

G25 Engine

Safety, Operation, Maintenance & Parts Manual

**1992 LT30HD
1992 LT40HD**

**rev. C7 - F7
rev. C7 - F7**



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

November 1996

Form #657

See page 23 for these revisions

LT30

rev. F7.00 - J7.04

LT40

rev. F8.00 - J9.01

LT30HD


rev. G1.00 - J8.05

LT40HD

rev. G1.00 - J9.07

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SECTION 1 SAFETY & GENERAL INFORMATION

 This symbol calls your attention to instructions concerning your personal safety. Be sure to observe and follow these instructions. This symbol accompanies a signal word. The word **DANGER** refers to hazards that can cause death or serious, irreversible personal injury. The word **WARNING** suggests a safety hazard that can cause personal injury. **CAUTION** refers to hazards that can cause damage to the equipment or property only.

Read all safety instructions before operating this equipment and observe all safety warnings! Read the manufacturer's operation manual and observe any additional safety warnings applicable to the specific make and model you have purchased.


1.1 Refueling

 **WARNING!** Store gasoline away from sawdust and other flammable materials.


WARNING! Do not store gasoline near hot or burning materials.

WARNING! Do not smoke near gasoline storage tank or during refueling.


1.2 Engine Operation

 **DANGER!** Do not operate engine in enclosed areas. Carbon Monoxide poisoning may occur.

DANGER! Do not operate engine without proper and operational spark arrester/muffler.


 **WARNING!** The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

1.3 Battery Handling

 **WARNING!** Batteries can explode when charging or boosting. Always wear eye protection.

WARNING! Keep cigarettes, flames or sparks away from battery.

WARNING! Charge the battery in a well-ventilated area. Do not attempt to charge a frozen battery.

 **CAUTION!** Place a rag over battery vent holes when handling to avoid electrolyte squirting from holes.

SECTION 2 OPERATION

2.1 Starting The Engine

To start the engine:

Turn the key switch on the control panel to the START position and release.

If the engine needs choking to start, pull the choke wire out until the engine starts. Push the choke wire in after the engine starts.

For more information, see the engine manufacturer's operation manual.

If the fuel tank was recently filled or replaced, squeeze the primer bulb once or twice before trying to start the engine. **NOTE:** If pumping problems are experienced, make sure the out-flow end of the hose line is connected to the fuel filter. If pumping problems are still experienced, hold the primer bulb in a vertical position while squeezing. This allows the fuel check valve to operate properly.

NOTE: It is normal for the Kohler engine to remain running a few seconds after the ignition switch has been turned to the "OFF" position.



WARNING! Do not start the engine when the clutch/brake lever is in the engaged (down) position. Always be sure the blade is disengaged and all persons are away from the blade before starting the engine.

WARNING! Make sure the carriage fwd/rev switch is in the neutral position before turning the key switch to the ON or ACC position. This will prevent unintended carriage movement.

SECTION 3 MAINTENANCE



IMPORTANT! The Wood-Mizer maintenance schedule takes into account the specific use of engines in the Wood-Mizer sawmill. Therefore, the schedule may require certain procedures be performed at different time intervals than found in the engine manufacturer's manuals. Refer to the manufacturer's manual if you need more information on how to perform a procedure or on the engine itself.



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

3.1 Air Filter & Pre-Cleaner



Service the pre-cleaner every four hours of operation. Service by gently shaking excess sawdust and debris from the foam piece.



Clean the air filter (air cleaner element) and pre-cleaner (element wrapper) every eight hours of operation. See the engine manual for further instructions.



Replace the air filter (cleaner) every 200 hours of operation.



Replace the pre-cleaner (element wrapper) every 2000 hours of operation.

3.2 Air Cooling System



Wash the engine or brush off sawdust and debris every 50 hours of operation. Clean the spark arresters, breather pipe, cylinder head and cylinder cooling fins. Remove any dust, dirt or oil. See engine manual for further instructions.

3.3 Fuel Filter



Replace the fuel filter every 100 hours of operation.

3.4 Battery

50

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



WARNING! Batteries contain explosive gases. Always wear eye protection and keep face away when charging or boosting battery. Charge battery in well-ventilated area. Keep battery away from hot or burning materials. Avoid spilling electrolyte when handling.

3.5 Alternator Belt

Adjust the alternator belt as needed. Check the alternator belt for tension and wear when battery is not charging properly or when the alternator belt is squealing. To tighten the belt, loosen the adjustment bolt and lock washer. Pivot the alternator away from the motor until the belt has 3/16" (5 mm) deflection with a 5 lb. deflection force. Retighten the adjustment bolt.

See Figure 3-1.

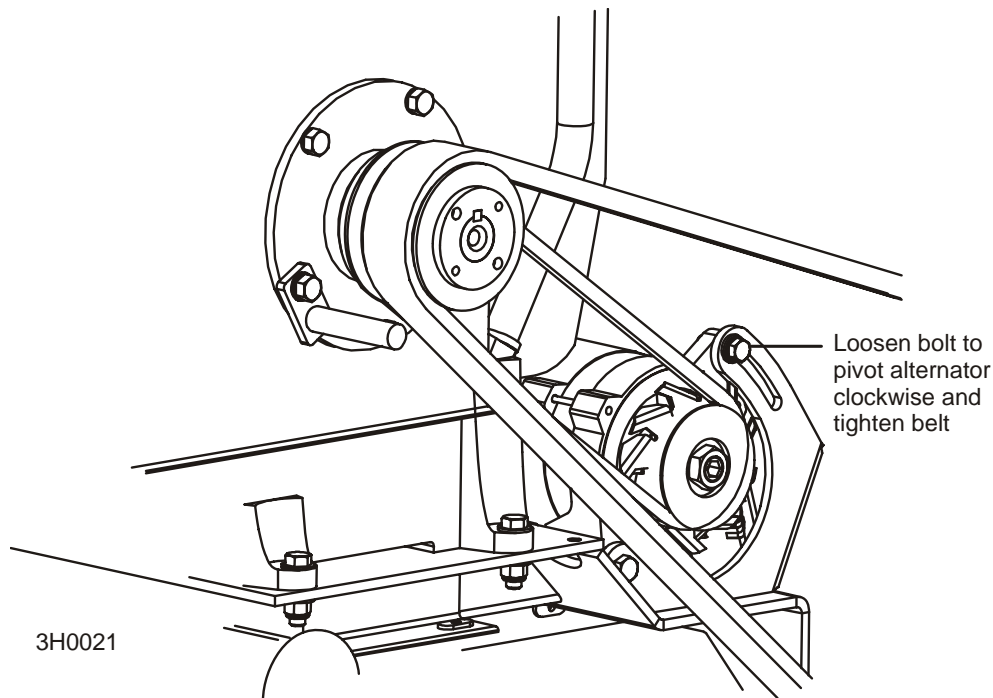


FIG. 3-1

3.6 Drive Belt Adjustment

50

See Figure 3-2. Check the drive belt tension after the first 20 hours, and every 50 hours thereafter. The drive belt should have 7/16" (11 mm) deflection with a 14 lb. deflection force. To adjust the drive belt, remove the two belt covers located underneath the engine. Loosen the turnbuckle jam nuts. Turn the turnbuckle counterclockwise (as viewed from the top) to tighten the belts, clockwise to loosen the belts. Retighten the jam nuts. Replace the belt covers.

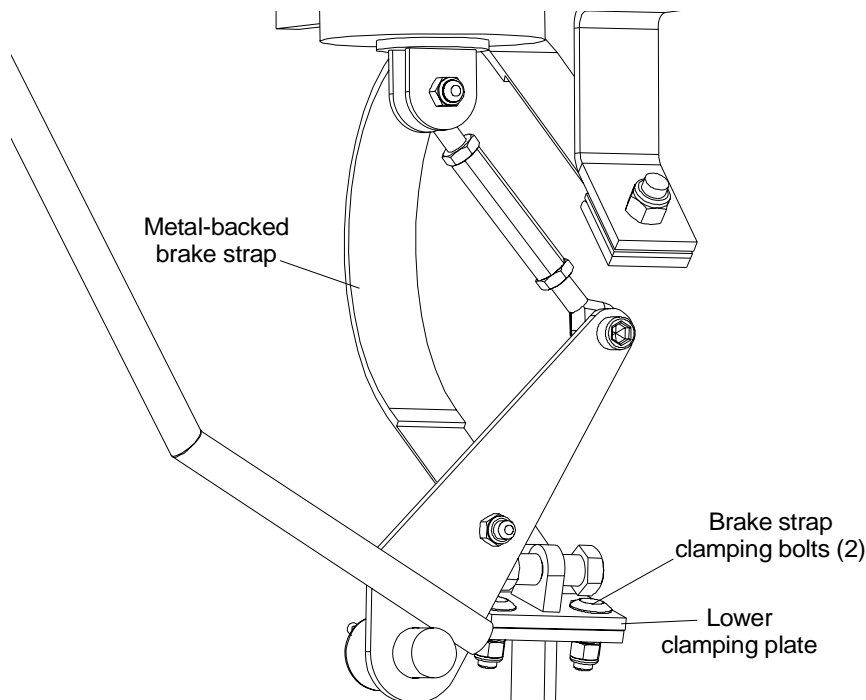


FIG. 3-2

NOTE: A longer turnbuckle is available as a retrofit for gas or electric sawmills built before 9/92. The longer turnbuckle will provide more adjustment for the drive belts.

AR

Periodically check all belts for wear. Replace any damaged or worn belts as needed.

AR

Adjust the drive belt support as needed. The drive belt support is designed to extend belt life. The support bracket should be adjusted to NOT touch the drive belt when the clutch handle is engaged (down position), AND to hold the drive belt away from the engine pulley when the clutch handle is disengaged (up position).



DANGER! Do not for any reason adjust the drive belt support with the motor running. Always stop the motor before reaching or looking into the drive belt area.

See Figure 3-3. To adjust:

1. Make sure the motor is not running. Loosen the adjustment bolt.
2. Position the support bracket so it does not touch the drive belt with the clutch handle engaged, and does hold the drive belt away from the motor pulley with the clutch handle disengaged.
3. Retighten the adjustment bolt to 25-27 pound feet (34-37 newton meters).

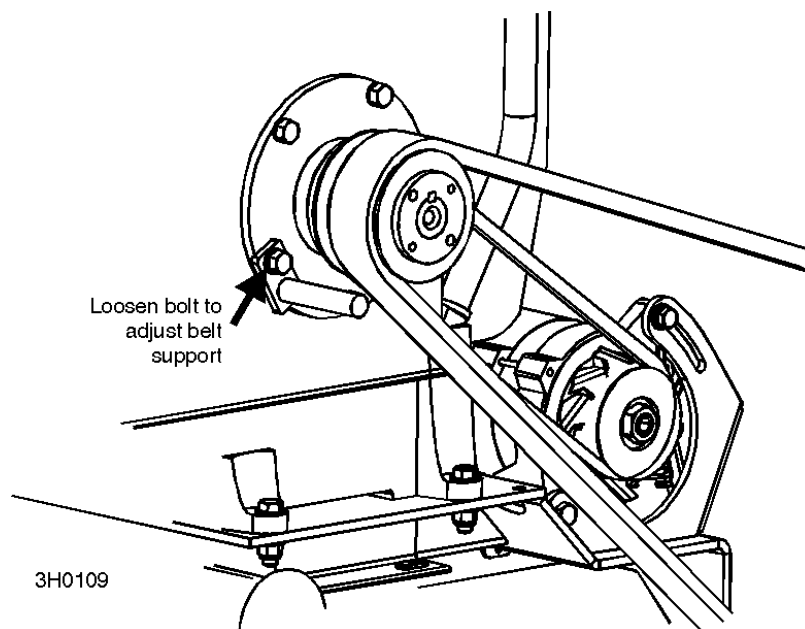


FIG. 3-3

NOTE: Drive belt support brackets are supplied on electric sawmills built after 1/92, gas and diesel sawmills after 9/92. The brackets can be retrofitted to older models. Replacing two drive belts with a single common-backed belt also will prevent belt jumping and increase belt life.

