

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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Wood-Mizer

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Table of Contents	Section-Page
ABOUT THIS MANUAL	IV
SECTION 1 OPERATION	1-1
1.1 Starting The Engine.....	1-1
SECTION 2 MAINTENANCE	2-1
2.1 Safety.....	2-1
2.2 Cooling System.....	2-2
2.3 Air Filter & Pre-Cleaner.....	2-3
2.4 Fuel Filter.....	2-4
2.5 Battery.....	2-5
2.6 Alternator Belt.....	2-6
2.7 RPM Adjustments.....	2-7
2.8 Miscellaneous Maintenance.....	2-8
SECTION 3 REPLACEMENT PARTS	3-1
3.1 Fuel Tank.....	3-1
<i>LT30</i> <i>Rev. G8.00+</i>	
<i>LT40</i> <i>Rev. G9.00+</i>	
<i>LT30HD</i> <i>Rev. H2.00+</i>	
<i>LT40HD</i> <i>Rev. H2.00+</i>	
3.2 Fuel Tank.....	3-2
<i>LT30</i> <i>Rev. F7.00 - G7.00</i>	
<i>LT40</i> <i>Rev. F8.00 - G8.00</i>	
<i>LT30HD</i> <i>Rev. G1.00 - H1.00</i>	
<i>LT40HD</i> <i>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</i> <i>Rev. J1.00+</i>	
<i>LT40</i> <i>Rev. J2.00+</i>	
<i>LT30HD/40HD</i> <i>Rev. J4.00+</i>	
3.6 Alternator Assembly.....	3-9
<i>LT30</i> <i>Rev. F7.00 - H9.00</i>	
<i>LT40</i> <i>Rev. F8.00 - J1.00</i>	
<i>LT30HD/40HD</i> <i>Rev. G7.00 - J3.02</i>	
3.7 Engine Pulley Guards.....	3-11
INDEX	I

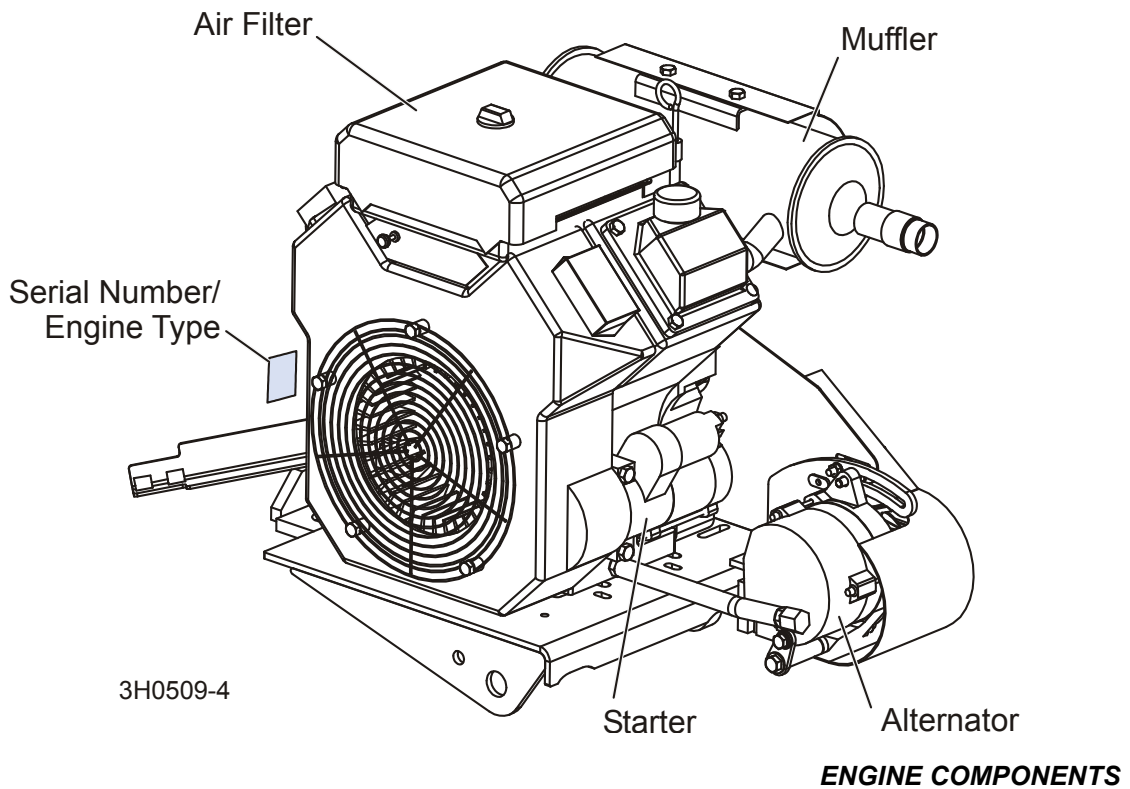
ABOUT THIS MANUAL

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 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.

