

# Wood-Mizer<sup>®</sup> Sawmill

## Parts Manual

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1992 LT30HD  
1992 LT40HD

rev. C7 - F7  
rev. C7 - F7

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

*October 1996*

*Form #626*

# Table of Contents

# Section-Page

<b>SECTION 1</b>	<b>GENERAL INFORMATION</b>	<b>1-1</b>
1.1	How To Use The Parts List .....	1-1
1.2	Sample Assembly .....	1-1
<b>SECTION 2</b>	<b>BLADE DRIVE &amp; GUIDES</b>	<b>2-1</b>
2.1	Blade Guide Assembly, Idle Side.....	2-1
2.2	Blade Guide Assembly, Drive Side.....	2-3
2.3	Blade Drive Assembly.....	2-5
2.4	Idle Blade Wheel Assembly .....	2-7
	<i>LT30HD Rev. E2 - F7</i>	
	<i>LT40HD Rev. E2 - F7</i>	
2.5	Idle Blade Wheel Assembly .....	2-9
	<i>LT30HD Rev. C7 - E1</i>	
	<i>LT40HD Rev. C7 - E1</i>	
2.6	Hydraulic Blade Tensioner Assembly.....	2-11
2.7	Blade Guide Arm Assembly.....	2-13
	<i>LT30HD Rev. D3 - F7</i>	
	<i>LT40HD Rev. D3 - F7</i>	
2.8	Blade Guide Arm Assembly.....	2-15
	<i>LT30HD Rev. C7 - D2</i>	
	<i>LT40HD Rev. C7 - D2</i>	
2.9	Brake Strap Assembly .....	2-17
	<i>LT30HD Retrofit</i>	
	<i>LT40HD Retrofit</i>	
2.10	Clutch/Brake Lever Assembly .....	2-19
	<i>LT30HD Rev. F2 - F7</i>	
	<i>LT40HD Rev. F2 - F7</i>	
2.11	Clutch/Brake Lever Assembly .....	2-21
	<i>LT30HD Rev. C7 - F1</i>	
	<i>LT40HD Rev. C7 - F1</i>	
2.12	Water Lube Assembly .....	2-23
	<i>LT30HD Retrofit</i>	
	<i>LT40HD Retrofit</i>	
2.13	Water Lube Assembly .....	2-25
	<i>LT30HD Rev. C7 - F7</i>	
	<i>LT40HD Rev. C7 - F7</i>	
2.14	Middle Throat Screw.....	2-27
	<i>LT30HD Rev. D1 - F7</i>	
	<i>LT40HD Rev. D1 - F7</i>	
2.15	Middle Throat Cam .....	2-27
	<i>LT30HD Rev. C7 - C9</i>	
	<i>LT40HD Rev. C7 - C9</i>	
<b>SECTION 3</b>	<b>DECALS &amp; SAW HEAD COVERS</b>	<b>3-1</b>
3.1	Safety Decals .....	3-1
3.2	Saw Head Covers .....	3-3

## Table of Contents

## Section-Page

<b>SECTION 4</b>	<b>CONTROL &amp; BATTERY BOXES</b>	<b>4-1</b>
4.1	Control Assembly, LT30HD/LT40HD (U.S.).....	4-1
4.2	Control Assembly, LT30HD/LT40HD (G.S.).....	4-3
4.3	Battery Box Assembly, LT30HD/LT40HD .....	4-6
	<i>LT30HD</i> <i>Rev. E3 - F7</i>	
	<i>LT40HD</i> <i>Rev. E3 - F7</i>	
4.4	Battery Box Assembly, LT30HD/LT40HD .....	4-10
	<i>LT30HD</i> <i>Rev. D3 - E2</i>	
	<i>LT40HD</i> <i>Rev. D3 - E2</i>	
4.5	Battery Box Assembly, LT30HD/LT40HD .....	4-14
	<i>LT30HD</i> <i>Rev. C7 - D2</i>	
	<i>LT40HD</i> <i>Rev. C7 - D2</i>	
<b>SECTION 5</b>	<b>UP/DOWN SYSTEM &amp; SCALES</b>	<b>5-1</b>
5.1	Saw Head V-Brace Mount.....	5-1
5.2	Blade Height Scale .....	5-3
	<i>LT30HD</i> <i>Rev. D3 - F7</i>	
	<i>LT40HD</i> <i>Rev. D3 - F7</i>	
5.3	Blade Height Scale .....	5-5
	<i>LT30HD</i> <i>Rev. C7 - D2</i>	
	<i>LT40HD</i> <i>Rev. C7 - D2</i>	
5.4	Up/Down Assembly .....	5-7
	<i>LT30HD</i> <i>Rev. D5 - F7</i>	
	<i>LT40HD</i> <i>Rev. D5 - F7</i>	
5.5	Up/Down Assembly .....	5-9
	<i>LT30HD</i> <i>Rev. C7 - D4</i>	
	<i>LT40HD</i> <i>Rev. C7 - D4</i>	
<b>SECTION 6</b>	<b>POWER FEED &amp; TRACK ROLLERS</b>	<b>6-1</b>
6.1	Upper Track Rollers And Wipers.....	6-1
6.2	Power Feed Assembly .....	6-3
6.3	Lower Track Rollers.....	6-5
	<i>LT30HD</i> <i>Rev. E8 - F7</i>	
	<i>LT40HD</i> <i>Rev. E8 - F7</i>	
6.4	Lower Track Rollers.....	6-6
	<i>LT30HD</i> <i>Rev. C7 - E7</i>	
	<i>LT40HD</i> <i>Rev. C7 - E7</i>	
<b>SECTION 7</b>	<b>BED FRAME ASSEMBLY</b>	<b>7-1</b>
7.1	Bed Rail Assembly, Front And Rear .....	7-1
7.2	Bed Rail Assembly, Middle .....	7-2
7.3	Pivot Bed Rail Assembly.....	7-3
7.4	Log Side Support Assembly (Manual) .....	7-4
7.5	Leg, Stationary .....	7-5
7.6	Tie Down Chain Assembly .....	7-6

# Table of Contents

# Section-Page

## SECTION 8 HYDRAULIC SYSTEM

8-1

8.1	Hydraulic Hoses .....	8-1
	<i>LT30HD</i> <i>Rev. F5 - F7</i>	
	<i>LT40HD</i> <i>Rev. F5 - F7</i>	
8.2	Hydraulic Hoses .....	8-2
	<i>LT30HD</i> <i>Rev. C7 - F4</i>	
	<i>LT40HD</i> <i>Rev. C7 - F4</i>	
8.3	Hydraulic Control Box .....	8-4
	<i>LT30HD</i> <i>Rev. F3 - F7</i>	
	<i>LT40HD</i> <i>Rev. F3 - F7</i>	
8.4	Hydraulic Control Box .....	8-8
	<i>LT30HD</i> <i>Rev. E7 - F2</i>	
	<i>LT40HD</i> <i>Rev. E7 - F2</i>	
8.5	Hydraulic Control Box .....	8-11
	<i>LT30HD</i> <i>Rev. C7 - E6</i>	
	<i>LT40HD</i> <i>Rev. C7 - E6</i>	
8.6	Hydraulic Pump/Valve .....	8-13
	<i>LT30HD</i> <i>Rev. C7 - E6</i>	
	<i>LT40HD</i> <i>Rev. C7 - E6</i>	
8.7	Hydraulic Power Supply Strip.....	8-15
	<i>Retrofit</i>	
8.8	Hydraulic Power Supply Strip.....	8-17
	<i>LT30HD</i> <i>Rev. C7 - F7</i>	
	<i>LT40HD</i> <i>Rev. C7 - F7</i>	
8.9	Hydraulic Log Loader .....	8-19
	<i>LT30HD</i> <i>Rev. F5 - F7</i>	
	<i>LT40HD</i> <i>Rev. F5 - F7</i>	
8.10	Hydraulic Log Loader .....	8-21
	<i>LT30HD</i> <i>Rev. C7 - F4</i>	
	<i>LT40HD</i> <i>Rev. C7 - F4</i>	
8.11	Hydraulic Log Turner.....	8-23
8.12	Hydraulic Log Side Supports .....	8-25
8.13	Hydraulic Log Clamp Activator.....	8-27
	<i>LT30HD</i> <i>Retrofit</i>	
	<i>LT40HD</i> <i>Retrofit</i>	
8.14	Hydraulic Log Clamp .....	8-28
	<i>LT30HD</i> <i>Rev. C8 - F7</i>	
	<i>LT40HD</i> <i>Rev. C8 - F7</i>	
8.15	Hydraulic Log Clamp .....	8-32
	<i>LT30HD</i> <i>Rev. C7</i>	
	<i>LT40HD</i> <i>Rev. C7</i>	
8.16	Hydraulic Toe Board (Roller-Style).....	8-35
	<i>LT30HD</i> <i>Retrofit</i>	
	<i>LT40HD</i> <i>Retrofit</i>	
8.17	Hydraulic Toe Board .....	8-37

## SECTION 1 GENERAL INFORMATION

### 1.1 How To Use The Parts List

- Use the table of contents or 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.