3.7 Miscellaneous Maintenance

50

Clean and inspect the spark arresters every 50 hours of operation. Replace if damaged.

100

Inspect the spark plugs every 100 hour of operation. Remove any deposits and adjust gap if necessary. See engine manual for further information.

100

Clean carbon and lead deposits from the cylinder head every 100 hours of operation. See engine manual for further details.

3.8 RPM Adjustments



DANGER! Remove the blade from the sawmill before checking engine RPM.

200

Check the RPM with a tachometer after the first 20 hours of operation and every 200 hours thereafter. High-end RPM should be 3200-3400 RPM and low-end RPM should be 1800 (± 100).

Before checking the RPM, make sure belt and brake strap tension are correct (See Sawmill Maintenance).

1. Start the engine to measure the low-end RPM.

See Figure 3-4. Make sure that the throttle linkage is not affecting the engine RPM while the clutch/brake handle is disengaged.

Make sure the cable is not bent or kinked. If necessary, rotate the clamp on bracket B until the cable spring, cable guide, cable, and throttle brackets are aligned. **NOTE:** It is important that the above components are aligned. Proper alignment allows any slack in the cable (when engine is idling) to slide down into the cable spring. This maintains free operation of the cable and prevents the cable from kinking. Make sure the shoulder bolt does not rub against the crankcase vent tube.

2. Refer to the engine manual to adjust the low-end RPM.
3. Engage the clutch handle to throttle the engine and measure the high-end RPM.

See Figure 3-4. To adjust the high-end RPM, lower or raise the cable guide in the throttle cable bracket until the cable spring extends 1/4" - 3/8" (6.4 - 9.5 mm) when the engine is at 3200-3400 RPM. Bend the high speed stop on bracket B down until it touches bracket A. This will prevent over-revving the engine when tightening the belt adjustment. To adjust for low-end RPM, adjust the idle screw on bracket B until the RPM is 1800 (± 100). **NOTE:** A properly adjusted throttle will extend the cable spring 1/4" to 3/8" (6.4 - 9.5 mm) when running and have a slight amount of slack in the cable when idling.

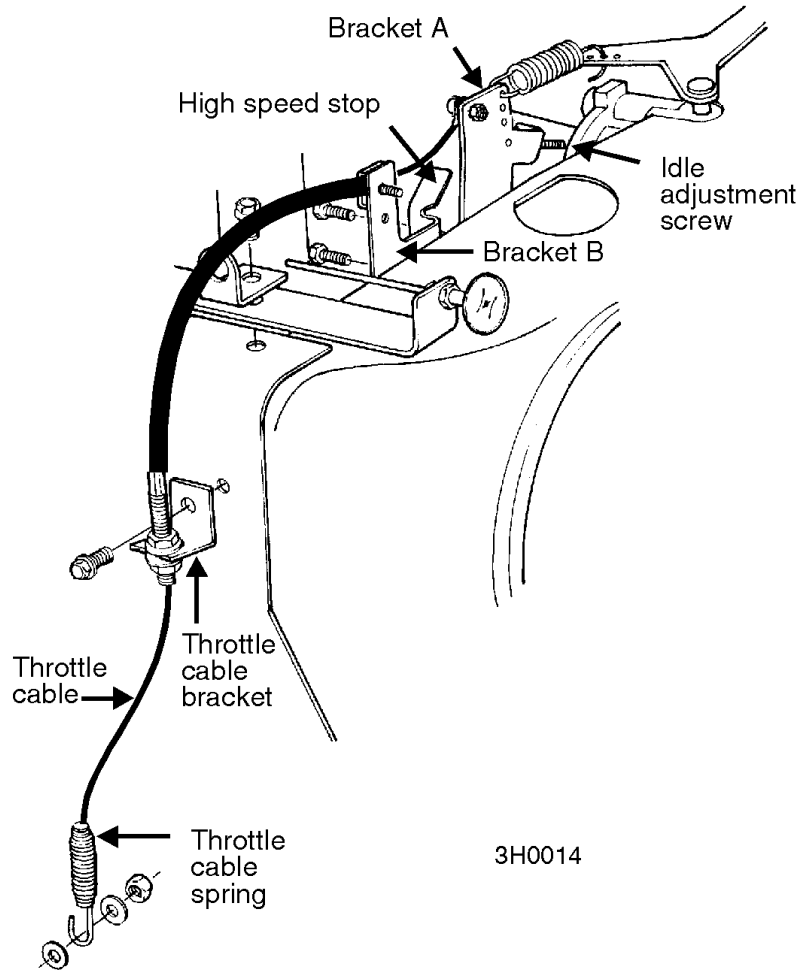


FIG. 3-4

SECTION 4 REPLACEMENT PARTS

4.1 How To Use The Parts List

- Use the table of contents or the index to locate the assembly that contains the part you need.
- Go to the appropriate section and locate the part in the illustration.
- Use the number pointing to the part to locate the correct part number and description in the table.
- Parts shown indented under another part are included with that part.
- Parts marked with a diamond (◆) are only available in the assembly listed above the part.

See the sample table below. Sample Part #A01111 includes part F02222-2 and subassembly A03333. Subassembly A03333 includes part S04444-4 and subassembly K05555. The diamond (◆) indicates that S04444-4 is not available except in subassembly A03333. Subassembly K05555 includes parts M06666 and F07777-77. The diamond (◆) indicates M06666 is not available except in subassembly K05555.

4.2 Sample Assembly				
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	SAMPLE ASSEMBLY, COMPLETE (INCLUDES ALL INDENTED PARTS BELOW)	A01111	1	
4	Sample Part	F02222-22	1	
	Sample Subassembly (Includes All Indented Parts Below)	A03333	1	
5	Sample Part (◆ Indicates Part Is Only Available With A03333)	S04444-4	1	◆
	Sample Subassembly (Includes All Indented Parts Below)	K05555	1	
6	Sample Part (◆ Indicates Part Is Only Available With K05555)	M06666	2	◆
7	Sample Part	F07777-77	1	

To Order Parts:

- From the continental U.S., call **1-800-525-8100** to order parts. Have your customer number, vehicle identification number, and part numbers ready when you call.
- From other international locations, contact the Wood-Mizer distributor in your area for parts.

4

Replacement Parts

Fuel Tank/Water Bottle Assembly

4.3 Fuel Tank/Water Bottle Assembly				
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	TANK ASSEMBLY, 5 GALLON RED GASOLINE	A12285	1	
1	Tank, 5 Gallon Red Fuel	P12167	1	◆
2	Pickup, 9" Fuel	P12172	1	
3	Cap, 3/5 Gallon Fuel Tank	P09683	1	
4	Fitting, 1/4" NPT Plastic Female Disconnect	P12175	1	
	TRAY ASSEMBLY, FUEL TANK/WATER BOTTLE	A11685	1	
5	Tray, Fuel Tank/Water Bottle	S11684	1	◆
	Strap, 15" Rubber	P07461 ¹	1	
6	Strap, 20" Rubber	P11668	2	
7	Strap, 24" Rubber	P11258	2	
8	Bolt, 1/4-20 X 1" Carriage Head	F05005-34	5	
9	Nut, 1/4-20 Hex Lock	F05010-21	5	
	Clamp, 1/2" EMT Hose	P07584	3	
	Bolt, 1/4-20 x 1/2" Carriage Head	F05005-33	2	
	Nut, 1/4-20 Self-Locking	F05010-9	2	
	Washer, 1/4" SAE Flat	F05011-11	3	
	HOSE, FUEL LINE WITH PRIMER BULB	014497 ²	1	
	Bulb Kit, Fuel Primer Replacement	014496 ²	1	
10	Bulb, Fuel Primer	014481	1	◆
	Clamp, 7/32 - 1/2 Hose	P649 ²	2	
	Instruction Sheet, Fuel Primer Bulb Replacement	014496-590	1	
	Hose, 1/4" ID Fuel	P642 ²	6.5 Ft	
	Clamp, 7/32 - 1/2 Hose	P649 ²	2	
11	FITTING, 1/4" NPT PLASTIC MALE DISCONNECT	P12176 ³	1	
12	BOTTLE, 5 GALLON WATER	P04357	1	
13	Cap, 5 Gallon Water Bottle	P09088	1	
14	FITTING, 3/4" TO 1/4" REDUCER	P04695	1	
15	VALVE, WATER FLOW	P04669	1	
16	FITTING, 3/8" HOSE BARB	P04730	1	
17	HOSE, PLASTIC WATER LUBE	R01885	6.5 Ft	

¹ 15" rubber strap added to secure sawdust chute 11/94.

² Fuel Line Assembly w/Primer Bulb replaces P10083 originally supplied. UV-resistant primer bulb kit 014496 available separately. Fuel Line P642 replaces R01890-1 originally supplied. Hose Clamp P649 replaces plastic clamp P12374 previously supplied.

³ Replacement requires qty. 1 hose clamp (P12374).