4

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

8

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

200

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

2000

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.

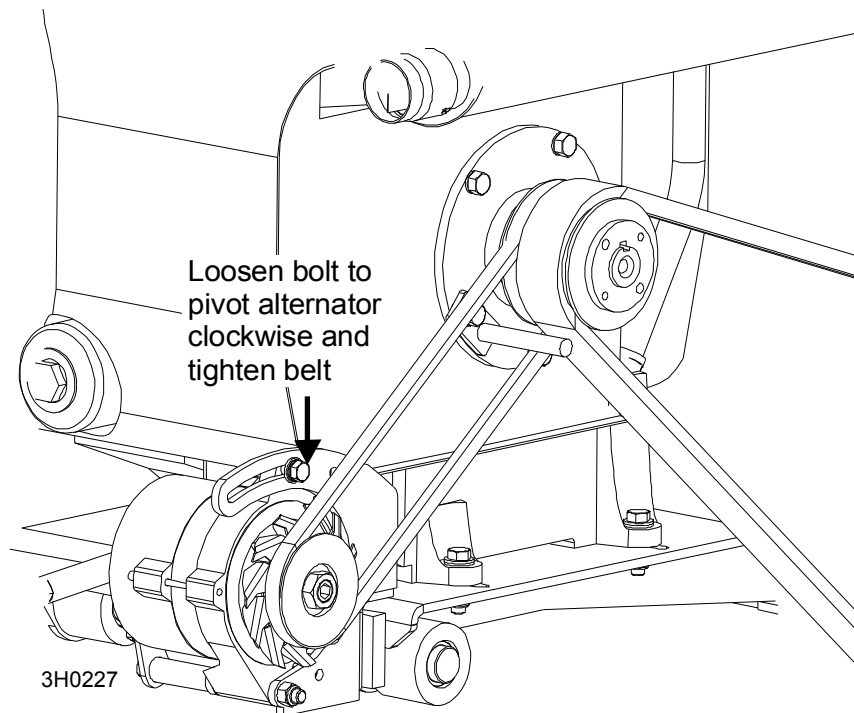


FIG. 2-1

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.



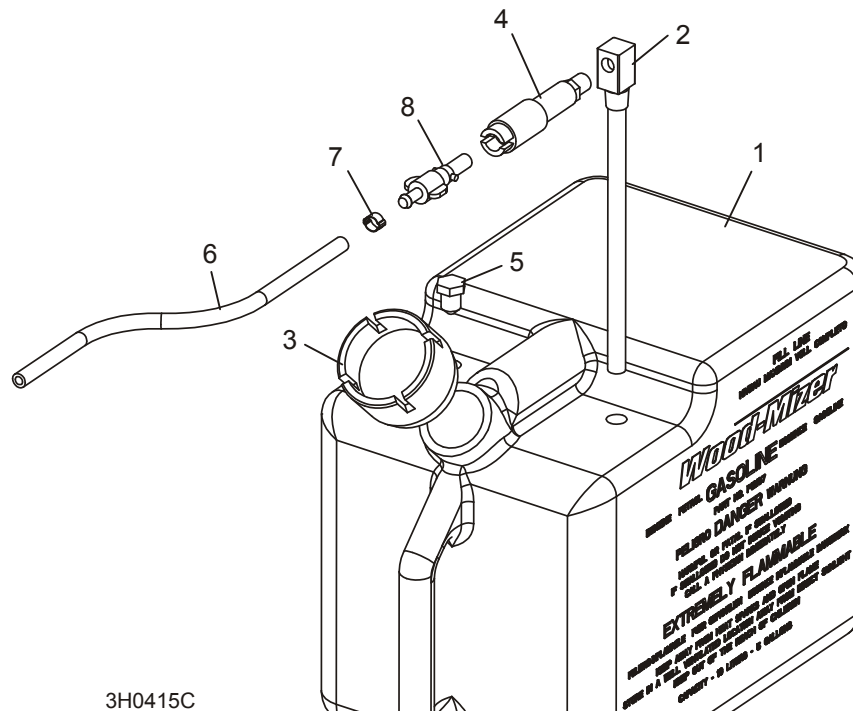
CAUTION! Do not remove the plug wire to check for electrical spark. Damage to the ignition circuit will result.