1.2 Sample Assembly				
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>SAMPLE ASSEMBLY, COMPLETE (INCLUDES ALL INDENTED PARTS BELOW)</b>	A01111	1	
1	Sample Part	F02222-22	1	
	Sample Subassembly (Includes All Indented Parts Below)	A03333	1	
2	Sample Part (◆ Indicates Part Is Only Available With A03333)	S04444-4	1	◆
	Sample Subassembly (Includes All Indented Parts Below)	K05555	1	
3	Sample Part (◆ Indicates Part Is Only Available With K05555)	M06666	2	◆
4	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.

## SECTION 2 BLADE DRIVE & GUIDES

<b>2.1 Blade Guide Assembly, Idle Side</b>				
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>BLADE GUIDE ASSEMBLY, COMPLETE IDLE SIDE</b>	A08197 <sup>1</sup>	1	
1	Nut, 1/2-20 Jam Nylon Lock	F05010-79	1	
	Roller Assembly, Blade Guide (standard)	A04925	1	
	Bearing Kit, Blade Guide Rebuild	K07079	1	
2	Washer, 5/8" White Felt	P04252	1	
3	Ring, 1 1/8" Interior Retaining	F04254-1	1	
4	Bearing, R8-2RS Blade Guide	015975	2	◆
5	Washer, 5/8" Gray Felt	P06455	1	
	Screw, 1/4-28 x 1/4" Socket Head Cup Point Set Black Oxide	F05005-105	1	
	Instruction Sheet, Blade Guide Rebuild	057407-1507	1	
6	Roller, Flanged Blade Guide	S04250	1	◆
	Instruction Sheet, Blade Guide Roller Replacement	A04925-364	1	
7	Spacer, Blade Guide	S04253	2	
8	Bolt, Blade Guide Roller	036373	1	
9	Bracket, Blade Guide Idle Side With Water Tube	W08495 <sup>2</sup>	1	
10	Screw, 3/8-24 X 1 1/4" Stainless Steel Socket Head Flat Point	F05007-96 <sup>3</sup>	2	
11	Nut, 3/8-24 Jam	F05010-22	2	
12	Shaft, Blade Guide Adjustment	S08196	1	
13	<b>SCREW, 3/8-24 X 3/4" STAINLESS STEEL SOCKET HEAD FLAT POINT</b>	F05007-95 <sup>4</sup>	4	
14	<b>NUT, 3/8-24 JAM</b>	F05010-22	4	
15	<b>TUBE, BLADE GUIDE MOUNT</b> ( <a href="#">See Section 2.7 Blade Guide Arm Assembly</a> )	W08159	1	
	<b>ROLLER ASSEMBLY, BLADE GUIDE RELUBE (OPTIONAL)</b>	016568	1	
	Bearing Kit, Relube Blade Guide Rebuild	057407	1	
16	Washer, 5/8" White Felt	P04252	1	
17	Ring, 1 1/8" Interior Retaining	F04254-1	1	
18	Bearing, R8-2RS Blade Guide	015975 <sup>5</sup>	2	◆
19	Washer, 5/8" Gray Felt	P06455	1	
20	Spacer, Blade Guide Bearing	035411	1	
	Instruction Sheet, Blade Guide Rebuild	057407-1507	1	
21	Roller, Flanged Blade Guide Relube	035426	1	◆
	Instruction Sheet, Blade Guide Roller Replacement	A04925-364	1	
22	<b>BOLT, BLADE GUIDE ROLLER (RELUBE ONLY)</b>	S08192	1	
23	<b>FITTING, 1/4-28 GREASE (RELUBE ONLY)</b>	P05060	1	

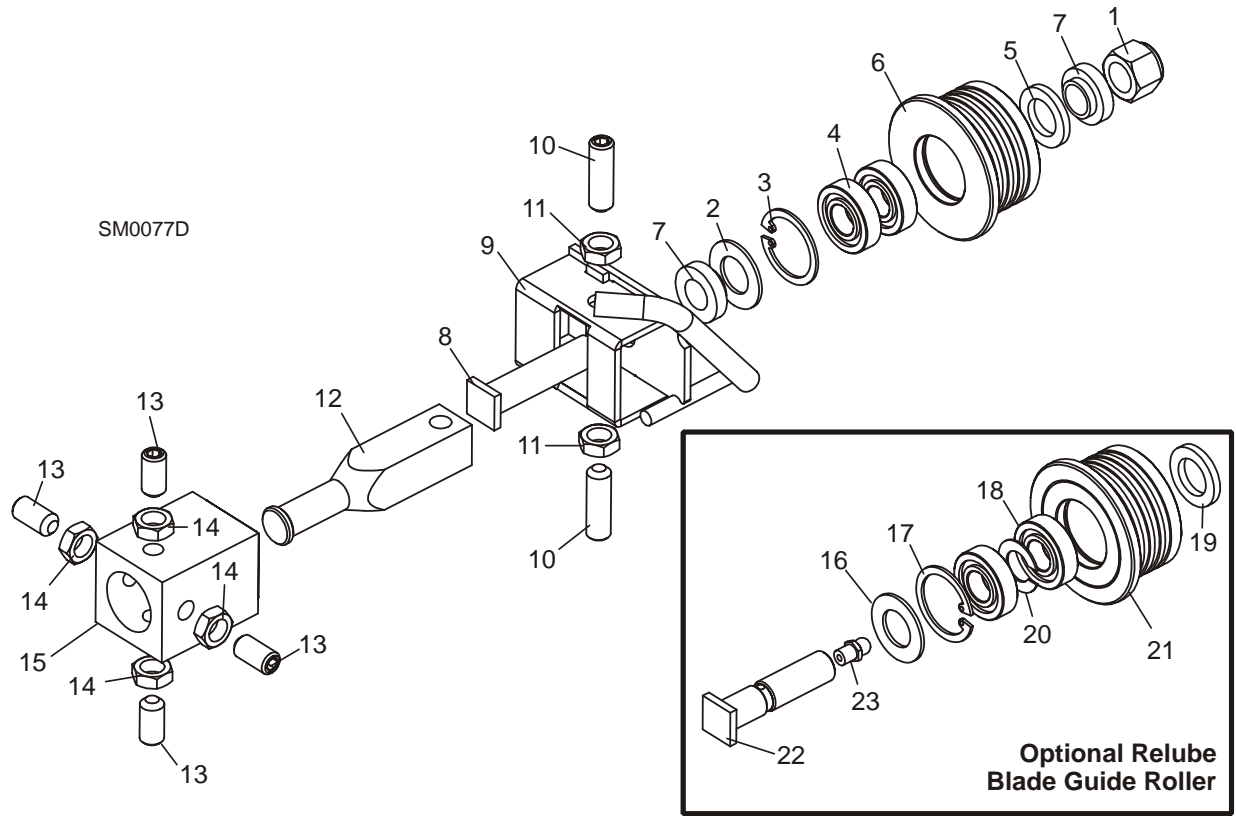
<sup>1</sup> Complete blade guide assembly A08197 includes roller with non-greaseable bearings A04925. See optional parts for Relube guide assemblies.

<sup>2</sup> Bracket flange replaced with rod on Rev. D1 (11/91). New bracket is interchangeable with brackets on Rev. C7 - C9.

<sup>3</sup> Stainless screw replaces F05007-51 used on Rev. C7 to E4 (8/93).

<sup>4</sup> Stainless screw replaces F05007-20 used on Rev. C7 to E4 (8/93).

<sup>5</sup> Bearing must be modified for use with relube roller assemblies. Remove one seal from each bearing, place open sides facing each other and place spacer 035411 between bearings.