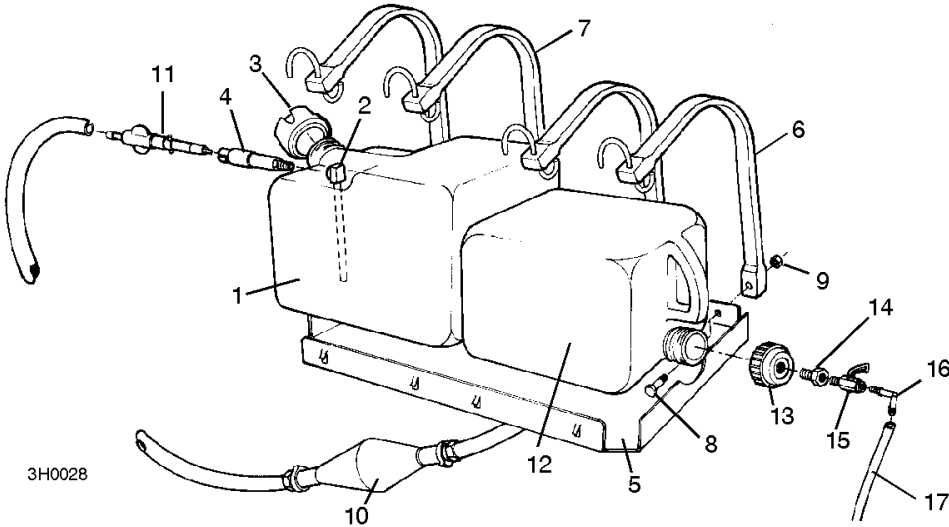


FIG. 4-1

4.4 Engine Assembly				
	ENGINE ASSEMBLY, 25HP KOHLER	A12562	1	
1	Engine, 25HP Kohler	P12529	1	◆
	Filter Kit, Kohler Air/Pre #24-883-03-S1	P12734	1	
2	Filter, Kohler 25hp Air	P12736	1	◆
3	Pre-Cleaner, Kohler 25hp Air	P12737	1	◆
4	Filter, Kohler Oil #52-050-02	014717 ¹	1	
	Filter, Kohler 25hp Fuel	P12758 ²	1	
	Plug, Kohler 25hp Spark	P12757	2	
5	Cable Assembly, Throttle	P12313	1	
	Spring, Throttle	016033	1	
6	Washer, 1/4 SAE Flat	F05011-11	1	
7	Bolt, 1/4"x 3/8" Shoulder (#10-24 Thread)	F05004-57	1	
8	Nut, #10-24 Self-Locking	F05010-14	1	
9	Bracket, Mast Extension Throttle	S12564	1	
10	Bracket, Throttle	S12312	1	
11	Hose, 8" Oil Drain	P10082	1	
12	Cap, Oil Drain 3/8" Pipe	P04332	1	
	Oil, 10W30 Type CD	L04869-1	.5 Gal	
13	Pulley, 3-Groove Motor	S10435-W	1	
14	Key, 1/4" x 1/4" x 1 11/16"	S04124 ³	1	
15	Bushing, 1 1/8" Split Taper	P04306	1	
16	Spacer, 25HP Kohler	S12559	2	
17	Bolt, 3/8-16 x 2" Hex Head Full Thread	F05007-16	4	
18	Nut, 3/8-16 Hex Nylon Lock	F05010-10	4	
19	Guard, Formed Oil Filter	S12560	1	
20	Washer, 1/4 SAE Flat	F05011-11	2	
21	Bolt, 1/4-20 x 3/4" Hex Head Full Thread	F05005-1	2	
22	Nut, 1/4-20 Self-Locking	F05010-9	2	
23	BELT, 2BX72 DOUBLE-BACKED NOTCHED V	P09555-2	1	
24	PLATE, MOTOR MOUNT	W11543 ⁴	1	
	BUSHING ASSEMBLY, MOTOR MOUNT PIVOT	A04127 ⁵	2	◆
25	Bushing, Rubber Motor Mount Pivot	P12164	1	
26	Spacer, Motor Mount Pivot	P05041	1	
27	PLATE, MOTOR MOUNT PIVOT BUSHING	S04403	2	
28	BOLT, 5/16-18 X 2 1/2" 'U'	P05039	2	
29	NUT, 5/16-18 HEX LOCK	F05010-6	4	
30	BOLT, 3/8-16 X 1 1/2" HEX HEAD GRADE 2	F05007-3	4	
31	WASHER, 3/8" SAE FLAT	F05011-3	4	
32	ALTERNATOR, 105A 12V	050287 ⁴	1	
	WIRE ASSEMBLY, 61/105 AMP ALTERNATOR PLUG	015969	1	
	BOLT, 3/8-16 X 3 1/2" HEX HEAD GRADE 8	F05007-6 ⁶	1	

4

Replacement Parts

Engine Assembly

33	BOLT, 3/8-16 X 5 1/2" HEX HEAD FULL THREAD	F05007-34 ⁷	1	
	WASHER, 3/8-16 FLAT	F05011-13 ⁷	1	
	BRACE, ALTERNATOR	W12761 ⁷	1	
34	NUT, 3/8-16 HEX NYLON LOCK	F05010-10	1	
35	BOLT, M8 X 1.25" X 1" HEX HEAD FULL THREAD	F05004-40 ⁸	2	
36	WASHER, 5/16" SAE FLAT	F05011-17	1	
37	WASHER, 5/16" SPLIT LOCK	F05011-13	1	
38	PULLEY, 1979452 DELCO ALTERNATOR	P03806	1	
39	BELT, A32 ALTERNATOR	P12740	1	
	BRACKET ASSEMBLY, DRIVE BELT SUPPORT	A12243	1	
40	Bracket, Drive Belt Support	W12237	1	◆
41	Bolt, 3/8-16 X 1" Hex Head Grade 2	F05007-7	1	
42	Washer, 3/8" Split Lock	F05011-4	1	
	Instruction Sheet, Drive Belt Support	A12243-420	1	

¹ Replaces P12738 (Kohler #12-050-01) filter originally supplied before 8/98. Filters are interchangeable.

² Kohler #24-050-13 9-12 micron filter replaces #240-050-10 8-10 micron filter originally supplied.

³ 1-11/16" key replaces 1 1/4" or 2" key originally supplied.

⁴ 105A Alternator 050287 replaces 61A alternator P03804 originally supplied (no longer available from vendor). Requires replacement of mounting bracket (W11543). Existing brackets can be modified to accept 105A alternator by grinding enough material (approx. 1/16" - 1/8") from the bottom of the mounting plates to clear the larger alternator body.

⁵ A04127 no longer available. Purchase individual component parts P12164 and P05041.

⁶ Replaced by F05007-34 to accommodate alternator brace (LT30 Rev. E5387, LT40 Rev. E6102, LT30HD Rev. E8329, LT40HD Rev. E8354 and up).

⁷ Added to reinforce alternator (LT30 Rev. E5387, LT40 Rev. E6102, LT30HD Rev. E8329, LT40HD Rev. E8354 and up).

⁸ Qty. 1 added to reinforce alternator (LT30 Rev. E5387, LT40 Rev. E6102, LT30HD Rev. E8329, LT40HD Rev. E8354 and up).

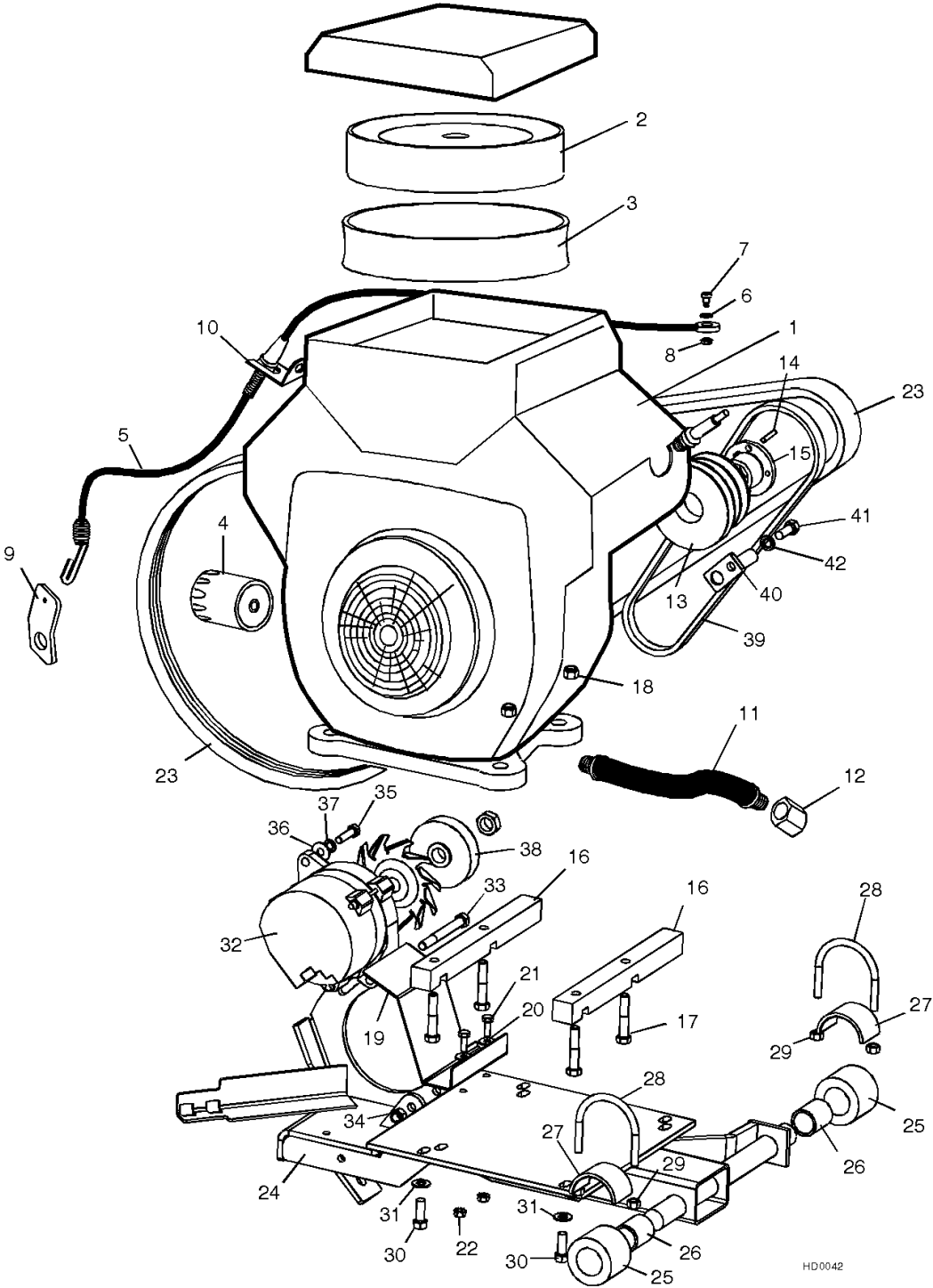
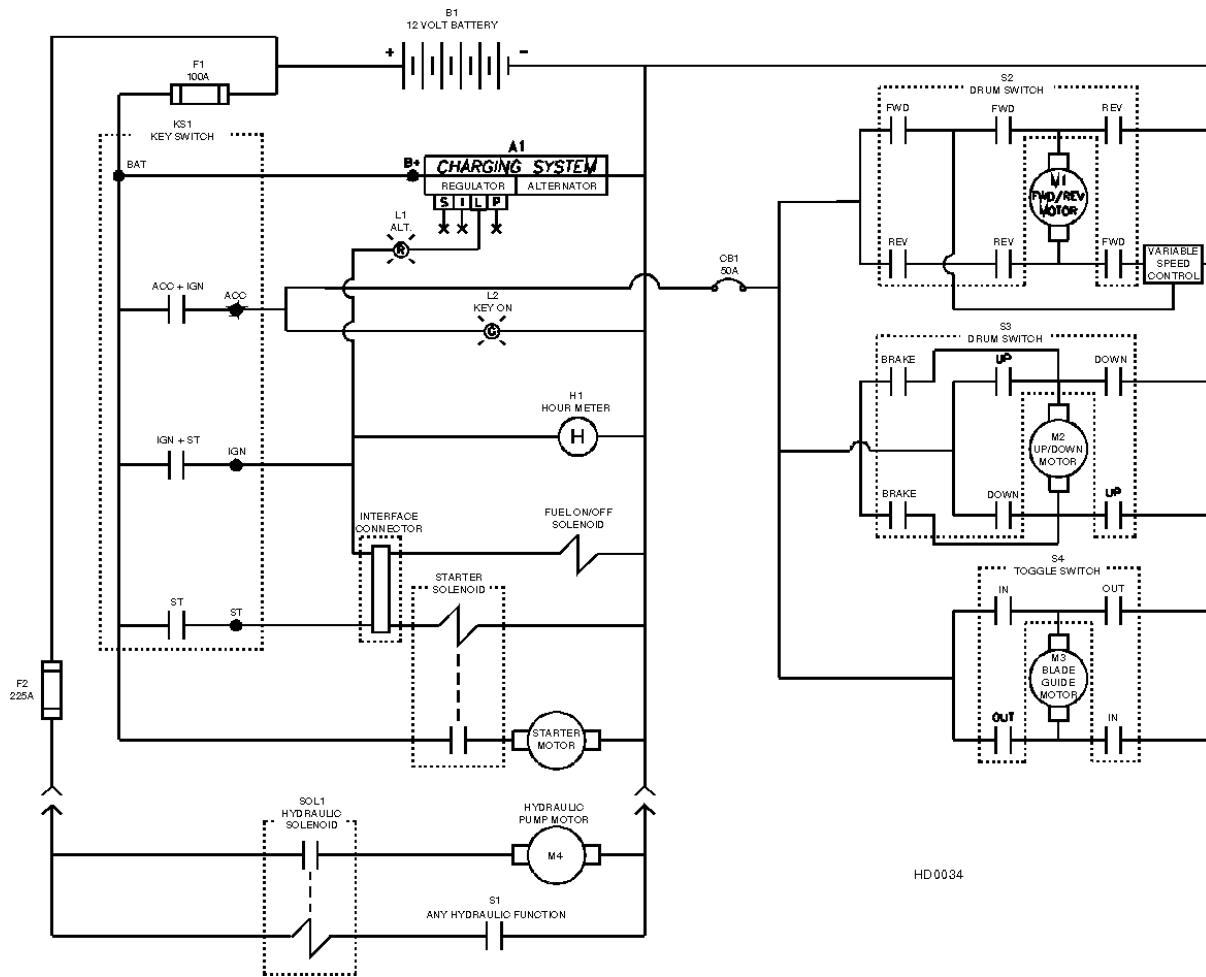


