MM HOSE	F81080-3	2	
5	BRACKET, DIESEL FUEL FILTER MOUNT	015905	1	
6	BOLT, 3/8-16 X 1 1/4" CARRIAGE HEAD	F05007-11	6	
7	WASHER, 3/8" SPLIT LOCK	F05011-4	6	
8	NUT, 3/8-16 HEX	F05010-1	6	
9	FITTING, 1/4" NPT PLUG	P05498	2	

3.5 Throttle Assembly



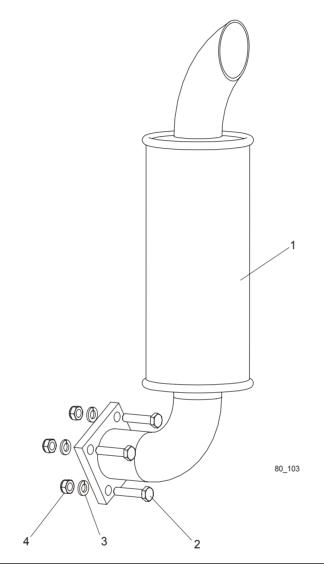
REF	DESCRIPTION (Indicates Parts Available In Assemblies Only)	PART #	QTY.	
1	CABLE, KUBOTA THROTTLE	015857	1	
2	Spring, Throttle	016033	1	
3	BOLT, 5/16-18 X 3/4" HEX HEAD	F05006-5	1	
4	NUT, 5/16-18 HEX SELF-LOCKING	F05010-20	1	
5	BRACKET, LOWER THROTTLE CABLE MOUNT	015853	1	
6	BOLT, M10-1.5 X 25MM HEX HEAD FULL THREAD GRADE 5	F05009-52	2	
7	WASHER, 10MM SPLIT LOCK	F05011-88	2	
8	BRACKET, UPPER THROTTLE CABLE MOUNT	019009	1	
9	WASHER, 5/16" SPLIT LOCK	F05011-13	1	
10	BOLT, M8-1.25 X 1" HEX HEAD	F05004-40	1	
11	BOLT, THROTTLE CABLE	015985	1	
12	WASHER, .266 X .50 X .28 AL-BRONZE	015986	1	



13	BOSS, 1/4 X 1/2 X .26" AL-BRONZE	016339	1	
14	WASHER, .25ID X .62OD X .06THK, PLATED	016175	1	
15	NUT, 1/4-20 NYLON LOCK	F05010-69	1	
16	NUT, 1/4-20 NYLON LOCK	F05010-69	1	
17	NUT, 5/16-18 SELF-LOCKING HEX	F05010-20	1	
18	BOLT, 5/16-18 X 1 1/4" HEX HEAD FULL THREAD	F05006-18	1	
19	NUT, 5/16-18 HEX LOCK	F05010-6	1	



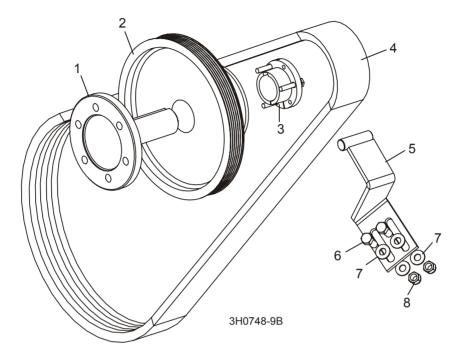
3.6 Muffler Assembly



REF	DESCRIPTION (Indicates Parts Available In Assemblies Only)	PART #	QTY.	
1	MUFFLER, KUBOTA ENGINE	088100	1	
2	BOLT, M8X40-8.8 HEX HEAD FULL THREAD ZINC	F81002-15	4	
3	WASHER, 8.2 ZINC SPLIT LOCK	F81054-4	4	
4	NUT, M8 HEX WELD	F81032-3	4	