**FIG. 2-1**



## Blade Drive & Guides

### Blade Guide Assembly, Drive Side

<b>2.2 Blade Guide Assembly, Drive Side</b>				
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>BLADE GUIDE ASSEMBLY, COMPLETE DRIVE SIDE</b>	A08191 <sup>1</sup>	1	
1	Nut, 1/2-20 Jam Nylon Lock	F05010-79	1	
	Roller Assembly, Blade Guide (standard)	A04925	1	
	Bearing Kit, Blade Guide Rebuild	K07079	1	
2	Washer, 5/8" White Felt	P04252	1	
3	Ring, 1 1/8" Interior Retaining	F04254-1	1	
4	Bearing, R8-2RS Blade Guide	015975	2	◆
5	Washer, 5/8" Gray Felt	P06455	1	
	Screw, 1/4-28 x 1/4" Socket Head Cup Point Set Black Oxide	F05005-105	1	
	Instruction Sheet, Blade Guide Rebuild	057407-1507	1	
6	Roller, Flanged Blade Guide	S04250	1	◆
	Instruction Sheet, Blade Guide Roller Replacement	A04925-364	1	
7	Spacer, Blade Guide	S04253	2	
8	Bolt, Blade Guide Roller	036373	1	
9	Bracket, Blade Guide Drive Side	W08482 <sup>2</sup>	1	
10	Screw, 3/8-24 X 1 1/4" Stainless Steel Socket Head Flat Point	F05007-96 <sup>3</sup>	2	
11	Nut, 3/8-24 Jam	F05010-22	2	
12	Shaft, Blade Guide Adjustment	S08196	1	
13	<b>SCREW, 3/8-24 X 3/4" STAINLESS STEEL SOCKET HEAD FLAT POINT SET</b>	F05007-95 <sup>4</sup>	3	
14	<b>BOLT, 3/8-24 X 1" STAINLESS STEEL HEX HEAD</b>	F05007-99 <sup>5</sup>	1	
15	<b>NUT, 3/8-24 JAM</b>	F05010-22	4	
16	<b>TUBE, BLADE GUIDE MOUNT</b> (Part of Saw Frame Weldment)	W08159 <sup>6</sup>	1	
	<b>ROLLER ASSEMBLY, BLADE GUIDE RELUBE (OPTIONAL)</b>	016568	1	
	Bearing Kit, Relube Blade Guide Rebuild	057407	1	
17	Washer, 5/8" White Felt	P04252	1	
18	Ring, 1 1/8" Interior Retaining	F04254-1	1	
19	Bearing, R8-2RS Blade Guide	015975 <sup>7</sup>	2	◆
20	Washer, 5/8" Gray Felt	P06455	1	
21	Spacer, Blade Guide Bearing	035411	1	
	Instruction Sheet, Blade Guide Rebuild	057407-1507	1	
22	Roller, Flanged Blade Guide Relube	035426	1	◆
	Instruction Sheet, Blade Guide Roller Replacement	A04925-364	1	
23	<b>BOLT, BLADE GUIDE ROLLER (RELUBE ONLY)</b>	S08192	1	
24	<b>FITTING, 1/4-28 GREASE (RELUBE ONLY)</b>	P05060	1	

<sup>1</sup> Complete blade guide assembly A08191 includes roller with non-greaseable bearings A04925. See optional parts for Relube guide assemblies.

<sup>2</sup> Bracket flange replaced with rod on Rev. D1 (11/91). New bracket is interchangeable with brackets on Rev. C7 - C9.

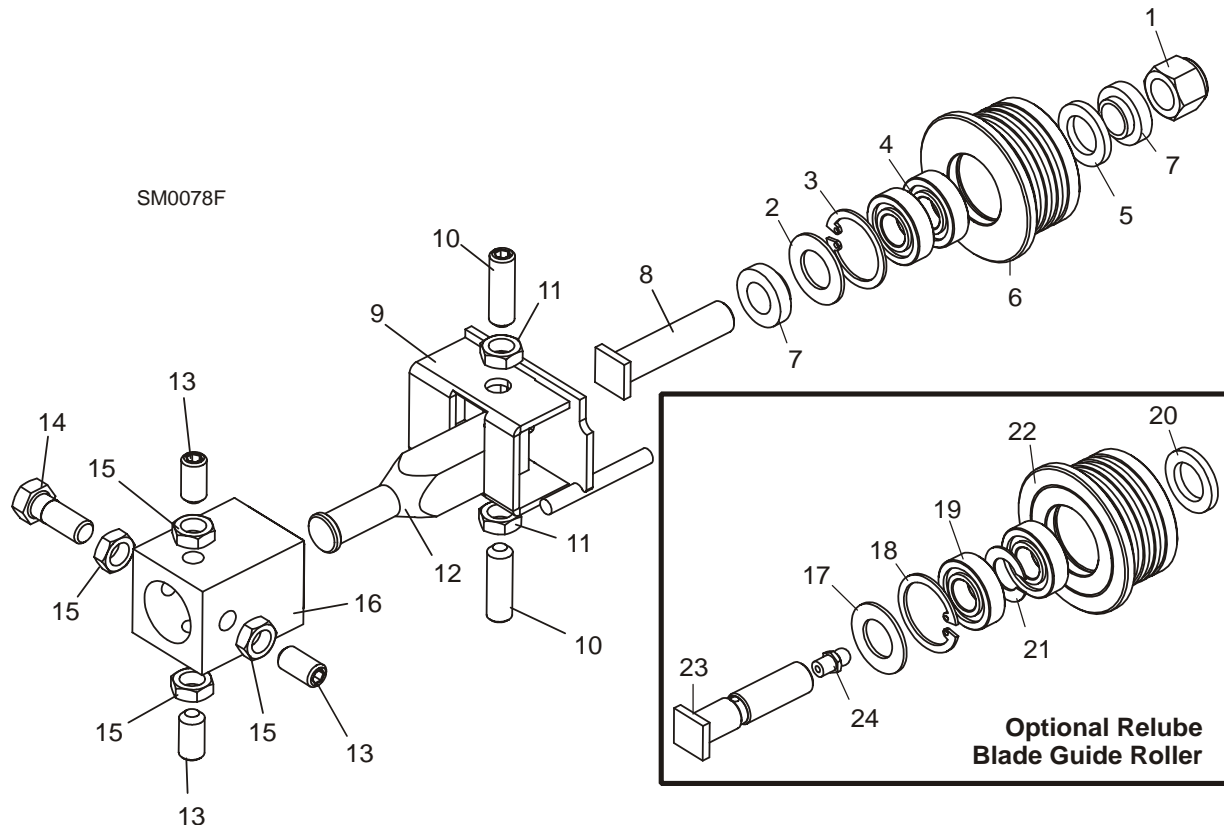
<sup>3</sup> Stainless screw replaces F05007-51 used on Rev. C7 to E4 (8/93).

<sup>4</sup> Stainless screw replaces F05007-20 used on Rev. C7 to E4 (8/93).

<sup>5</sup> Stainless bolt replaces F05007-95 (12/94).



- <sup>6</sup> Bolt-On blade guide kit available (016566). Requires cutting old block off, welding new receiver to saw head that will accept bolt-on mount. Kit includes all hardware and instructions.
- <sup>7</sup> Bearing must be modified for use with relube roller assemblies. Remove one seal from each bearing, place open sides facing each other and place spacer 035411 between bearings.