FIG. 4-2

SECTION 5 ELECTRICAL INFORMATION

5.1 Electrical Symbol Diagram, LT30HD/LT40HD G25



HD 0034

FIG. 5-1

5.2 Electrical Components, LT30HD/LT40HD G25

Item	Manufacturer Part No.	Manufacturer	Wood-Mizer Part No.	Description
A1	CS-130	Delco-Remy	050287 ¹	Alternator, 12 Volt, 105 Amp Maximum
B1	DP24M ²	Deka	P09853-1	Battery, 12 Volt LT30HD/40HD (See Section 5.3)
CB1	30128-30	Cole-Hersee	E20486 ³	Circuit Breaker, 30 Amp, 12 Volt, For Power Feed Motor, Auto Reset (U.S.)
F1	RL-100	Gould	P11549	Fuse Link, 100 Amp, 250 Volt For Main + 12 Volt Starter, Alternator
F2	RL-225	Gould	P11550	Fuse Link, 225 Amp, 250 Volt For Hydraulic +12 Volt Circuit
H1	T40 Series	ENM Corp.	P09631	Hour Meter, 12 Volt, Low Power T40 Series
KS1	121801	General	P04350	Key Switch, 4-position (Accessory, Off, Ignition, Start)
L1	2128	General	P04986	Light, Red Warning, For Alternator Malfunction
L2	2129	General	P20436	Light, Green Indicator, For Key Switch In Acc Or Ign Position
M1	1149-001	Current App.	006747 ⁴	Motor, 12 Volt Power Feed
M2	N/A	Leeson ⁵	A04367	Motor, 12 Volt Up/Down
M3	P09698-1	Klauber	A10365	Motor, 12 Volt Blade Guide Arm 53:1 Gear
M4	08714	Monarch Hyd.	052807 ⁶	Motor, 12 Volt Hydraulic Pump
PCB1	024495	Wood-Mizer	024495 ⁷	Circuit Board, Power Feed
S1	024198	Wood-Mizer	024198 ⁸	Switch, Hydraulic Pump Levers For Revisions E7+
	03721	Monarch Hyd.	P09593	Switch, Hydraulic Pump Lever For Revisions C7-E6
S5	2601-AF2-S11	Square D	E20439	Drum Switch, (U.S.), Power Feed Fwd/Reverse Motor
S6	2601-AF2-S12	Square D	E20440	Drum Switch, Up/Down Motor
S7	1121-0004	McGill	P10006	Toggle Switch, Blade Guide In/Out Motor
SOL1	586-902	Stancor	016371 ⁹	Solenoid, 200 Amp Hydraulic Pump Motor
Revisions C7-E6 Only				
S2	03721	Monarch Hyd.	P09593	Switch, Hydraulic Pump Lever
S3	03721	Monarch Hyd.	P09593	Switch, Hydraulic Pump Lever
S4	03721	Monarch Hyd.	P09593	Switch, Hydraulic Pump Lever

¹ 105A Alternator 050287 replaces 61A alternator P03804 originally supplied (no longer available from vendor). Requires replacement of mounting bracket (W11543). Existing brackets can be modified to accept 105A alternator by grinding enough material (approx. 1/16" - 1/8") from the bottom of the mounting plates to clear the larger alternator body.

² Replaces 8T24 originally supplied.

³ 30 Amp breaker replaces E20434 50 Amp breaker 10/9/95.

⁴ Motor 006747 replaced 014359 supplied until 11/08. .25HP motor directly replaces .49HP motor P04140 (Owosso #PR-4P07Q). Requires two rubber boots (P03807) to protect external motor terminals.

⁵ Replaces Leeson motor #S.I. 2917-A (10/01) and Owosso motor #PV-28147Q originally supplied (12/00).

⁶ Bosch motor P09955 replaced by vendor with Iskra motor 1/06. Brush kit P09585 no longer available to service Bosch motor. Replace motor using kit 052807 ([See Form #1578](#) for applicable discount information). Use Brush Kit 038682 to service Iskra motor.

⁷ Replaces A20428 originally supplied before 4/99. New assembly includes LED indicator lights for easier troubleshooting. Modularized components and surface mount technology improve durability and power capability.

⁸ Saleable service assembly created which includes 014765 3-wire switch and crimped terminals (7/97). 014765 3-wire switch directly replaces P12735 2-wire switch (4/97).

⁹ Solenoid Kit 016371 replaces Solenoid 015470. Kit includes solenoid and replacement instructions. If replacing original P09595 100 amp solenoid, order retrofit kit 015783.

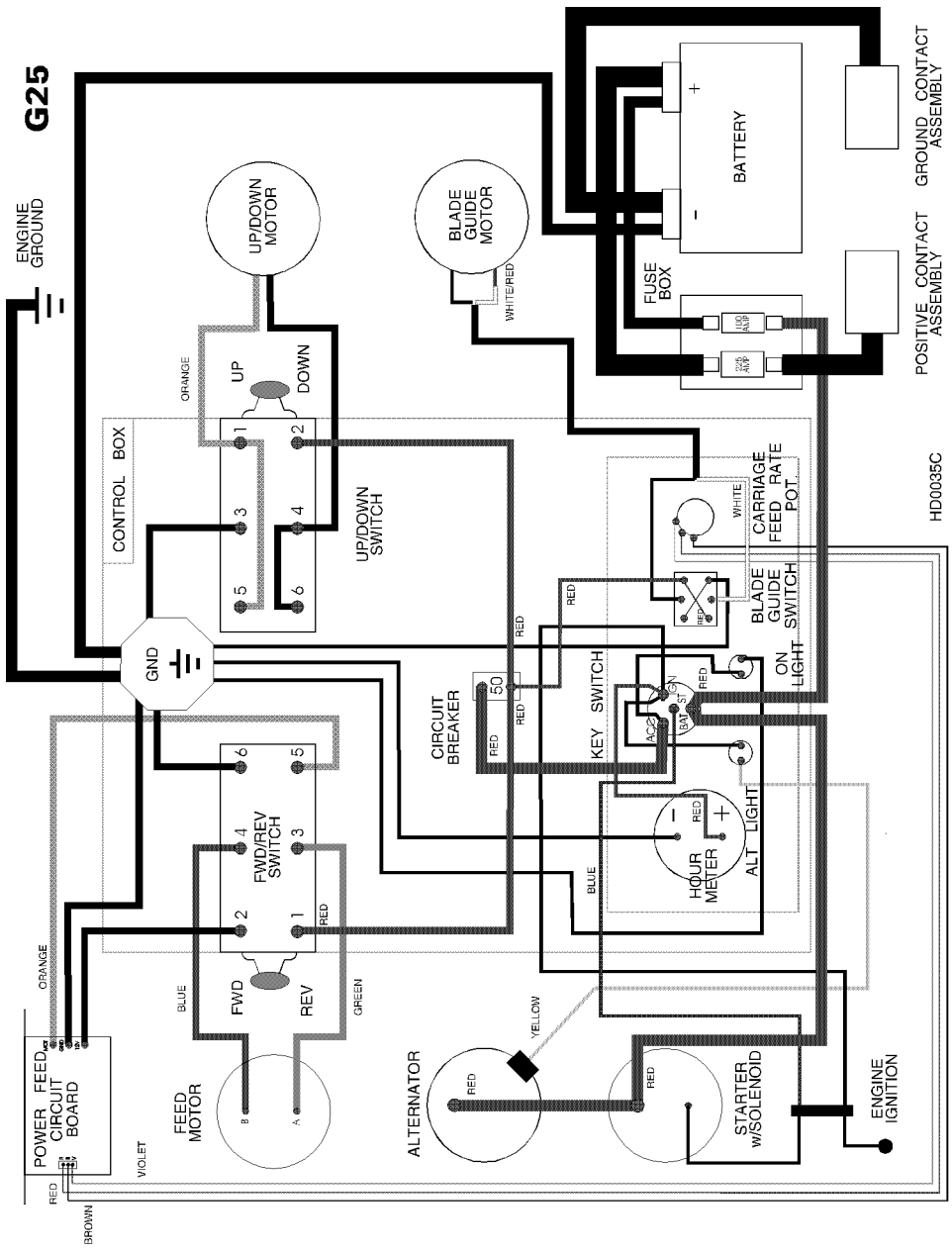
5.3 Battery Specifications, LT30HD/LT40HD G25

Group No.	Type No.	Performance Level		Approximate Weight	Maximum Overall Dimensions		
		Cranking Performance	Reserve Capacity	Wet	Length	Width	Height
24	DP24M ¹	515CC	---	39.0 lb. (17.7 kg)	10.75 in. (273 mm)	6.75 in. (171 mm)	9.875 in. (251 mm)

TABLE 5-1

¹ Replaces 8T24 originally supplied.

5.4 Wiring Diagram, LT30HD/LT40HD G25



NOTE: Black Wires Not Labeled With Color Designations

FIG. 5-2

G25 Engine

Safety, Operation, Maintenance & Parts Manual

LT30	rev. F7.00 - J7.04
LT40	rev. F8.00 - J9.01
LT30HD	rev. G1.00 - J8.05
LT40HD	rev. G1.00 - J9.07



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

January 2004

Form #825

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	<i>LT30 Rev. G8.00+</i>	
	<i>LT40 Rev. G9.00+</i>	
	<i>LT30HD Rev. H2.00+</i>	
	<i>LT40HD Rev. H2.00+</i>	
3.2	Fuel Tank.....	3-2
	<i>LT30 Rev. F7.00 - G7.00</i>	
	<i>LT40 Rev. F8.00 - G8.00</i>	
	<i>LT30HD Rev. G1.00 - H1.00</i>	
	<i>LT40HD Rev. G1.00 - H1.00</i>	
3.3	Engine Mount Assembly.....	3-4
3.4	Engine Assembly.....	3-5
3.5	Alternator Assembly.....	3-7
	<i>LT30 Rev. J1.00+</i>	
	<i>LT40 Rev. J2.00+</i>	
	<i>LT30HD/40HD Rev. J4.00+</i>	
3.6	Alternator Assembly.....	3-9
	<i>LT30 Rev. F7.00 - H9.00</i>	
	<i>LT40 Rev. F8.00 - J1.00</i>	
	<i>LT30HD/40HD Rev. G7.00 - J3.02</i>	
3.7	Engine Pulley Guards.....	3-11