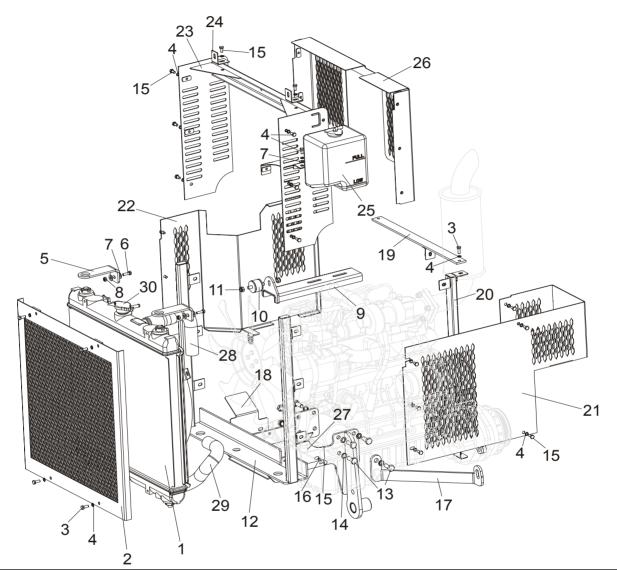


3.7 Drive Assembly



REF	DESCRIPTION (Indicates Parts Available In Assemblies Only)	PART #	QTY.	
1	SHAFT, KUBOTA POWER	087953	1	
2	SHEAVE, 5V X 4.46" POLY V (GAS/DIESEL)	085921	1	
3	BUSHING, SH X 1 7/16"	085714	1	
4	BELT, 3BX72	014085	1	
5	BRACKET, DRIVE BELT SUPPORT	016364	1	
6	BOLT, 3/8-16 X 1" HEX HEAD	F05007-7	2	
7	WASHER, 3/8" SAE FLAT	F05011-3	4	
8	NUT, 3/8-16 HEX NYLON LOCK	F05010-10	2	

3.8 Radiator Assembly & D42 Engine Guards



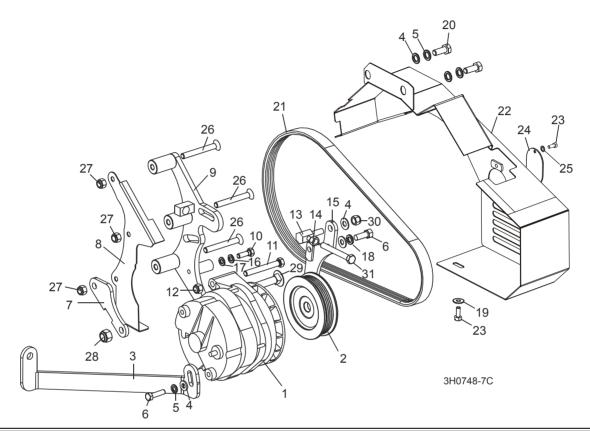
REF	DESCRIPTION (Indicates Parts Available In Assemblies Only)	PART #	QTY.	
1	RADIATOR, KUBOTA D42 ENGINE	097148	1	
2	RADIATOR GUARD, KUBOTA D42 ENGINE	097201-1	1	
3	BOLT M6X16 8.8 FE/ZN5	F81001-15	4	
4	WASHER, M6 SPLIT LOCK ZINC	F81053-3	21	
5	BRACKET, UPPER, RADIATOR D42	097305-1	2	
6	BOLT, M6X20MM, HH, FULL THREAD, ZINC	F81001-2	2	
7	WASHER, M8, FLAT,ZINC	F81054-1	6	
8	NUT, M6, HEX,NYLON LOCK ZINC	F81031-2	2	
9	BRACKET, KUBOTA RADIATOR, PTD	089481-1	1	



Replacement Parts *Radiator Assembly & D42 Engine Guards*

10	RADIATOR JOINT, METAL-RUBBER	088183	1	
11	NUT, M8,HEXAGON,NYLON LOCK ZINC	F81032-2	2	
12	FRONT RADIATOR BRACKET, PTD	097154-1	1	
13	BOLT M10-1.5X50MM H/H PART/THR G5 ZINC	F81003-29	8	
14	WASHER, M10 SPLIT LOCK ZINC	F81055-2	8	
15	BOLT, M6X12MM HEX HEAD ZINC	F81001-7	4	
16	WASHER, M6 SPLIT LOCK ZINC	F81053-3	4	
17	BRACE, KUBOTA ALTERNATOR REAR	093215-1	1	
18	GUARD, FAN BELT, RIGHT	097310-1	1	
19	MOUNTING BRACE	097206-1	1	
20	BRACKET, SIDE GUARD	097211-1	1	
21	GUARD, RIGHT	097307-1	1	
22	GUARD, LEFT	097197-1	1	
23	BRACKET, RADIATOR MOUNT	097156-1	1	
24	MOUNTING BRACKET, UPPER	097306-1	2	
25	RESERVOIR TANK, D42 ENGINE	097157	1	
26	INNER D42 ENGINE COVER	097308-1	1	
27	COVER, FAN BELT, D42 ENGINE		1	
28	RADIATOR HOSE, UPPER KUBOTA #1G669-72941 (D42)	N/A	1	
29	RADIATOR HOSE, LOWER KUBOTA #1G669-72851 (D42)	N/A	1	
30	RADIATOR CAP, KUBOTA	N/A	1	