**FIG. 2-2**

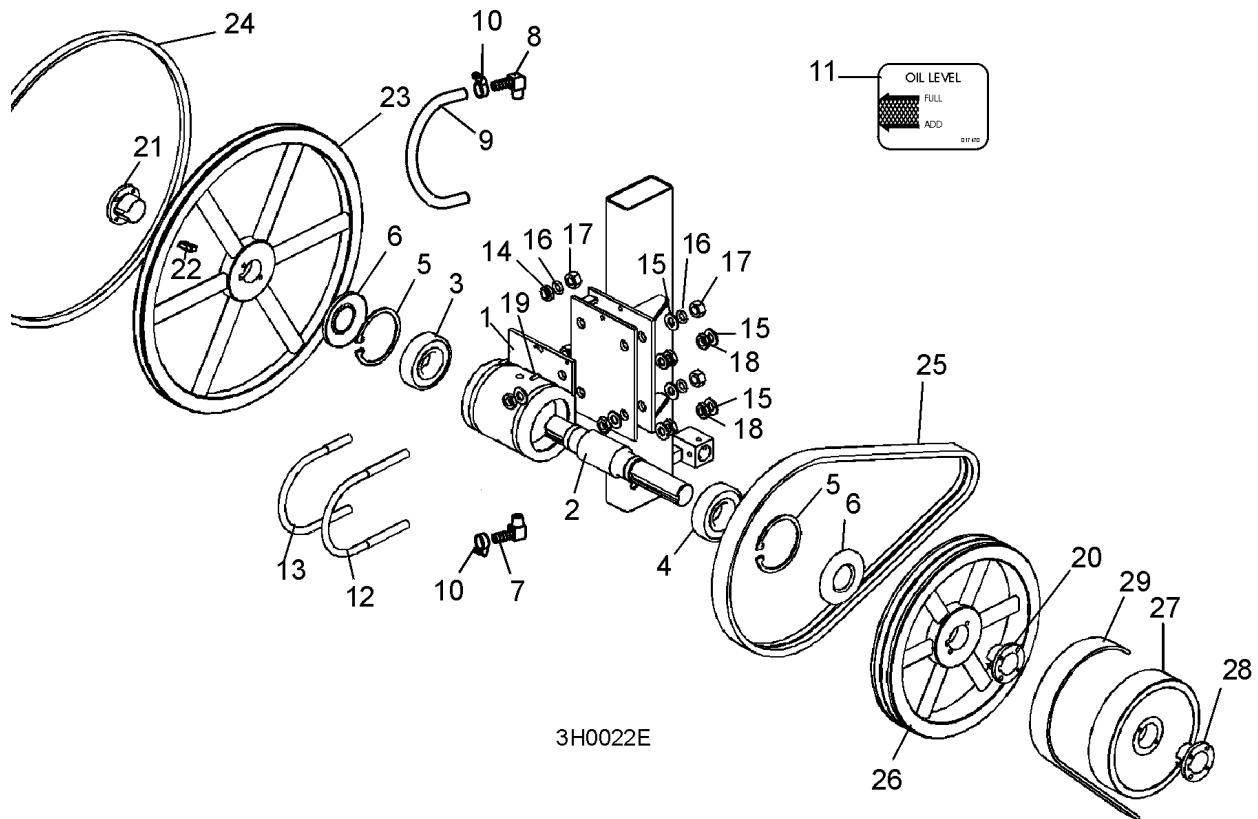
## 2 Blade Drive & Guides

### Blade Drive Assembly

<b>2.3 Blade Drive Assembly</b>				
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>BEARING ASSEMBLY, BLADE WHEEL DRIVE</b>	K10200 <sup>1</sup>	1	
	Bearing Assembly, Drive Painted	A10199	1	
1	Housing, Blade Wheel Drive Bearing	W10201	1	◆
2	Shaft, Blade Wheel Drive	S10204	1	◆
3	Bearing, Blade Wheel Drive #MU1308TV	P10205	1	◆
4	Bearing, Blade Wheel Drive #6308 C3 Open	016055 <sup>2</sup>	1	◆
5	Ring, 90mm Interior Retaining #117	F04254-17	2	
6	Seal, Drive Bearing #CR15890	P10206-K	2	
7	Fitting, 1/4" NPT x 3/8" Hose Barb Elbow	016330 <sup>3</sup>	1	
8	Fitting, 1/4" NPT x 3/8" Hose Barb Vented Elbow	016331	1	
9	Hose, Oil Level Viewer	016337	1	
10	Clamp, 7/32-5/8" Hose	P649	2	
11	Decal, Oil Level Gauge	017470	1	
12	Bolt, 1/2-13 Long U	S10207-1	1	
13	Bolt, 1/2-13 Short U	S10207-2	1	
14	Spacer, 1/2" I.D. Flanged	S04253	2	
15	Washer, 1/2" SAE Flat	F05011-2	8	
16	Washer, 1/2" Split Lock	F05011-9	4	
17	Nut, 1/2-13 Hex	F05010-35	4	
18	Nut, 1/2-13 Hex Jam	F05010-31	6	
19	Pin, 3/16" X 5/8" Roll	F05012-22	2	
20	Bushing, 1 7/16" Type 'H' Thick Flange	P12962 <sup>4</sup>	3	
	Instruction Sheet, Bearing Replacement	K10200-275	1	
	<b>WHEEL KIT, DRIVE SIDE BLADE</b>	K12897 <sup>5</sup>	1	
21	Bushing, 1 7/16" SD	016098 <sup>5</sup>	1	
22	Key, .375" x .375"	S12892 <sup>6</sup>	1	
	Key, .375" x .360"	S12893 <sup>6</sup>	1	
23	Wheel, Drive Side Blade	016284	1	◆
	Drive Side Blade Wheel Replacement Kit Instruction Sheet	K12897-488	1	
24	<b>BELT, BLADE WHEEL B57</b>	P04185	1	
25	<b>BELT, 2BX74 DRIVE (24HP ONAN GAS ENGINE)</b>	P10277-2 <sup>7</sup>	1	
	<b>BELT, 2BX72 DRIVE (25HP KOHLER GAS ENGINE)</b>	P09555-2 <sup>8</sup>	1	
	<b>BELT, 2BX70 DRIVE (15HP BALDOR ELECTRIC MOTOR)</b>	P04857-2 <sup>9</sup>	1	
	<b>BELT, 2BX68 DRIVE (20HP ACME DIESEL)</b>	P12139-2 <sup>10</sup>	1	
26	<b>PULLEY, 2BK130H DRIVE</b>	P04854	1	
	<b>WHEEL ASSEMBLY, BRAKE</b>	A09953	1	
27	Wheel, Brake	014000 <sup>11</sup>	1	◆
28	Bushing, 1 7/16" P-1 Split Taper	014460 <sup>12</sup>	1	

<b>29</b>	<b>STRAP, METAL-BACKED BRAKE</b>	P12791 <sup>13</sup>	1	◆
	<b>STRAP, COTTON BRAKE</b>	M07484 <sup>14</sup>	1	

- <sup>1</sup> Shipped without oil after 4/95. Customer should source a multipurpose Automatic Transmission Fluid (ATF) to add to the bearing after installation.
- <sup>2</sup> Replaces P10205 Blade Wheel Drive Bearing #MU1308TV 6/98.
- <sup>3</sup> Oil level viewer added 6/99. New fitting replaces P05498 1/4" NPT Pipe Plug and P12868 1/4" NPT Vented Pipe Plug supplied prior to 6/99 (and P11757 1/4" NPT Square Head Pipe Plug supplied prior to 12/98).
- <sup>4</sup> Replaces P05152 1 7/16" type 'H' standard bushing originally supplied.
- <sup>5</sup> Replaces S09948 drive blade wheel supplied prior to Rev. F4. Use P12962 'H' Bushing for original pulley. Use 016098 'SD' Bushing if wheel upgraded with K12897 wheel kit.
- <sup>6</sup> Only one key required; key size will depend on keyway size in shaft.
- <sup>7</sup> One Double-Belt replaces two P10277 single belts on Rev. C7 - E2.
- <sup>8</sup> One Double-Belt replaces two P09555 single belts on Rev. C7 - E2.
- <sup>9</sup> One Double-Belt replaces two P04857 single belts on Rev. C7 - E2.
- <sup>10</sup> One Double-Belt replaces two P12139 single belts on Rev. C7 - E2.
- <sup>11</sup> Replaces 014339 and W09953 Brake Wheels (4/96). NOTE: Change from W09953 to 014339 was a part number change only.
- <sup>12</sup> Use P12962 'H' Bushing for original brake pulley. Use 014460 'P1" Bushing if wheel upgraded with 014000 brake wheel.
- <sup>13</sup> P12791 metal brake strap no longer available. Use upper pivot brake strap retrofit kit 014443 (Replaces retrofit kit K12820). [See Section 2.9](#). If strap has already been retrofitted, use 014391 to replace brake strap.
- <sup>14</sup> Replaces leather brake strap originally supplied on Rev. C7 - F1. Customers may retrofit to metal-backed brake strap (014443). [See Section 2.9](#). If strap has already been retrofitted, use 014391 to replace brake strap.