SECTION 3 REPLACEMENT PARTS

3.1 Fuel Tank

LT30
LT40
LT30HD
LT40HD

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



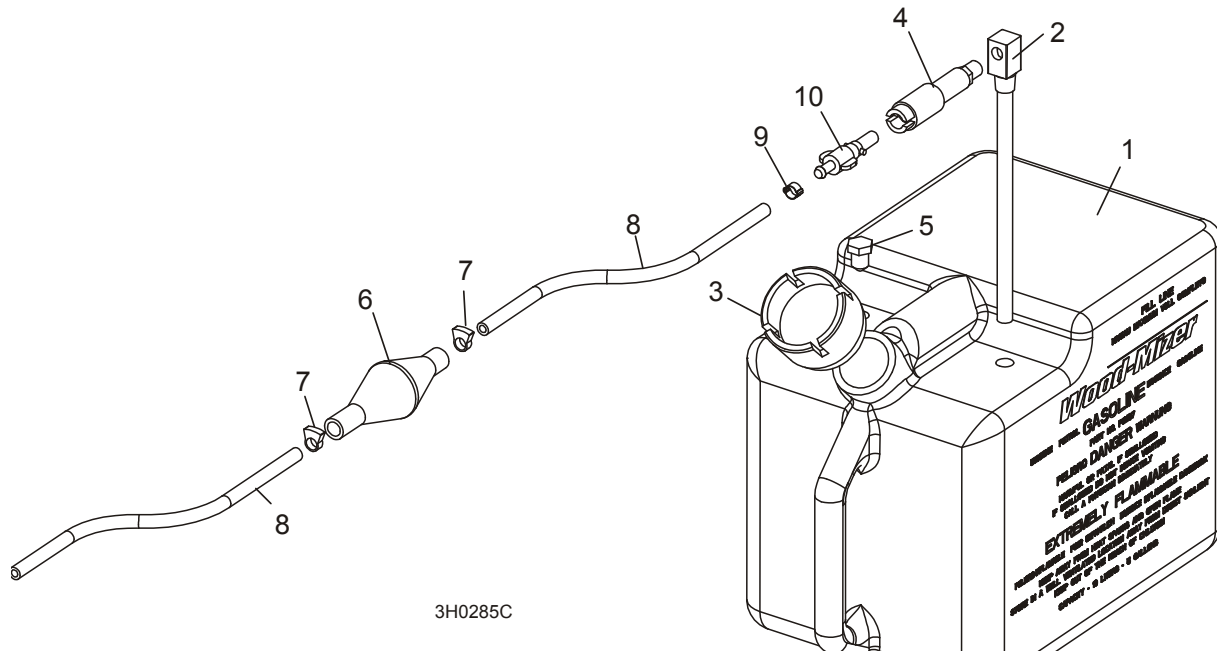
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	TANK ASSEMBLY, 5-GALLON RED GASOLINE	A12285	1	
1	Tank, 5-Gallon Red Fuel	P12167	1	◆
2	Pickup, 9" Fuel	P12172	1	
3	Cap, 3 or 5-Gallon Fuel Tank	P09683	1	
4	Fitting, 1/4" NPT Plastic Female Disconnect	P12175	1	
5	Fitting, 3/8" 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.