3.9 Alternator Assembly

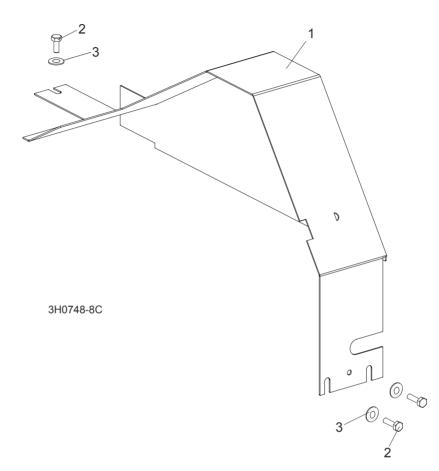


REF	DESCRIPTION (Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	WIRE ASSEMBLY, 61/140 AMP ALTERNATOR PLUG	015969	1	
	ALTERNATOR ASSEMBLY, 140 AMP	023730	1	٠
1	Alternator, 140 Amp	023695	1	
2	Pulley, 140 Amp Alternator	023694	1	
3	BRACKET, ALTERNATOR SUPPORT	015923	1	
4	WASHER, 10.5 SAE FLAT	F81055-1	3	
5	WASHER, 10.2 SPLIT LOCK	F81055-2	3	
6	BOLT, M10X25 8.8 HEX HEAD	F81003-11	1	
7	PLATE, REAR ALTERNATOR MOUNT	091676-1	1	
8	GUARD WELDMENT, REAR ALTERNATOR	091678-1	1	
9	BRACKET WELDMENT, ALTERNATOR MOUNT	091675-1	1	
10	BOLT, M10X20 8.8 HEX HEAD	F81002-4	1	
11	BOLT, 3/8-16 X 3" HEX HEAD FULL THREAD	F05007-1	2	
12	NUT, 3/8-16 HEX NYLON LOCK	F05010-10	1	
13	STUD, ALTERNATOR BELT TENSION ADJUSTMENT	091694-1	1	
14	NUT, M10-8-B	F81033-3	1	
15	PLATE WELDMENT, ALTERNATOR PIVOT	091678-1	1	



Alternator Assembly

3.10 Engine Pulley Guards



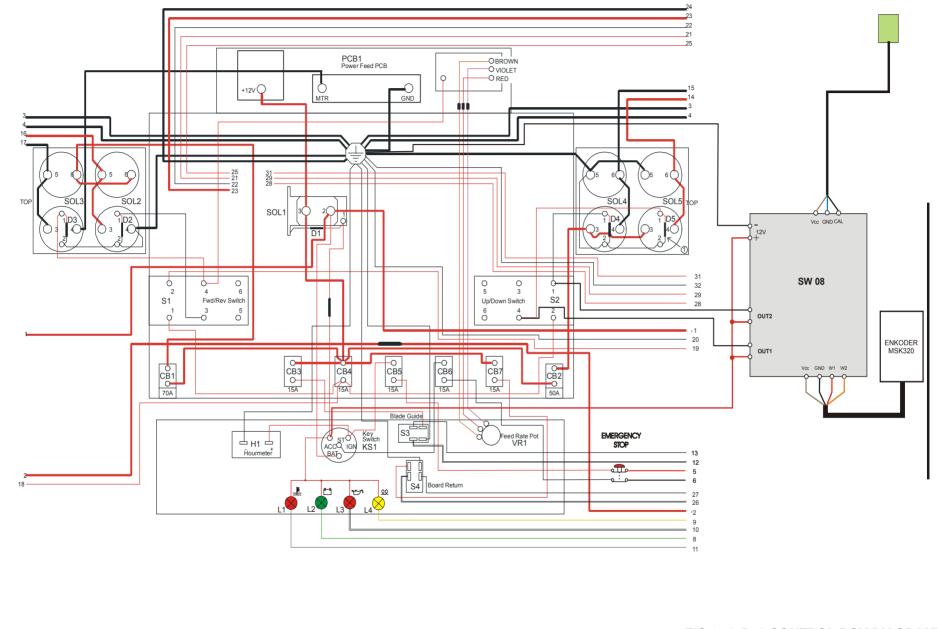
REF	DESCRIPTION (Indicates Parts Available In Assemblies Only)	PART #	QTY.	
1	GUARD WELDMENT, KUBOTA ENGINE PULLEY	095086-1	1	
2	BOLT, M6x12-8.8 HEX HEAD	F81001-7	3	
3	WASHER, 6,5 ZINC	F81053-11	3	



SECTION 4 ELECTRICAL WIRING DIAGRAMS, D42

IMPORTANT! When using a sawmill with the rewired control panel it is very important not to switch between saw head forward/backward movement until the saw head stops. Failure to do so may result in serious sawmill damage.