**FIG. 2-3**

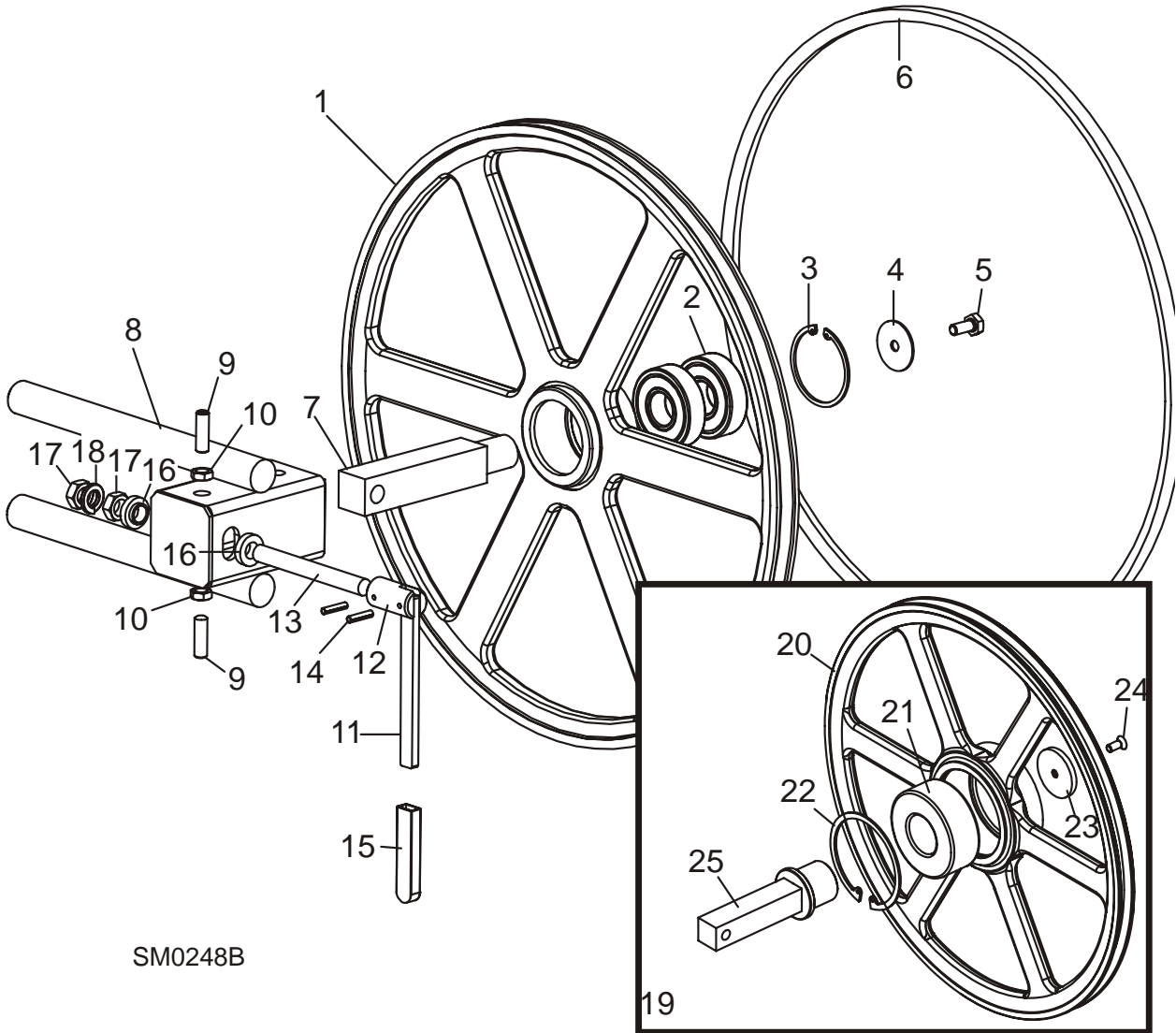
## 2 Blade Drive & Guides

### Idle Blade Wheel Assembly

<b>2.4 Idle Blade Wheel Assembly</b>				
<i>LT30HD</i>		<i>Rev. E2 - F7</i>		
<i>LT40HD</i>		<i>Rev. E2 - F7</i>		
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>WHEEL ASSEMBLY, IDLE SIDE BLADE</b>	A08218 <sup>1</sup>	1	
1	Wheel, Idle Side Blade	P08125	1	◆
2	Bearing, Idle Side Blade Wheel #6305-AA, C3, ABEC-1, SRI-2 Grease	P08066 <sup>2</sup>	2	
3	Ring, 2 7/16" Internal Retaining	F04254-21	1	
4	<b>WASHER, IDLE BLADE WHEEL RETAINER</b>	S08220	1	
5	<b>BOLT, 5/16-18 X 3/4" HEX HEAD</b>	F05006-5	1	
6	<b>BELT, BLADE WHEEL B57</b>	P04185	1	
7	<b>SHAFT, IDLE BLADE WHEEL</b>	S12565	1	
8	<b>HOUSING, IDLE BLADE WHEEL SHAFT</b>	W10157	1	
9	<b>SCREW, 3/8-16 X 1 1/4" SOCKET HEAD OVAL POINT</b>	F05007-18	2	
10	<b>NUT, 3/8-16 HEX JAM</b>	F05010-29	2	
	<b>HANDLE ASSEMBLY, IDLE SIDE PULLEY TILT</b>	A09357	1	
11	Handle, Tilt Adjustment Screw	S08174	1	◆
12	Driver, Tilt Adjustment Screw	S09405	1	◆
13	Rod, Threaded Tilt Adjustment Screw	S09358	1	◆
14	Pin, 3/16" x 7/8" Roll	F05012-19	2	
15	<b>SLEEVE, PLASTIC HANDLE</b>	P08072	1	
16	<b>SPACER, 1/2" I.D. FLANGED</b>	S04253	2	
17	<b>NUT, 1/2-20 HEX JAM</b>	F05010-16	2	
18	<b>WASHER, 1/2" SPLIT LOCK</b>	F05011-9	1	
19	<b>WHEEL KIT, IDLE SIDE BLADE UPGRADE</b>	016189 <sup>1</sup>		
	Wheel Assembly, Idle Side Blade	016120	1	
20	Wheel, Idle Side Blade	016013	1	◆
21	Bearing, Idle Side Blade Wheel #5309-2RS, C3, SRI-2 Grease	016014	1	
22	Ring, 100mm Internal Retaining Beveled	F04254-28	1	
23	Washer, 2 3/16 x 1/4"	016095	1	
24	Bolt, 5/16-18 X 3/4" Flat Head Socket	F05006-95	1	
25	Shaft, Idle Side Blade Wheel Retrofit	016180	1	

<sup>1</sup> Upgrade kit 016189 including blade wheel with larger diameter bearing and retrofit shaft 016180 available. [See Item #19](#) for upgrade parts.

<sup>2</sup> C3 Clearance bearing replaces C0 clearance supplied until 3/96.



SM0248B

FIG. 2-4

## 2 Blade Drive & Guides

### Idle Blade Wheel Assembly

<b>2.5 Idle Blade Wheel Assembly</b>				
<b>LT30HD</b>		<b>Rev. C7 - E1</b>		
<b>LT40HD</b>		<b>Rev. C7 - E1</b>		
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>WHEEL ASSEMBLY, IDLE SIDE BLADE</b>	A08218 <sup>1</sup>	1	
1	Wheel, Idle Side Blade	P08125	1	◆
2	Bearing, Idle Side Blade Wheel #6305-AA, C3, ABEC-1, SRI-2 Grease	P08066 <sup>2</sup>	2	
3	Retainer Plate, Bearing	S10159	1	
4	Screw, 1/4-20 X 1 1/4" Flat Head	F05005-66	3	
5	Bolt, 1/4-20 X 3/8" Hex Head Grade 2	F05005-67	3	
6	Washer, 1/4" SAE Flat	F05011-11	3	
7	<b>WASHER, IDLE BLADE WHEEL RETAINER</b>	S08220	1	
8	<b>BOLT, 5/16-18 X 3/4" HEX HEAD</b>	F05006-5	1	
9	<b>BELT, BLADE WHEEL B57</b>	P04185	1	
10	<b>SHAFT, IDLE BLADE WHEEL</b>	S09893	1	
11	<b>HOUSING, IDLE BLADE WHEEL SHAFT</b>	W10157	1	
12	<b>SCREW, 3/8-16 X 1 1/4" SOCKET HEAD OVAL POINT</b>	F05007-18	2	
13	<b>NUT, 3/8-16 HEX JAM</b>	F05010-29	2	
	<b>HANDLE ASSEMBLY, IDLE SIDE PULLEY TILT</b>	A09357	1	
14	Handle, Tilt Adjustment Screw	S08174	1	◆
15	Driver, Tilt Adjustment Screw	S09405	1	◆
16	Rod, Threaded Tilt Adjustment Screw	S09358	1	◆
17	Pin, 3/16" X 7/8" Roll	F05012-19	2	
18	<b>SLEEVE, PLASTIC HANDLE</b>	P08072	1	
19	<b>SPACER, 1/2" I.D. FLANGED</b>	S04253	2	
20	<b>NUT, 1/2-20 HEX JAM</b>	F05010-16	2	
21	<b>WASHER, 1/2" SPLIT LOCK</b>	F05011-9	1	

<sup>1</sup> Replacement assembly A08218 includes upgraded wheel with hub and retaining ring. Blade wheel kit 016189 with larger diameter bearing and retrofit hardware also available. ([See Section 2.4](#)).

<sup>2</sup> C3 Clearance bearing replaces C0 clearance supplied until 3/96.