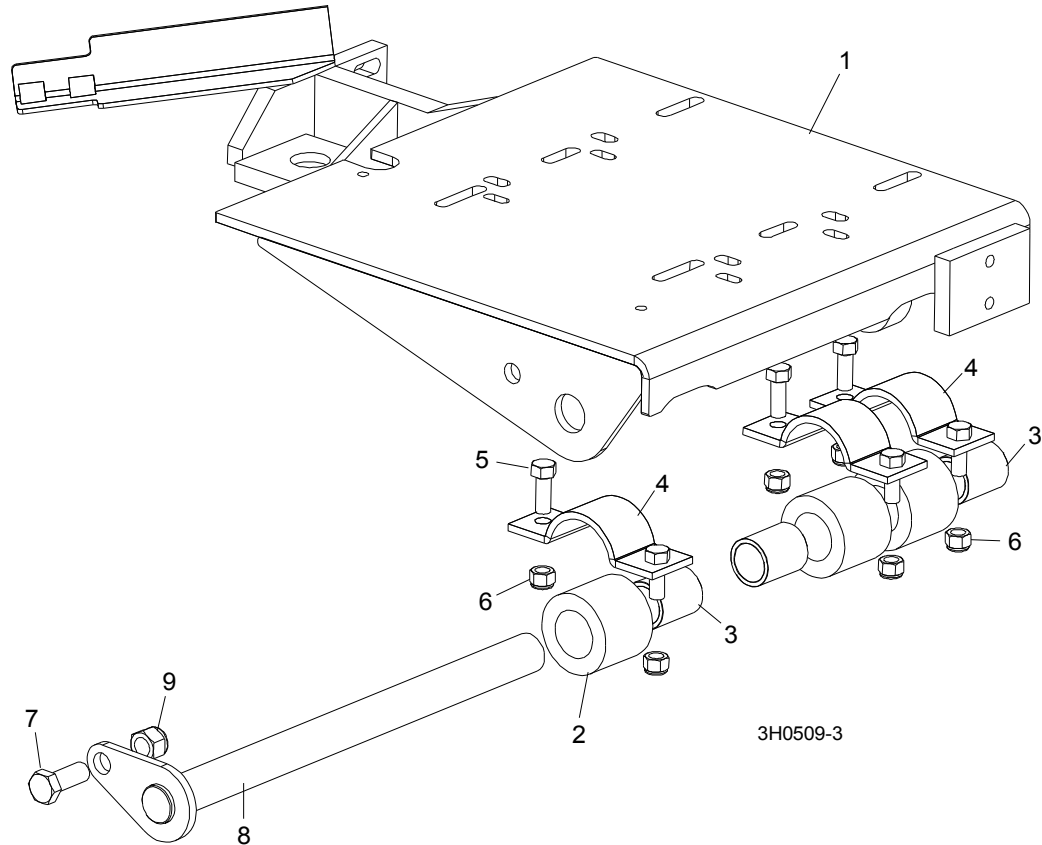
² P642 fuel hose replaces R01890-1 used prior to LT30 Rev. G3.02, LT40 Rev. G4.02, and LT30HD/40HD Rev. G6.02. Use clamp P649 with new hose (replaces 015584, P12374 and 016040 used with old fuel hose).