WARNING! When using the variable reverse speed wiring it is recommended that the operator should stop the head, turn the potentiometer to zero, engage reverse and then increase speed. Failure to do this may result in damage to the circuit. There is a protection in the circuit and if this is activated it will not allow the head to start the return movement until the potentiometer is set to zero.

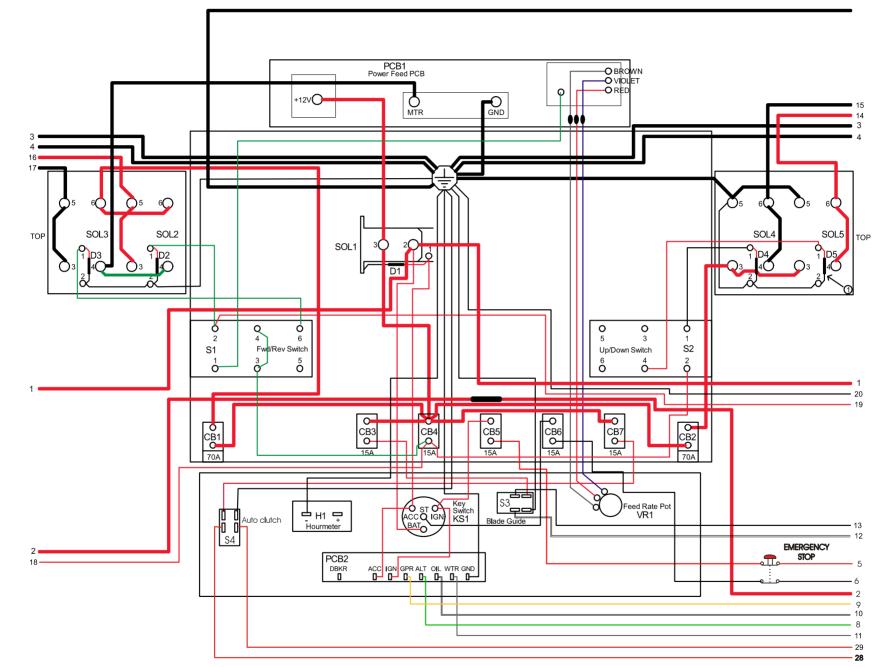


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5-2

Electrical Information

FIG. 4-1 D42 CONTROL BOX DIAGRAM).





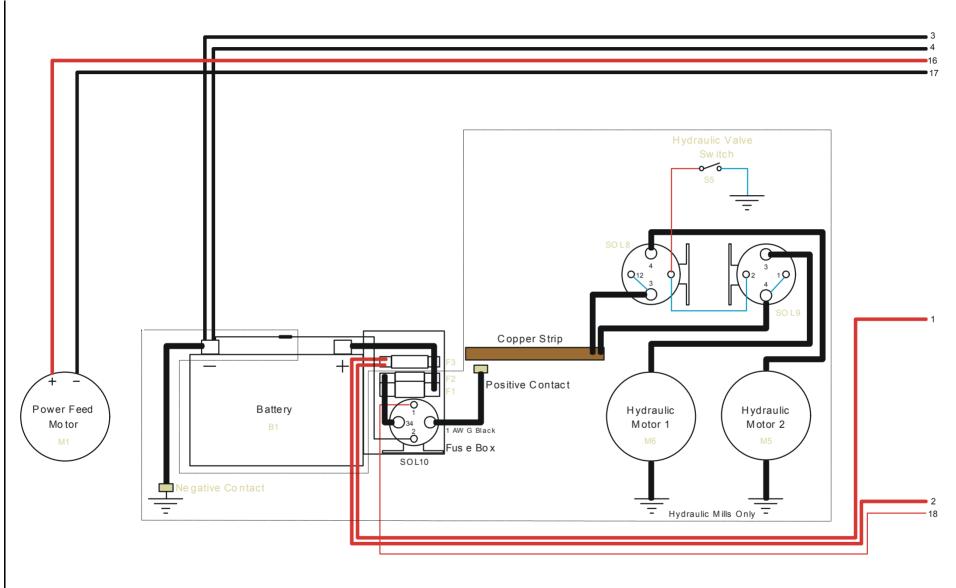


FIG. 4-5 D42 HYDRAULIC DIAGRAM.