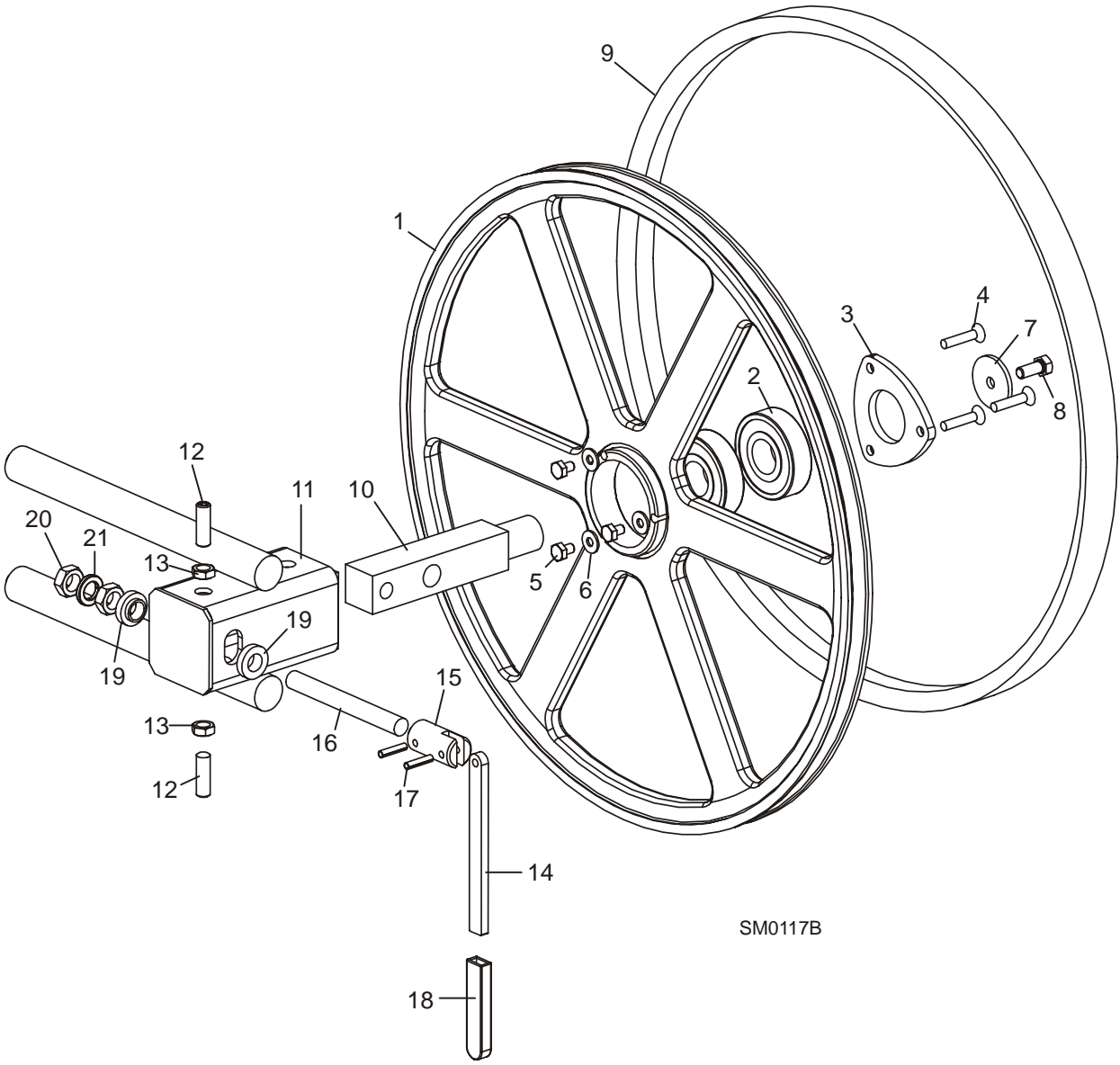


FIG. 2-5

# 2

## Blade Drive & Guides

### Hydraulic Blade Tensioner Assembly

<b>2.6 Hydraulic Blade Tensioner Assembly</b>				
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>HYDRAULIC BLADE TENSIONER ASSEMBLY</b>	A10136	1	
	Handle Assembly, Hydraulic Blade Tensioner Screw	A12294	1	
1	Screw, Hydraulic Blade Tensioner	S10056 <sup>1</sup>	1	◆
2	Handle, Hydraulic Tensioner Screw	S08174	1	
3	Sleeve, Plastic Handle	P08072	1	
4	Pin, 3/16" x 7/8" Roll	F05012-19	1	
5	Ball, 1/2" Steel	P02720	1	
6	Block, Threaded Tensioner End	S10062 <sup>1</sup>	1	◆
7	Fitting, 1/4-28 Grease	P05060	1	
	Instruction Sheet, Tensioner Screw	A12294-518	1	
8	Bolt, 5/16-18 X 7 1/2" Hex Head Grade 5	F05006-43	4	
9	Piston, Hydraulic Tensioner Front 2 3/4" Long	S10060	1	
10	Block, Piston Guide	S10061 <sup>1</sup>	1	
	Seal Kit, Hydraulic Tensioner	003224	1	
5	Ball, 1/2" Steel	P02720	1	
11	Seal, 1" Diameter	P10051	2	
12	Wiper, 1" Diameter	P10053	1	
13	Ring, 5/8" X 3/32" Square "O"	P10377	1	
14	Block, Hydraulic Tensioner Gauge Mounting	S10140 <sup>1</sup>	1	
15	Gauge, 5000 P.S.I.	P10052	1	
16	Plug, Hydraulic Tensioner Fill	P10065	1	
	Block Assembly, Rear Tensioner Piston	016329	1	
17	Block, Rear Tensioner Piston	S10142 <sup>1</sup>	1	◆
18	Plug, Hydraulic Tensioner Fill	P10065 <sup>2</sup>	1	
19	Piston, Hydraulic Tensioner Rear 3 5/8" Long	S10059 <sup>1</sup>	1	
20	Block, Rear Piston End	S10089 <sup>1</sup>	1	
21	Bolt, #10-24 X 1" Socket Button Head	F05004-43	4	
22	Bolt, 5/16-18 X 2 3/4" Hex Head Grade 5	F05006-28	4	
23	Decal, Hydraulic Tension Caution	P10147	1	
	Instruction Sheet, Hydraulic Tensioner Installation	A10136-272	1	

<sup>1</sup> Replaces part number with "-W" suffix. Part number change only.

<sup>2</sup> Plug added to S10142 Rear Tensioner Piston Block 6/99.