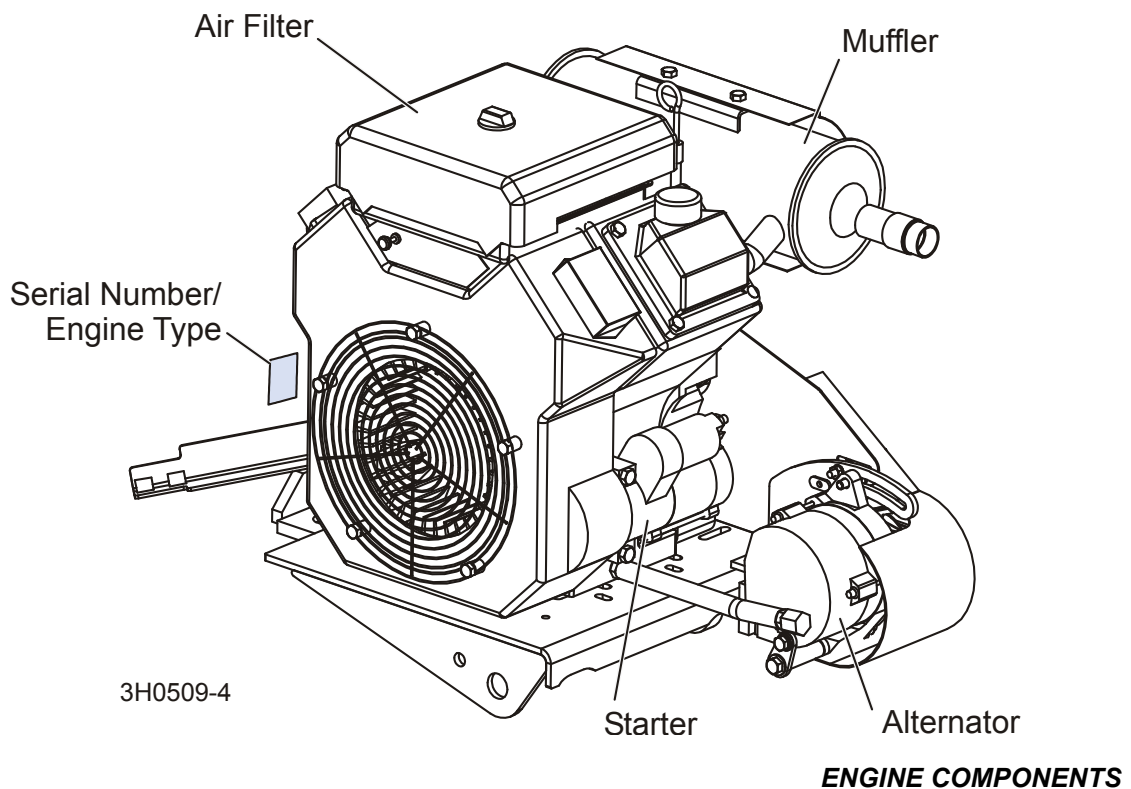
ABOUT THIS MANUAL

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.







SECTION 1 OPERATION

1.1 Starting The Engine

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.
- 
-  *Key Switch Indicator*: Lights up when the key is in either the on or accessory (#1 or #3) position.
- 

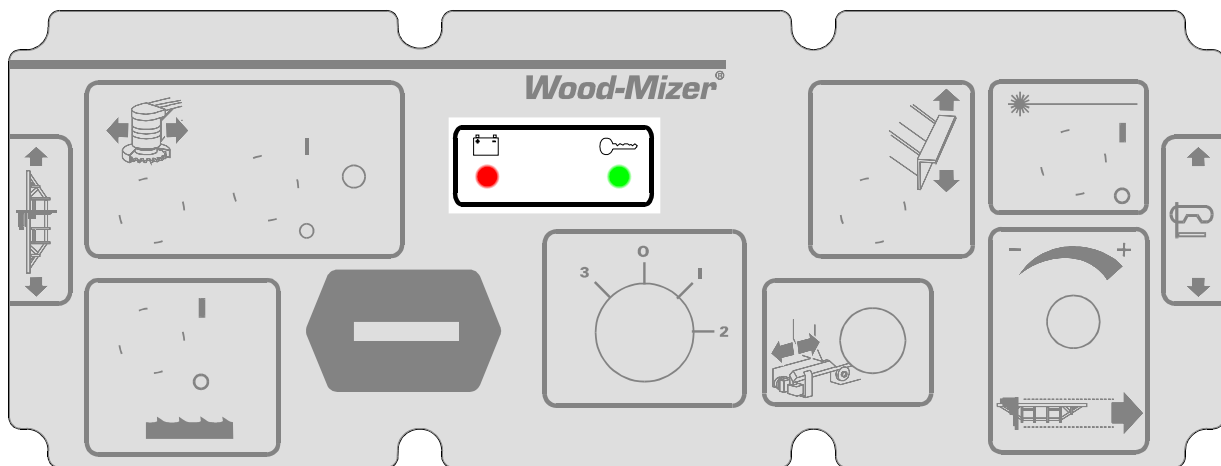


FIG. 1-1

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! Be sure the power feed switch is in the neutral position before turning the key switch to the on (#1) or accessory (#3) position. This prevents accidental carriage movement, which may cause serious injury or death.

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.

Turn the key switch to the start (#2) position and release.

If the engine needs choking to start, pull the choke cable out until the engine starts. Push the choke wire in after the engine starts.

For more information, see the engine manufacturer's operation manual.

If the fuel tank was recently filled or replaced, squeeze the primer bulb once or twice before trying to start the engine. **NOTE:** If pumping problems are experienced, make sure the out-flow end of the hose line is connected to the fuel filter. If pumping problems are still experienced, hold the primer bulb in a vertical position while squeezing. This allows the fuel check valve to operate properly.

NOTE: When the clutch handle is engaged, an accelerator pump is activated which supplies fuel to the engine carburetor. To avoid flooding the carburetor and possibly fouling the spark plugs, do not engage the clutch lever repeatedly without the engine running.

Engine Shutoff

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.





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


-  Wash the engine or brush off sawdust and debris every 50 hours of operation. Clean the grass screen, cooling fins, and external surfaces. Remove any dust, dirt or oil. See engine manual for further instructions.


2.3 Air Filter & Pre-Cleaner

 **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.


-  Service the pre-cleaner every four hours of operation. Service by gently shaking excess sawdust and debris from the foam piece.

-  Clean the air filter (air cleaner element) and pre-cleaner (element wrapper) every eight hours of operation. See the engine manual for further instructions.

-  Replace the air filter (cleaner) every 200 hours of operation.

-  Replace the pre-cleaner (element wrapper) every 2000 hours of operation.

2.4 Fuel Filter

-  Replace the fuel filter every 100 hours of operation or as required for engine performance.

2.5 Battery



Check the battery electrolyte level every 50 hours of operation. See manufacturer's manual 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

2.6 Alternator Belt



Adjust the alternator belt as needed. Check the alternator belt for tension and wear when battery is not charging properly or when the alternator belt is squealing. To tighten the belt, loosen the adjustment bolt and lock washer. Pivot the alternator away from the motor until the belt has 3/16" (5 mm) deflection with a 5 lb. deflection force. Retighten the adjustment bolt.

See Figure 2-1.

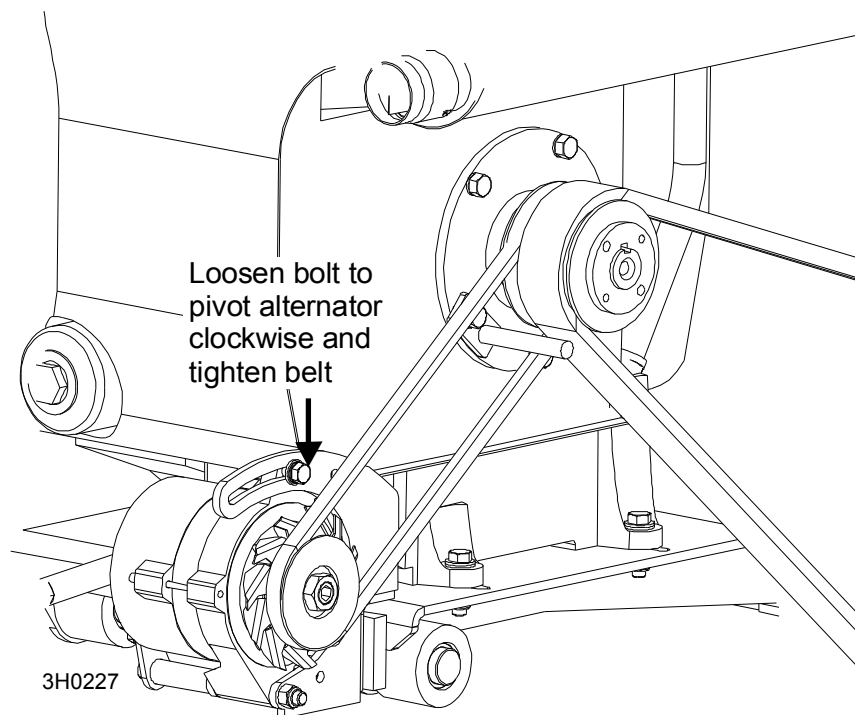


FIG. 2-1

2.7 RPM Adjustments



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

200

Check the RPM with a tachometer after the first 20 hours of operation and every 200 hours thereafter.

See Table 2-1.

Engine	High End RPM	Low End RPM
G25	3750	1800

TABLE 2-1

Before checking the RPM, make sure belt and brake strap tensions are correct (See Saw-mill 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. Check that the cable spring, cable guide, cable, and throttle brackets are aligned. **NOTE:** It is important that the above components are aligned. Proper alignment allows any slack in the cable (when engine is idling) to slide down into the cable spring. This maintains free operation of the cable and prevents the cable from kinking. Make sure the shoulder bolt does not rub against the crankcase vent tube.

1. Start the engine to measure the low-end RPM.
2. Refer to the engine manual to adjust the low-end RPM.
3. Engage the clutch handle to throttle the engine and measure the high-end RPM. The high-end RPM is factory-set at 3750. Readjust the throttle cable if necessary to increase or reduce the high-end engine speed.

The throttle cable should be tensioned just enough so that the engine revs as soon as the clutch/brake handle is engaged. **NOTE:** A properly adjusted throttle will extend the cable spring 1/4" to 3/8" (6.4 - 9.5 mm) when running and have a slight amount of slack in the cable when idling.

2.8 Miscellaneous Maintenance

50

Clean and inspect the spark arresters every 50 hours of operation. Replace if damaged.

100

Inspect the spark plugs every 100 hours of operation. Remove any deposits and adjust gap if necessary. See engine manual for further information.