	Component List				
ltem	Mfg.PartNo.	Mfg.	Wood-Mizer PartNo.	Description	
A1	023 73 0	Wood-Mizer	023 73 0	Alter nator, 140 Amp	
B1	12 31 P M F	Deka	015475	Battery, 12 Volt (<u>Se e Battery Specifications</u>)	
CB1	70-164 8-009	Mech. Prod.	0 15 52 7	Breaker, 70 Amp Manu al Reset Pane I Mount, Power Feed	
CB2	70-164 8-009	Me ch. Prod.	0 15527	Break er, 70 Am p Manu al Reset Pane I Moun t, Up/Dow n	
CB3	CH30407-15	Cole-Hersee	E 2 04 30	Breaker, 15 Am p Manu al Reset, Blade Guide	
CB4	CH30407-15	Cole-Hersee	E 2 04 30	Breaker, 15 Amp Manu al Reset, Accessory	
CB5	CH30407-15	Cole-Hersee	E20430	Breaker, 15 Amp Manu al Reset, Ignition	
CB6	CH30407-15	Cole-Hersee	E204 30	Breaker, 15 Amp Manu al Reset, Start	
CB7	CH30407-15	Cole-Hersee	E204 30	Breaker, 15 Amp Manu al Reset, Board Return	
CB1 0	024 45 3	Wood-Mizer	024 45 3	Breaker Assy, Water Temp Max Circuit	
D1 - D5	087496	Wood-Mizer	087496	Diode Assem bly, Solenoid Coil Chassis	
D7	024 12 3	Wood-Mizer	024 12 3	Diode Assem bly, Inductive Kick Protection (Setworks Only)	
F1, F2 ¹	RL-225	Gould	P 11 55 0	Fuse Link, 225 Amp, 250 Volt For Hydraulic + 12 Volt Circuit	
F3	RL-150	Gould	023361	Fuse Link, 150A 250V For Main + 12 Volt Starter, Alternator	
F4	N/A	N/A	02 45 97	Fuse Link , 50 Amp Kubota Glow Plug	
GP 1-GP 4	16851-65510	K ub ot a	092277	Glow Plug	
H1	T14BH517BC9	ENM Corp.	0 15 40 1	Hour Meter, 12 Volt, Low Power T14 Series	
KS 1	121801	General	P0 4 3 5 0	Key Switch, 4-position (Accessory, Off, Ignition, Start)	
M1	10 86 77 .00	Leeson	024 16 9	Motor, 3/4HP 12VDC TEFC Power Feed w/o Base	
M2	10 86 78 .00	Leeson	0 15 17 4	Motor, 3/4HP 12VDC TEFC Up/Down w/Base	
M3	P09698-1	K lau be r	A 10 36 5	Motor, 12 Volt Blade Guide Arm 53:1 Gear	
M4	P09698-1	K lau be r	A 10 36 5	Motor, 12 Volt Board Return 53:1 Gear	
M5,M6 ¹	81 11	Mo na rch	P09955	Motor, 12 Volt Hydraulic Pump	
PCB1	051667	Wood-Mizer	051667	Circu it Board, Control Box Power Feed	
P CB2	089694	Wood-Mizer	089694	Board, LED Circuit (Diesel)	
R1	1238 537	B os ch	092277	Relay, Glow Plug Timer	
S1	2601-AF 2-S 11	Square D	E20438	Drum Switch, Power Feed Fwd/Reverse Motor	
S2	2601-AF2-S12	Square D	E 20 44 0	Drum Switch, Up/Down Motor	
S3	34 -591Q	P ol la k	0 24 20 0	Tog gle Switch, Blade Guide In/Out Motor	
S4	34 -591 Q	P ol la k	02 42 00	Toggle Switch, Board Return Motor	
S5 ¹	024 19 8	Wood-Mizer	024 19 8	Switch, Hydraulic Pump Levers	
S6	15841-39010	K ub ot a	028 54 7	Switch, Oil Pressur e Sensor	
S7	TM9A230RQCG	K ub ot a	028 51 0	Switch, Water Temp Sensor	
SO L1	015470	Stanc or	015470	Soleno id 200 A 12V SPST	
SO L4 -SO L 5	58 6-911	Stanc or	015417	Soleno id, 200 A 12V DPST	
SO L7	17454-60010	K ub ot a	028 52 3	Soleno id, Fuel	
SO L 8,	586-902	Stanc or	015470	Soleno id, 200 A 12V SPST Hydraulic Pump Motor	
SO L 9, SO L1 0 ¹					
V1	G 5 11 90 14 5	P ar ke r	0 16 28 0	Valve, Waterlube Solenoid	
VR 1	E20519	Wood-Mizer		Potentiome ter, Variable Resistance Power Feed	
VICI	L20319	woou-wizer	E20519	Fotentione ter, variable resistance Power Feed	