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

3 Replacement Parts

Fuel Tank

3.3 Engine Mount Assembly



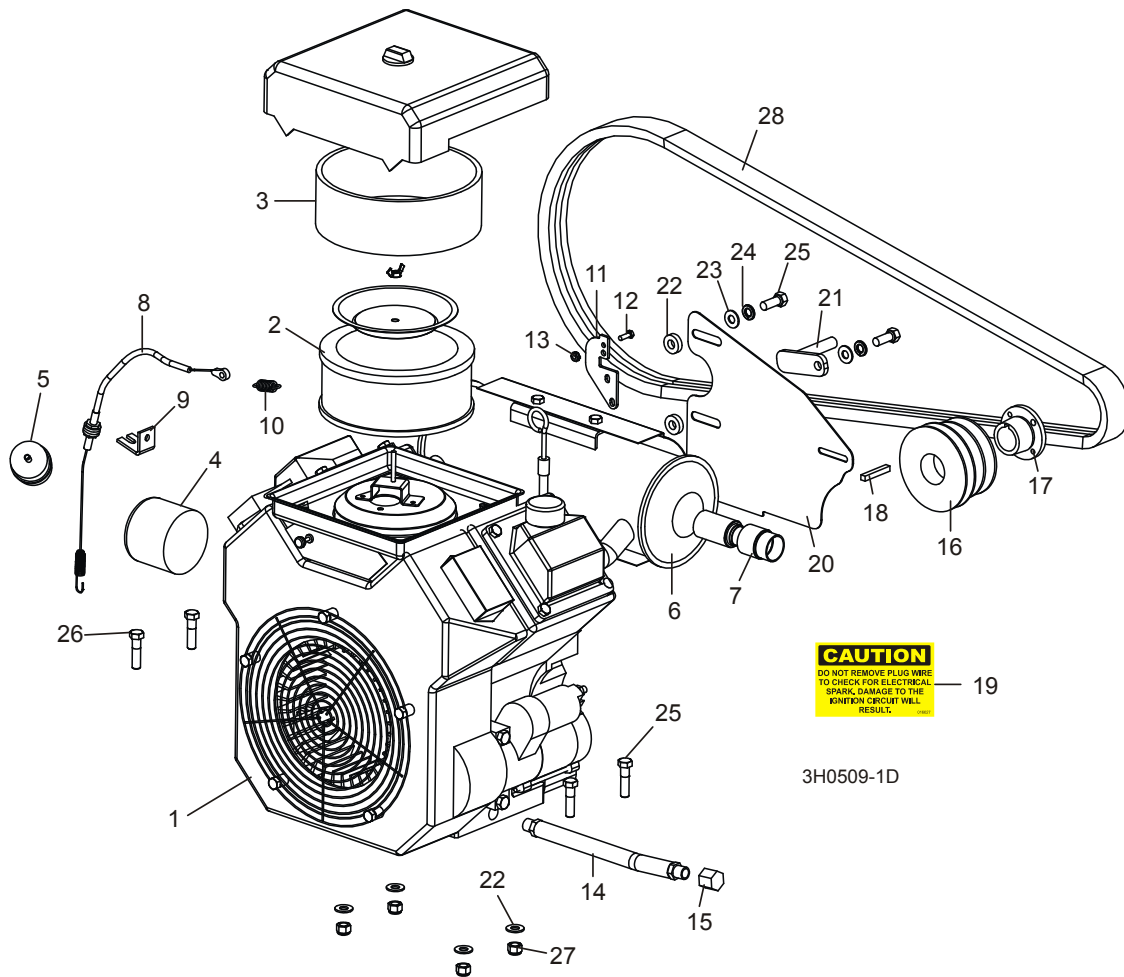
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	MOUNT KIT, KOHLER ENGINE	016319 ¹	1	
1	Mount Weldment, Kohler Engine	014514	1	◆
	BUSHING ASSEMBLY, MOTOR MOUNT	016380 ²	3	
2	Bushing, 2" OD x 2"	016378	1	◆
3	Bearing, 1" x 1 1/4" x 2"	016379	1	◆
4	CLAMP WELDMENT, MOTOR MOUNT 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.