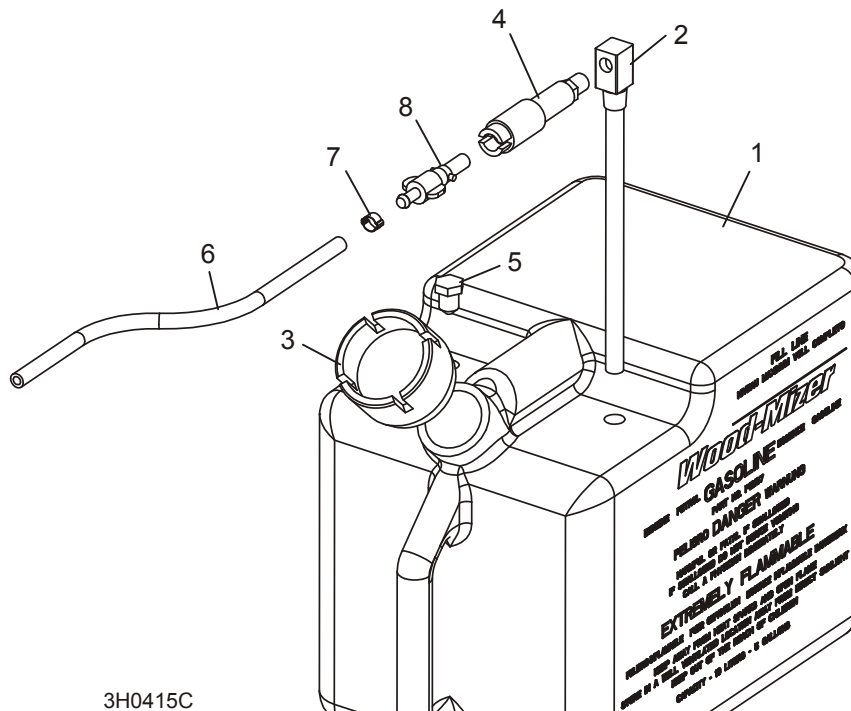
CAUTION! Do not remove the plug wire to check for electrical spark. Damage to the ignition circuit will result.

SECTION 3 REPLACEMENT PARTS

3.1 Fuel Tank

LT30
LT40
LT30HD
LT40HD

Rev. G8.00+
Rev. G9.00+
Rev. H2.00+
Rev. H2.00+



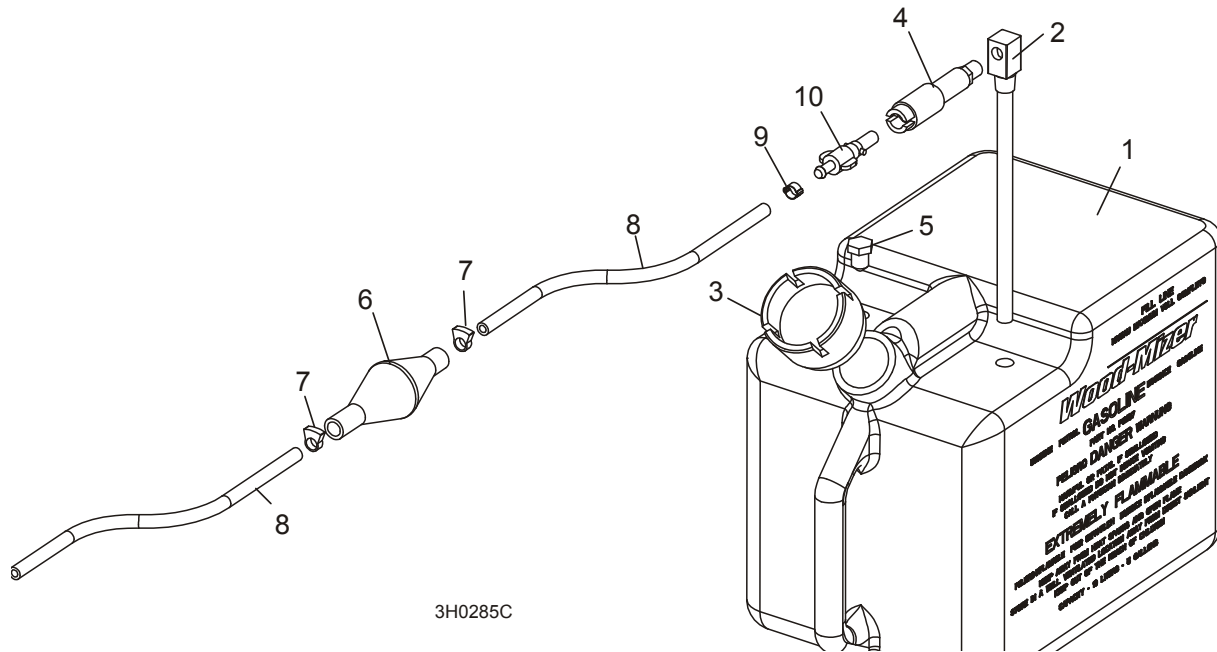
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	TANK ASSEMBLY, 5-GALLON RED GASOLINE	A12285	1	
1	Tank, 5-Gallon Red Fuel	P12167	1	◆
2	Pickup, 9" Fuel	P12172	1	
3	Cap, 3 or 5-Gallon Fuel Tank	P09683	1	
4	Fitting, 1/4" NPT Plastic Female Disconnect	P12175	1	
5	Fitting, 3/8" NPT Hex Plug	P10367 ¹	1	
6	HOSE, 1/4" ID FUEL	P642	6.5 Ft	
7	CLAMP, 7/32 - 1/2 HOSE	P649	2	
8	FITTING, 1/4" NPT PLASTIC MALE DISCONNECT	P12176 ²	1	

¹ Plug fitting P10367 added 11/03. Hole added to fuel tank to accommodate return line for fuel injected engines.

² Replacement requires qty. 1 hose clamp (P649).

3.2 Fuel Tank

LT30 Rev. F7.00 - G7.00
 LT40 Rev. F8.00 - G8.00
 LT30HD Rev. G1.00 - H1.00
 LT40HD Rev. G1.00 - H1.00



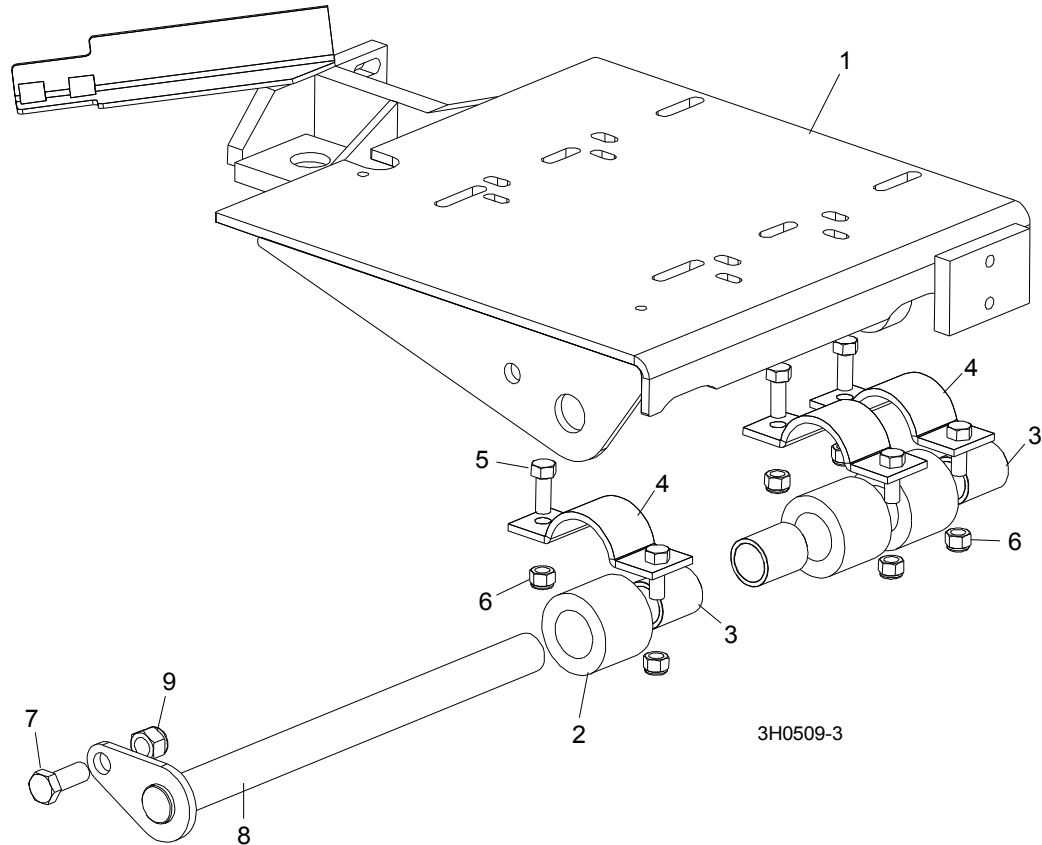
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.
	TANK ASSEMBLY, 5-GALLON RED GASOLINE	A12285	1
1	Tank, 5-Gallon Red Fuel	P12167	1 ◆
2	Pickup, 9" Fuel	P12172	1
3	Cap, 3 or 5-Gallon Fuel Tank	P09683	1
4	Fitting, 1/4" NPT Plastic Female Disconnect	P12175	1
5	Fitting, 3/8" NPT Hex Plug	P10367 ¹	1
	HOSE, FUEL LINE W/PRIMER BULB	014497	1
	Bulb Kit, Fuel Primer Replacement	014496	1
6	Bulb, Fuel Primer	014481	1 ◆
7	Clamp, 7/32 - 1/2 Hose	P649 ²	2
	Instruction Sheet, Fuel Primer Bulb Replacement	014496-590	1
8	Hose, 1/4" ID Fuel	P642 ²	6.5 Ft
9	Clamp, 7/32 - 1/2 Hose	P649 ²	2
10	FITTING, 1/4" NPT PLASTIC MALE DISCONNECT	P12176 ³	1

¹ Plug fitting P10367 added 11/03. Hole added to fuel tank to accommodate return line for fuel injected engines.

² P642 fuel hose replaces R01890-1 used prior to LT30 Rev. G3.02, LT40 Rev. G4.02, and LT30HD/40HD Rev. G6.02. Use clamp P649 with new hose (replaces 015584, P12374 and 016040 used with old fuel hose).

³ Replacement requires qty. 1 hose clamp (P649).

3.3 Engine Mount Assembly



REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	MOUNT KIT, KOHLER ENGINE	016319 ¹	1	
1	Mount Weldment, Kohler Engine	014514	1	◆
	BUSHING ASSEMBLY, MOTOR MOUNT	016380 ²	3	
2	Bushing, 2" OD x 2"	016378	1	◆
3	Bearing, 1" x 1 1/4" x 2"	016379	1	◆
4	CLAMP WELDMENT, MOTOR MOUNT PIVOT BUSHING	014540	3	
5	BOLT, 3/8-16 X 1" HEX HEAD	F05007-7	3	
6	NUT, 3/8-16 HEX NYLON LOCK	F05010-10	6	
7	BOLT, 1/2-13 X 1 1/4" HEX HEAD GRADE 5	F05008-37	1	
8	PIN WELDMENT, ENGINE MOUNT PIVOT	014154	1	
9	NUT, 1/2-13 NYLON LOCK	F05010-8	1	