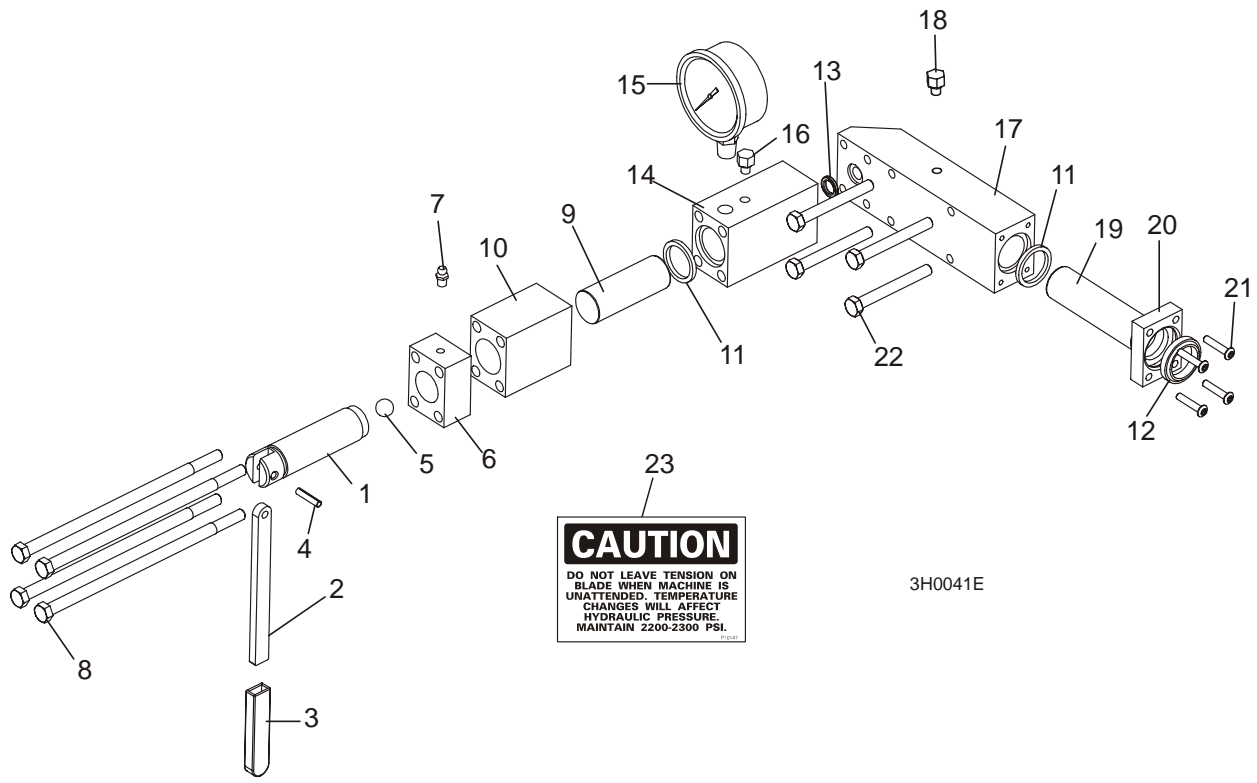


FIG. 2-6

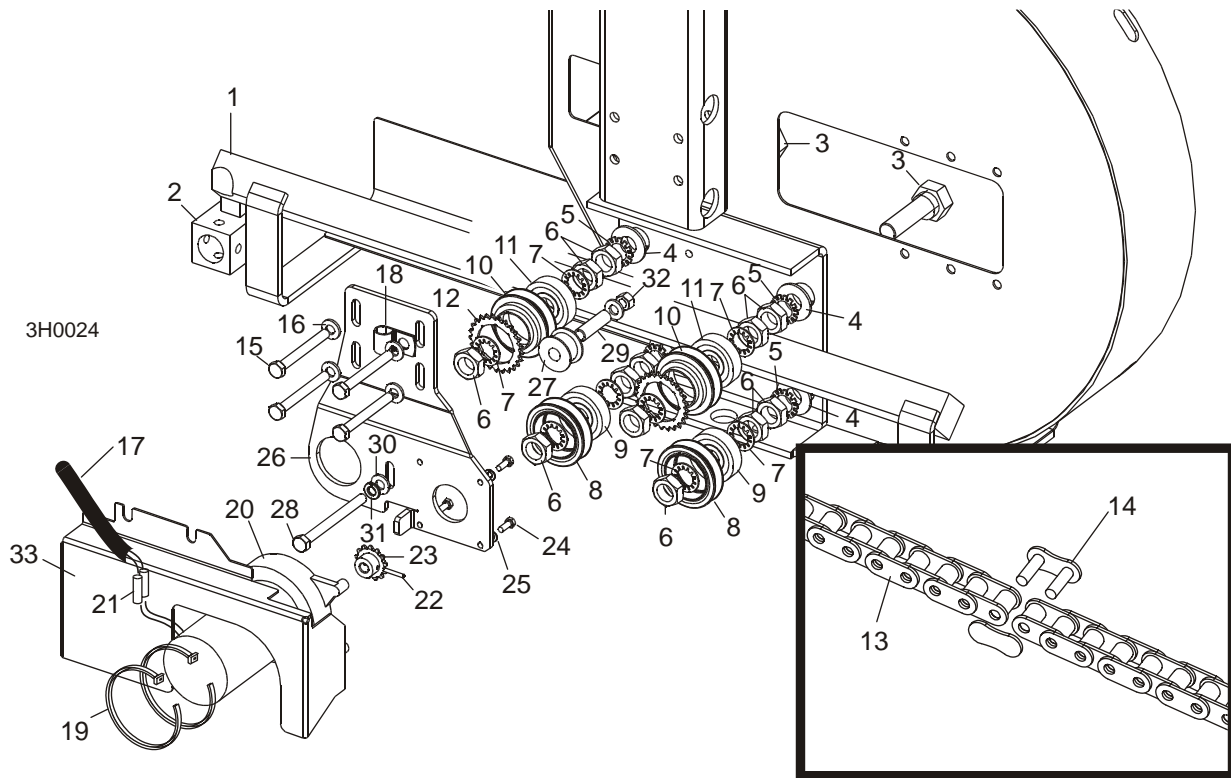
## 2 Blade Drive & Guides

### Blade Guide Arm Assembly

<b>2.7 Blade Guide Arm Assembly</b>				
<b>LT30HD</b>		<b>Rev. D3 - F7</b>		
<b>LT40HD</b>		<b>Rev. D3 - F7</b>		
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
1	<b>BLADE GUIDE ARM WELDMENT (U.S. 28 5/8" [72.7 CM])</b>	W10005	1	
	<b>BLADE GUIDE ARM WELDMENT (G.S. 37 1/8" [94.2 CM])</b>	W10429	1	
2	Tube, Blade Guide Mount (U.S. - Welded to Blade Guide Arm)	W08159	1	
	Tube, Blade Guide Mount (G.S. - Bolted to Blade Guide Arm)	W10426	1	
3	<b>BOLT, BLADE GUIDE ARM ROLLER CAM</b>	W09067	4	
4	<b>WASHER, 5/8" SAE FLAT</b>	F05011-5	4	
5	<b>WASHER, 5/8" EXTERNAL STAR</b>	F05011-26	4	
6	<b>NUT, 5/8-18 HEX JAM</b>	F05010-11	12	
7	<b>WASHER, 5/8" INTERNAL STAR</b>	F05011-25	8	
	<b>ROLLER ASSEMBLY, BLADE GUIDE ARM WITH BEARING</b>	A09059	2	
8	Roller, Blade Guide Arm V-Groove	S07989	1	◆
9	Bearing, 6203-2NSL 5/8" I.D.	P06030-1	1	
	<b>ROLLER ASSEMBLY, BLADE GUIDE ARM WITH BEARING AND SPROCKET</b>	A09932	2	
10	Roller, Blade Guide Arm Drive	S09930	1	◆
11	Bearing, 6203-2NSL 5/8" I.D.	P06030-1	1	
12	Sprocket, #25 26-Tooth	S09931	1	◆
13	<b>CHAIN, #25 X 20 1/4"</b>	P09984	1	
14	<b>LINK, #25 MASTER</b>	P09983	1	
15	<b>BOLT, 5/16-18 X 2 3/4" HEX HEAD GRADE 5</b>	F05006-28	4	
16	<b>WASHER, 5/16" SAE FLAT</b>	F05011-17	4	
17	<b>TUBE, 3/8" X 1/2" NEOPRENE</b>	R01897	2.5ft	
18	<b>CLAMP, 1/2" COATED EMT</b>	P07584	2	
19	<b>WRAP, 1/4" X 6" TIE</b>	F05089-1	2	
	<b>DRIVE ASSEMBLY, BLADE GUIDE ARM</b>	A09974	1	
	Motor Assembly, Blade Guide Arm Replacement	A10353	1	
20	Motor, Blade Guide Arm 53:1 Gear	P09698-1	1	
	Housing, Klauber Motor End	P12756	1	
	Gear Kit, Klauber Motor Replacement	P12569	1	
	Brush Kit, Gear Motor Replacement	P12800 <sup>1</sup>	1	
	Shaft Kit, Klauber Gear Motor Replacement	009695	1	
21	Connector, 14 Gauge Butt	F04875-1	2	
22	Pin, 1/8" X 3/4" Roll	F05012-6	1	
23	Sprocket, Gear Motor #25 14-Tooth	P09970 <sup>2</sup>	1	
24	Screw, #10-32 x 1/2" Hex Head	F05004-60 <sup>3</sup>	4	
25	Washer, #10 Split Lock	F05011-20 <sup>4</sup>	4	
	Instruction Sheet, Blade Guide Arm Motor	A10353-296	1	
26	Bracket, Blade Guide Arm Motor Mount	S09934	1	
27	Roller, Blade Guide Arm Chain Idler	S09999 <sup>5</sup>	1	

<b>28</b>	Bolt, 5/16-18 X 3 1/2" Hex Head Full Thread	F05006-3	1	
<b>29</b>	Spacer, 5/16" I.D. X 1 1/2"	S09996	1	
<b>30</b>	Washer, 5/16" SAE Flat	F05011-17	2	
<b>31</b>	Washer, 5/16" Split Lock	F05011-13	1	
<b>32</b>	Nut, 5/16-18 Hex Lock	F05010-6	1	
<b>33</b>	<b>COVER, BLADE GUIDE ARM MOTOR</b>	S11617	1	
	<b>GUARD, BLADE GUIDE ARM (G.S. ONLY)</b>	S12029	1	

- <sup>1</sup> Brush kit used for Von Wiese and Klauber gear motors.
- <sup>2</sup> Sprocket modified 6/11 with threaded holes to accept included set screws (two F05004-274 #10-24 Full Dog Point Socket Set Screws replace 1/8" x 3/4" roll pin F05012-6). 14-Tooth sprocket replaces 13-tooth sprocket originally supplied before 5/93.
- <sup>3</sup> Replaces (4) F05004-29 button head screws 3/95. Included with motor after 12/95.
- <sup>4</sup> Lock washers added 8/95 to prevent mounting bolts from becoming loose. Included with motor after 12/95.
- <sup>5</sup> Replaces S09999-W. Part Number change only.