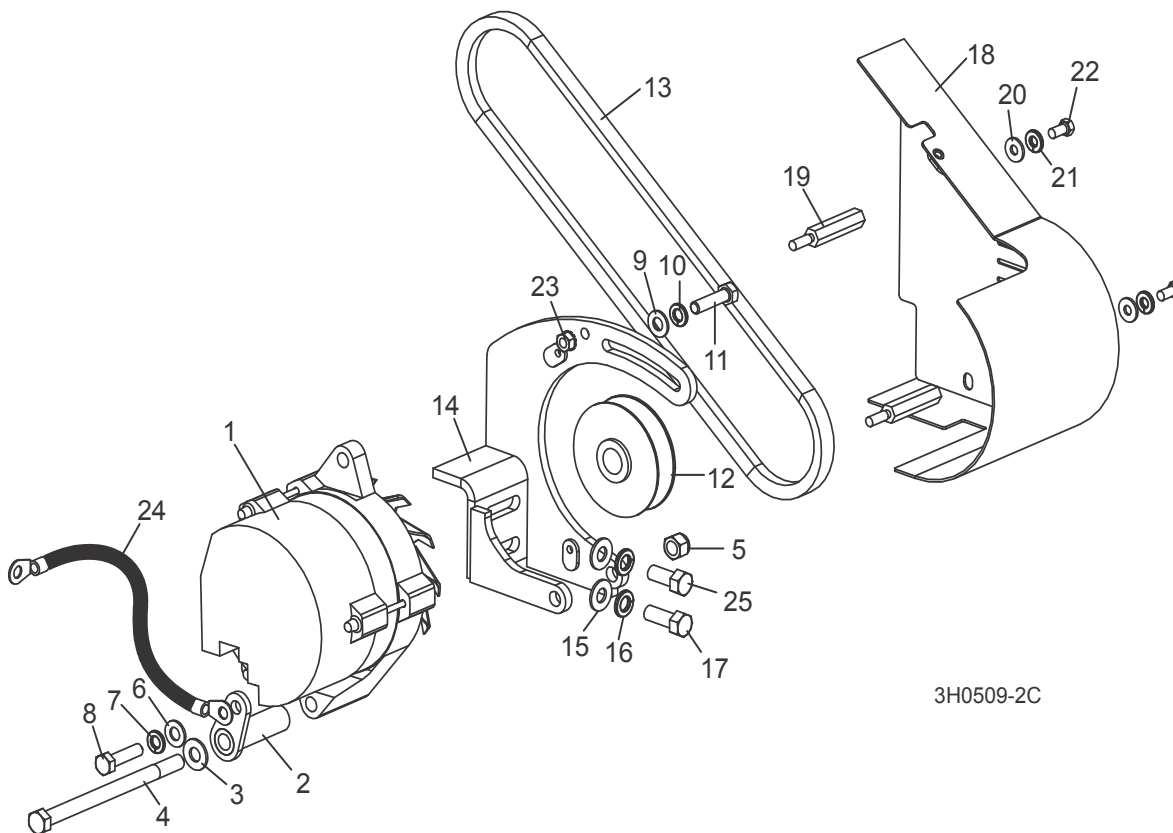
¹⁰ Drive Belt Support Bracket 015963 replaces support bracket W12237 originally supplied prior to LT30 Rev. G3.00, LT40 Rev. G4.00 and LT30HD/LT40HD Rev. G7.00. New bracket weldment provides improved belt support.

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.

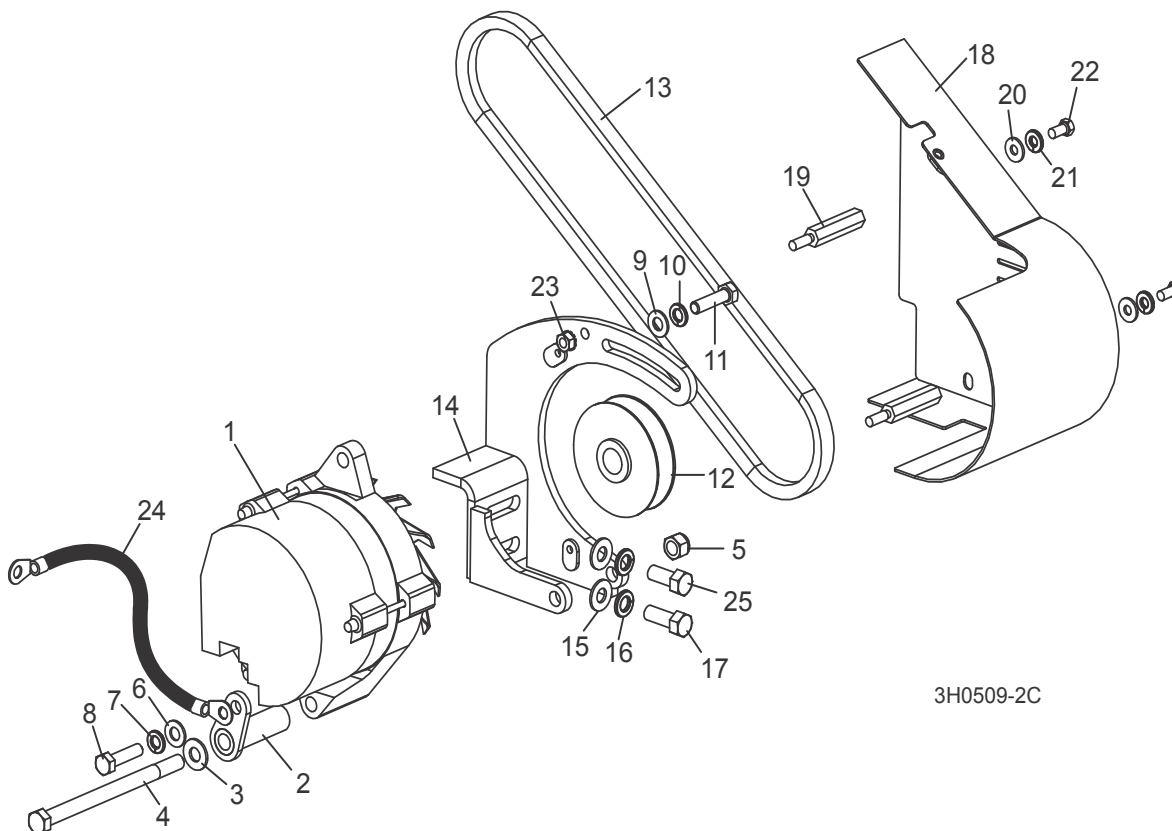
² Jumper wire added to improve ground contact (LT30 Rev. J3.00, LT40 Rev. J4.00 and LT30HD Rev. J4.00 and LT40HD Rev. J5.00).