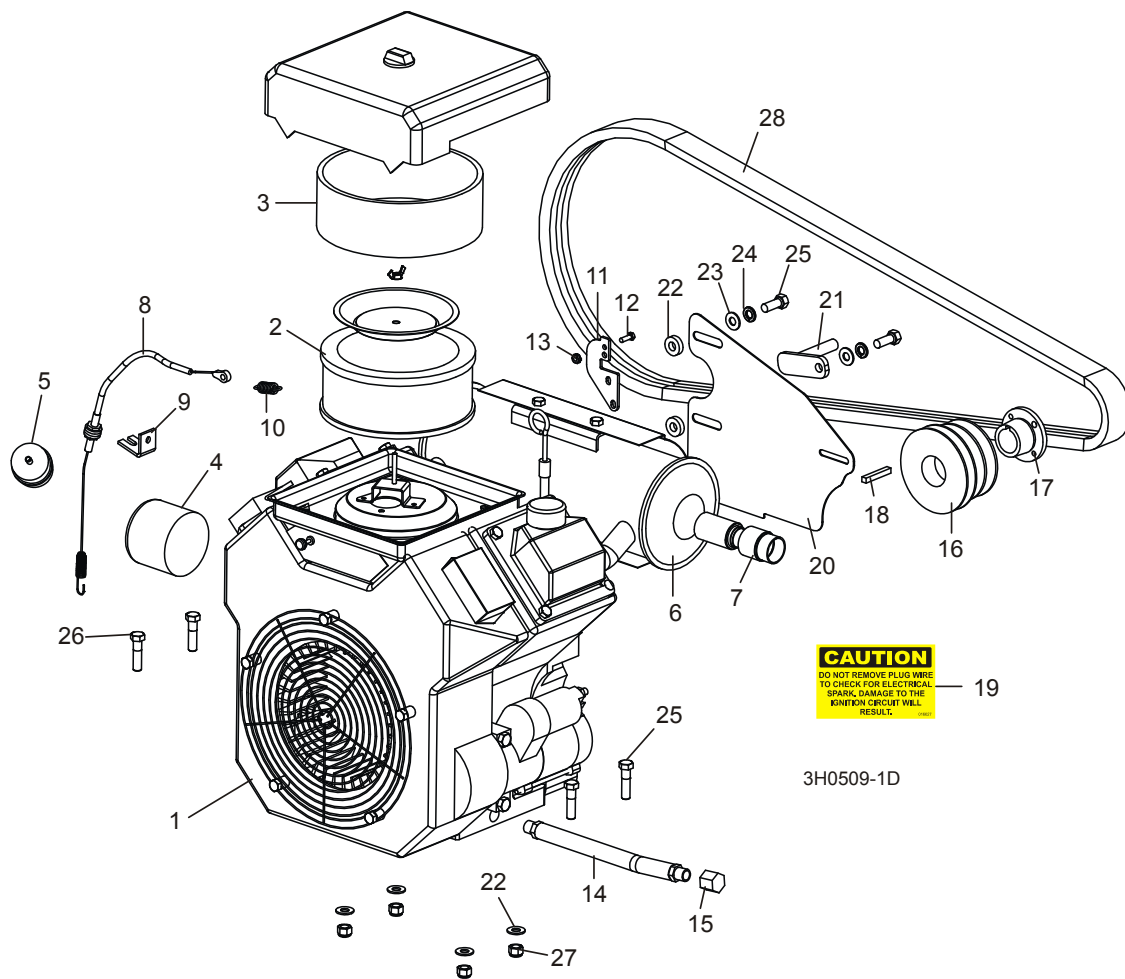
¹ Mount Kit 016319 includes new rubber clutch handle mount bushings and hardware standard on LT30 Rev. G9.00, LT40 Rev. H1.00 and LT30HD/40HD Rev. H3.00 (See Clutch Mount parts in Sawmill Parts Manual).

² New assembly 016380 replaces original rubber pivot bushing P12164 and bronze bushing P05041 supplied prior to LT30 Rev. H2.00, LT40 Rev. H3.00 and LT30HD/40HD Rev. H5.00. NOTE: When replacing original components with new assembly, it is best to replace all three assemblies at the same time.

3 Replacement Parts

Engine Assembly

3.4 Engine Assembly



REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	COVER, ENGINE	P12393	1	
	ENGINE ASSEMBLY, 25HP KOHLER	015955	1	
1	Engine, 25HP Kohler CH740	074352 ¹	1	◆
	Gasket Kit, Kohler CH25 Head #24-757-31	016290 ²	1	
	Filter Kit, Kohler Air/Pre #24-883-03-S1	P12734	1	
2	Filter, Kohler Air #24-083-03	P12736	1	◆
3	Pre Cleaner, Kohler #24-083-05	P12737	1	◆
	Plug, RC12YC Kohler Spark #12-132-02	P12757	2	
	Module Kit, Kohler Ignition #KH24-584-11 (Qty. 2)	016079	1	
4	Filter, Kohler Oil #52-050-02	014717 ³	1	
5	Filter, Kohler Fuel #24-050-13	P12758 ⁴	1	
	Starter, Kohler Engine KH# 25 098 21S	061371	1	
	Pump, Kohler Fuel #24-393-16S	048391	1	

	Muffler Assembly, Kohler 25HP Engine	016206 ⁵	1	
6	Muffler, Kohler #24-786-12	016207	1	◆
7	Arrestor, Kohler Spark #25-189-01	016142 ⁶	1	
8	Cable, 18" Throttle	P12313	1	
	Spring, Throttle	016033	1	
9	Bracket, Throttle Cable Mount	S12312	1	
10	Spring, .5" x .08" x 1 3/8" Extension	015952	1	
11	Bracket, G25 Throttle	015964	1	
12	Bolt, #10-24 x 5/8" Hex Head	F05004-18	1	
13	Nut, #10-24 Self-Locking	F05010-14	1	
14	Hose, 7" Oil Drain	P10082	1	
15	Cap, Oil Drain 3/8" Pipe	P04332	1	
	Oil, 10W30 Type CD	L04869-1	.5 Gal	◆
16	Pulley, 3-Groove Motor	S10435	1	
17	Bushing, 1 1/8" Split Taper	P04306	1	
18	Key, 1/4" x 1/4" x 1 11/16"	S04124 ⁷	1	
19	Decal, Kohler Spark Caution	016027 ⁸	2	
	CARBURETOR KIT, KOHLER ANTI-ICING #24-755-65	016023 ⁹	1	
	SOLENOID, FUEL SHUT OFF 24-757-01-S	061303	1	
20	PLATE, G25 REAR ENGINE GUARD	015900	1	
	BRACKET ASSEMBLY, DRIVE BELT SUPPORT SINGLE-PRONG	A12243	1	
21	Bracket Weldment, Drive Belt Support Painted	015963 ¹⁰	2	◆
	Washer, 3/8" Split Lock	F05011-4	1	
	Instruction Sheet, Drive Belt Support Single-Prong	A12243-420	1	
22	SPACER, 7/8" O.D.	S12284	2	
23	WASHER, 3/8" SAE FLAT	F05011-3	6	
24	WASHER, 3/8" SPLIT LOCK	F05011-4	2	
25	BOLT, 3/8-16 X 1" HEX HEAD	F05007-7	2	
26	BOLT, 3/8-16 X 1 1/2" HEX HEAD GRADE 2	F05007-3	4	
27	NUT, 3/8-16 HEX NYLON LOCK	F05010-10	4	
28	BELT, 2BXF71 DRIVE	036163 ¹¹	1	
	BELT, 2BX72 DRIVE (G24 TO G25 CONVERSION KIT ONLY)	P09555-2	1	

¹ Replaced P12529 25Hp Kohler CH25 Engine following engine hp re-rating by Kohler (6/14).

² Available 4/99. Improved head gaskets and bolts eliminate leaking gaskets that may cause high oil consumption, smoking, power loss, and noise possible on Kohler engines with original gaskets and bolts (serial numbers 2719500001 - 2808099999).

³ Replaces P12738 (Kohler #12-050-01) filter originally supplied before 8/98. Filters are interchangeable.

⁴ Kohler #24-050-13 9-12 micron filter replaces #240-050-10 8-10 micron filter originally supplied.

⁵ Available 11/98.

⁶ Replaces Kohler #24-189-01 used prior to 8/98. Previous arrestor directed exhaust on Debarker option gear motor.

⁷ 1-11/16" key replaces 1 1/4" or 2" key originally supplied.

⁸ Decal added 3/98.

⁹ Warms air entering carburetor to prevent ice buildup in throttle valve and venturi walls. This usually occurs in high humidity when temperatures drop just below freezing.

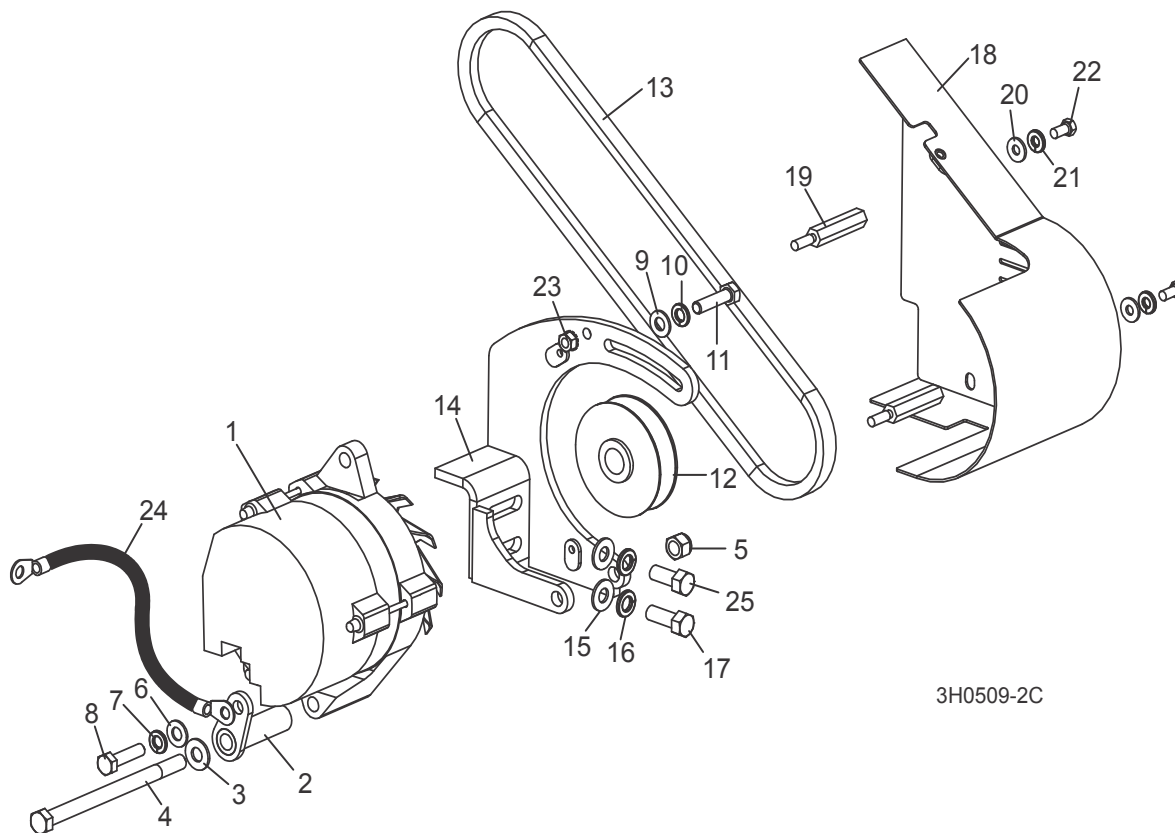
¹⁰ Drive Belt Support Bracket 015963 replaces support bracket W12237 originally supplied prior to LT30 Rev. G3.00, LT40 Rev. G4.00 and LT30HD/LT40HD Rev. G7.00. New bracket weldment provides improved belt support.

3 Replacement Parts

Alternator Assembly

3.5 Alternator Assembly

LT30 Rev. J1.00+
 LT40 Rev. J2.00+
 LT30HD/40HD Rev. J4.00+



3H0509-2C

REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.
1	ALTERNATOR, 12V 105A	050287 ¹	1
2	BRACE, ALTERNATOR	W12761	1
3	WASHER, 3/8" SAE FLAT	F05011-3	1
4	BOLT, 3/8-16 X 5 1/2" HEX HEAD FULL THREAD	F05007-34	1
5	NUT, 3/8-16 HEX NYLON LOCK	F05010-10	1
6	WASHER, 5/16" SAE FLAT	F05011-17	1
7	WASHER, 5/16" SPLIT LOCK	F05011-13	1
8	BOLT, M8 X 1.25" X 1" HEX HEAD FULL THREAD	F05004-40	1
9	WASHER, 5/16" SAE FLAT	F05011-17	1
10	WASHER, 5/16" SPLIT LOCK	F05011-13	1
11	BOLT, M8 X 1.25" X 1" HEX HEAD FULL THREAD	F05004-40	1
12	PULLEY, ALTERNATOR	P03806	1
13	BELT, A33 ALTERNATOR	P11542	1
	WIRE ASSEMBLY, G25 ALTERNATOR/STARTER	024308	1
	WIRE ASSEMBLY, 61/105 AMP ALTERNATOR PLUG	015969	1

14	BRACKET, ALTERNATOR MOUNT	014509	1	
15	WASHER, 3/8" SAE FLAT	F05011-3	2	
16	WASHER, 3/8" SPLIT LOCK	F05011-4	2	
17	BOLT, 3/8-16 X 1" HEX HEAD	F05007-7	2	
18	GUARD, ALTERNATOR BELT	014499	1	
19	STANDOFF, 1/4-20 X 1 7/8"	015957	2	
20	WASHER, 1/4" SAE FLAT	F05011-11	2	
21	WASHER, 1/4" SPLIT LOCK	F05011-14	2	
22	BOLT, 1/4-20 X 1/2" HEX HEAD	F05005-15	2	
23	NUT, 1/4-20 SELF-LOCKING HEX	F05010-9	1	
24	WIRE ASSEMBLY, GROUND JUMPER	017770 ²	1	

¹ 105A alternator 050287 replaces 61A alternator P03804 on LT30 Rev. J1.00, LT40 Rev. J2.00 and LT30HD/40HD Rev. J4.00 and later.

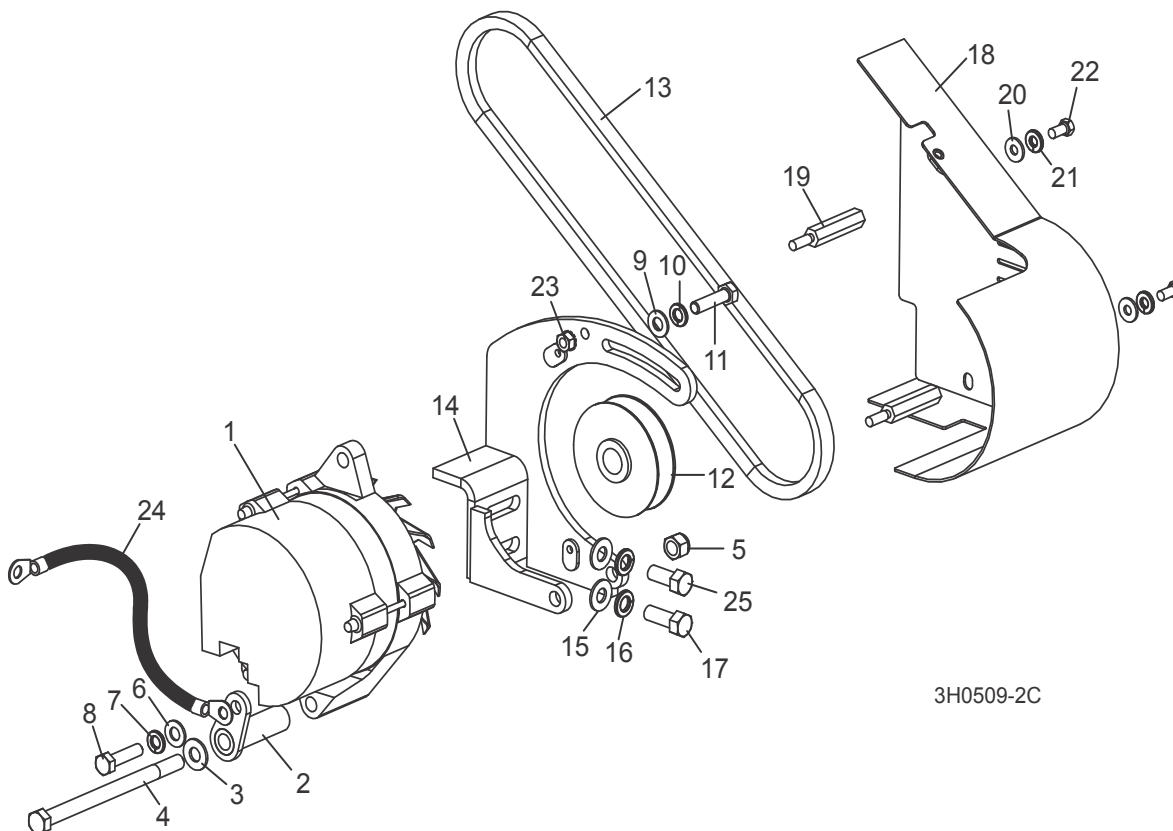
² Jumper wire added to improve ground contact (LT30 Rev. J3.00, LT40 Rev. J4.00 and LT30HD Rev. J4.00 and LT40HD Rev. J5.00).

3 Replacement Parts

Alternator Assembly

3.6 Alternator Assembly

LT30 Rev. F7.00 - H9.00
 LT40 Rev. F8.00 - J1.00
 LT30HD/40HD Rev. G7.00 - J3.02



REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.
	KIT, ALTERNATOR WITH BRACE	K12801 ¹	1
1	Alternator, 105A 12V	050287 ¹	1
2	Brace, Alternator	W12761	1
3	Washer, 3/8" SAE Flat	F05011-3	1
4	Bolt, 3/8-16 x 5 1/2" Hex Head Full Thread	F05007-34	1
5	Nut, 3/8-16 Hex Nylon Lock	F05010-10	1
6	Washer, 5/16" SAE Flat	F05011-17	1
7	Washer, 5/16" Split Lock	F05011-13	1
8	Bolt, M8 X 1.25" X 1" Hex Head Full Thread	F05004-40	1
9	WASHER, 5/16" SAE FLAT	F05011-17	1
10	WASHER, 5/16" SPLIT LOCK	F05011-13	1
11	BOLT, M8 X 1.25" X 1" HEX HEAD FULL THREAD	F05004-40	1
12	PULLEY, ALTERNATOR	P03806 ²	1
13	BELT, A33 ALTERNATOR	P11542	1

	WIRE ASSEMBLY, G25 ALTERNATOR/STARTER	024308	1	
	WIRE ASSEMBLY, 61/105 AMP ALTERNATOR PLUG	015969 ³	1	
14	BRACKET, ALTERNATOR MOUNT	014509 ¹	1	
15	WASHER, 3/8" SAE FLAT	F05011-3	2	
16	WASHER, 3/8" SPLIT LOCK	F05011-4	2	
17	BOLT, 3/8-16 X 1" HEX HEAD	F05007-7	2	
18	GUARD, ALTERNATOR BELT	014499	1	
19	STANDOFF, 1/4-20 X 1 7/8"	015957	2	
20	WASHER, 1/4" SAE FLAT	F05011-11	2	
21	WASHER, 1/4" SPLIT LOCK	F05011-14	2	
22	BOLT, 1/4-20 X 1/2" HEX HEAD	F05005-15	2	
23	NUT, 1/4-20 SELF-LOCKING HEX	F05010-9	1	
24	WIRE ASSEMBLY, G25 GROUND JUMPER	017770 ⁴	1	

¹ 105A Alternator 050287 replaces 61A alternator P03804 originally supplied (no longer available from vendor). Requires replacement of mounting bracket (014509).

² Pulley changed from 2" ID to 1 3/4" ID to prevent belt from bottoming out and slipping (2/98).

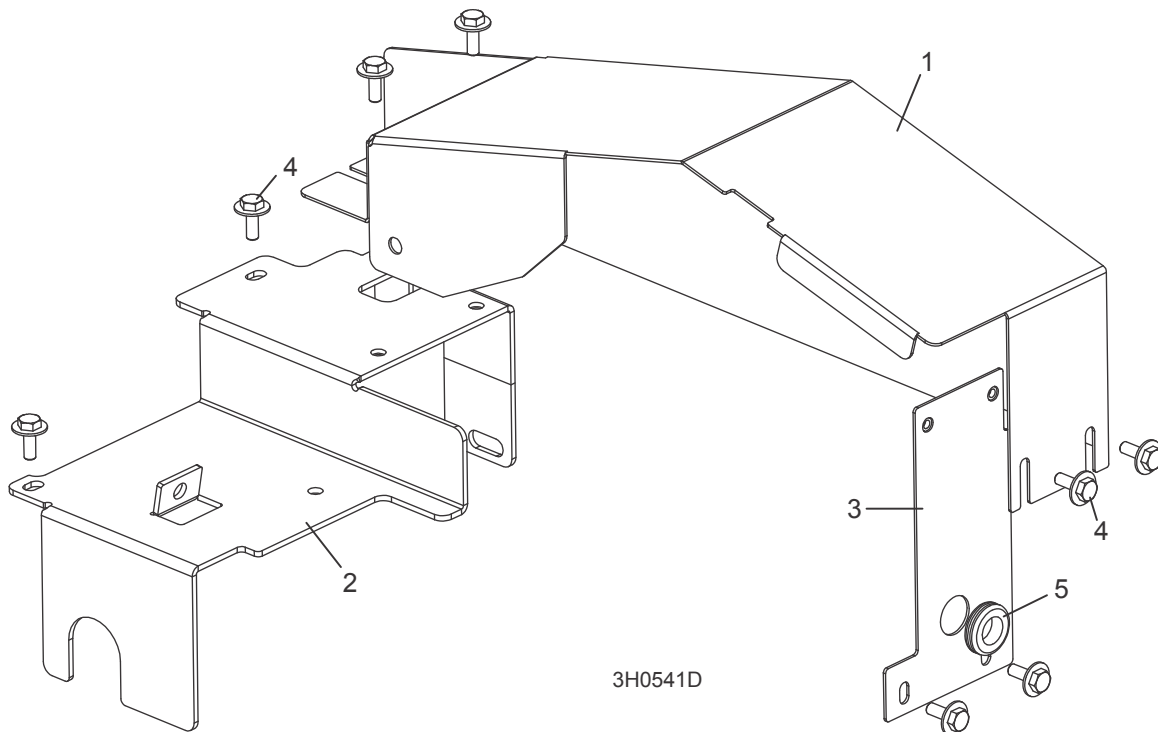
³ Plug housing seals added to harness LT30 Rev. G4.00, LT40 Rev. G5.00, LT30HD and LT40HD Rev. G7.00

⁴ Jumper wire added to improve ground contact (LT30 Rev. J3.00, LT40 Rev. J4.00 and LT30HD Rev. J4.00 and LT40HD Rev. J5.00).

3 Replacement Parts

Engine Pulley Guards

3.7 Engine Pulley Guards



REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
1	GUARD WELDMENT, KOHLER ENGINE PULLEY	015960	1	
2	GUARD, KOHLER SIDE ENGINE PULLEY	015962	1	
3	GUARD, KOHLER BOTTOM ENGINE PULLEY	015961	1	
4	BOLT, 1/4-20 X 3/4" HEX HEAD WITH CONICAL WASHER	F05005-134 ¹	8	
5	GROMMET, 5/8" ID RUBBER	P11764	1	

¹ Replaces 1/4-20 x 3/4" hex head bolt (F05005-1) and 1/4" SAE flat washer (F05011-11) originally supplied prior to LT30 Rev. G6.00, LT40 Rev. G7.00 and LT30HD/LT40HD rev. G9.00.