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).

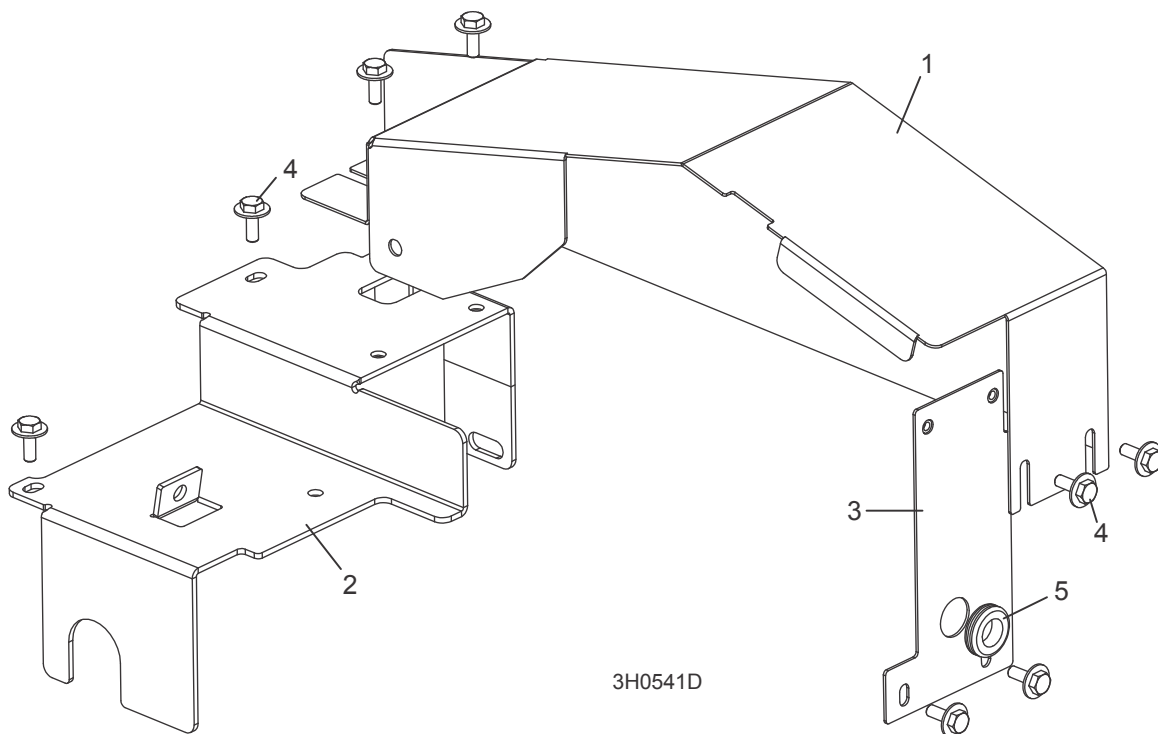
³ Plug housing seals added to harness LT30 Rev. G4.00, LT40 Rev. G5.00, LT30HD and LT40HD Rev. G7.00

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.

INDEX

M

maintenance 2-1
 air cooling system 2-2
 alternator belt 2-6
 battery 2-5
 fuel filter 2-4
 miscellaneous 2-8
 RPM adjustments 2-7

P

parts list
 alternator assembly 3-7, 3-9
 engine assembly 3-5
 engine mount assembly 3-4
 fuel tank 3-1
 pulley guards 3-11

S

starting 1-1