**FIG. 2-7**

## 2 Blade Drive & Guides

### Blade Guide Arm Assembly

<b>2.8 Blade Guide Arm Assembly</b>				
<i>LT30HD</i>		<i>Rev. C7 - D2</i>		
<i>LT40HD</i>		<i>Rev. C7 - D2</i>		
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
1	BLADE GUIDE ARM WELDMENT (U.S. 28 5/8" [72.7 CM])	W10005	1	
	BLADE GUIDE ARM WELDMENT (G.S. 37 1/8" [94.2 CM])	W10429	1	
2	Tube, Blade Guide Mount (U.S. - Welded to Blade Guide Arm)	W08159	1	
	Tube, Blade Guide Mount (G.S. - Bolted to Blade Guide Arm)	W10426	1	
3	<b>BOLT, BLADE GUIDE ARM ROLLER CAM</b>	W09067	4	
4	<b>WASHER, 5/8" SAE FLAT</b>	F05011-5	4	
5	<b>WASHER, 5/8" EXTERNAL STAR</b>	F05011-26	4	
6	<b>NUT, 5/8-18 HEX JAM</b>	F05010-11	12	
7	<b>WASHER, 5/8" INTERNAL STAR</b>	F05011-25	8	
	<b>ROLLER ASSEMBLY, BLADE GUIDE ARM WITH BEARING</b>	A09059	2	
8	Roller, Blade Guide Arm V-Groove	S07989	1	◆
9	Bearing, 6203-2NSL 5/8" I.D.	P06030-1	1	
	<b>ROLLER ASSEMBLY, BLADE GUIDE ARM WITH BEARING AND SPROCKET</b>	A09932	2	
10	Roller, Blade Guide Arm Drive	S09930	1	◆
11	Bearing, 6203-2NSL 5/8" I.D.	P06030-1	1	
12	Sprocket, #25 26-Tooth	S09931	1	◆
13	<b>CHAIN, #25 X 20 1/4"</b>	P09984	1	
14	<b>LINK, #25 MASTER</b>	P09983	1	
15	<b>BOLT, 5/16-18 X 2 3/4" HEX HEAD GRADE 5</b>	F05006-28	4	
16	<b>WASHER, 5/16" SAE FLAT</b>	F05011-17	4	
17	<b>TUBE, 3/8" X 1/2" NEOPRENE</b>	R01897	2.5ft	
18	<b>CLAMP, 1/2" COATED EMT</b>	P07584	2	
19	<b>WRAP, 1/4" X 6" TIE</b>	F05089-1	2	
	<b>DRIVE ASSEMBLY, BLADE GUIDE ARM</b>	A09974	1	
	Motor Assembly, Blade Guide Arm Replacement	A10353 <sup>1</sup>	1	
20	Motor, Blade Guide Arm 50:1 Gear	P09698	1	◆
	Gear Kit, Von Weise Motor Replacement	A10239 <sup>2</sup>	1	◆
	Gear #2, A11651-0001 50:1 Motor	P10185	1	◆
	Gear, H06099-0001 50:1 Motor Output	P10186	1	◆
	Shaft, J06185-0001 50:1 Motor Gear	P10187	1	◆
	Ring, R01877-0007 50:1 Motor Retaining	P10188	1	◆
	Shaft, J06171-0305 50:1 Motor Output	P10189	1	
	Bearing, L06162-0001 50:1 Motor Front	P10190	1	◆
	Gear #4, A11652-0001 50:1 Motor	P10192	1	◆
	Bearing, L06163-0001 50:1 Motor Rear	P10193	1	◆
	Pin, 1" x 9/16" Dowel	S10528	1	
	Brush Kit, Gear Motor Replacement	P12800 <sup>3</sup>	1	
21	Connector, 14 Gauge Butt	F04875-1	2	

22	Pin, 1/8" X 3/4" Roll	F05012-6	1	
	Instruction Sheet, Blade Guide Arm Motor	A10353-296	1	
23	Sprocket, Gear Motor #25 14-Tooth	P09970 <sup>4</sup>	1	
24	Bracket, Blade Guide Arm Motor Mount	S09934	1	
25	Bolt, #10-32 X 1" Phillips Head	F05004-20 <sup>5</sup>	4	
26	Roller, Blade Guide Arm Chain Idler	S09999 <sup>6</sup>	1	
27	Bolt, 5/16-18 X 3 1/2" Hex Head Full Thread	F05006-3	1	
28	Spacer, 5/16" I.D. X 1 1/2"	S09996	1	
29	Washer, 5/16" SAE Flat	F05011-17	2	
30	Washer, 5/16" Split Lock	F05011-13	1	
31	Nut, 5/16-18 Hex Lock	F05010-6	1	
32	<b>COVER, BLADE GUIDE ARM MOTOR</b>	S11617	1	
	<b>GUARD, BLADE GUIDE ARM (G.S. ONLY)</b>	S12029 <sup>7</sup>	1	

<sup>1</sup> Replacement kit includes new gear motor ([See Section 2.7](#)). Four F05004-60 mounting screws and four F05011-20 split-lock washers included. New motor cover S11617 (U.S.) or S12029 (G.S.) required on Rev. C7 - D2.

<sup>2</sup> Gear kit for motors originally equipped on Rev. C7 - D2 only. [See Section 2.7](#) for new gear kit. Due to cost, gear kit and component parts are no longer available for Von Wiese motor (2/06). Upgrade to Klauber motor.

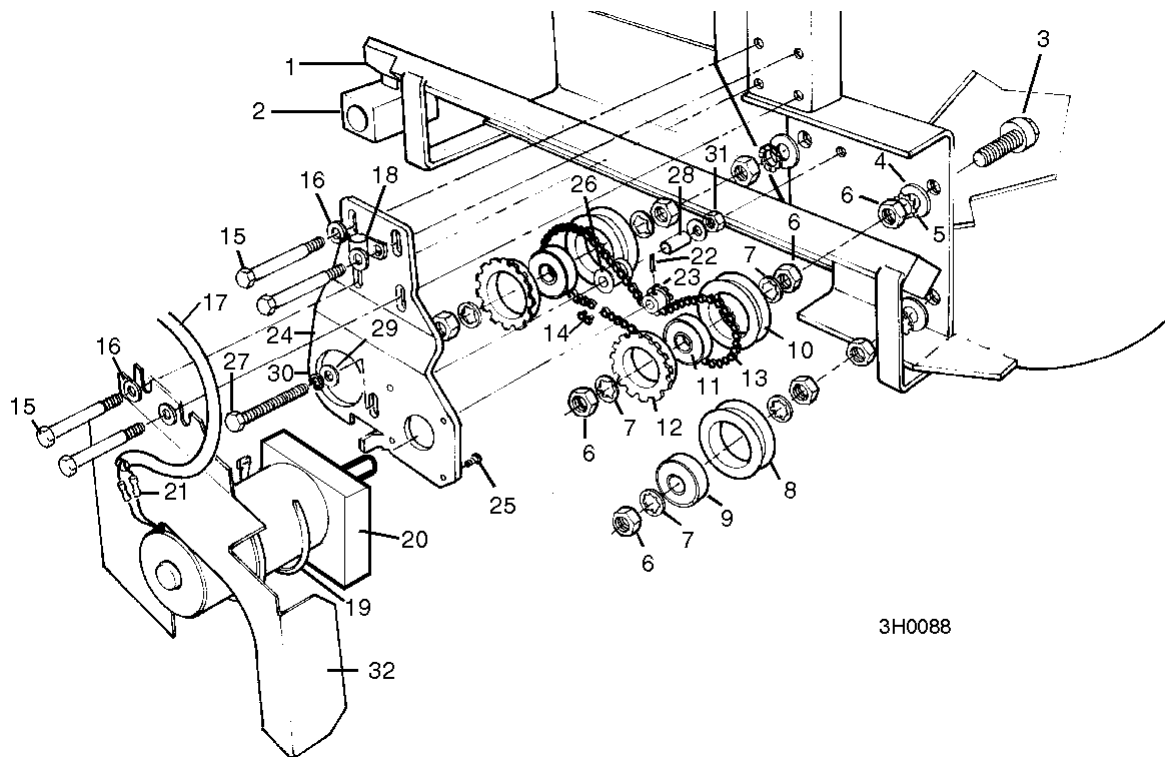
<sup>3</sup> Brush kit used for Von Wiese and Klauber gear motors.

<sup>4</sup> Sprocket modified 6/11 with threaded holes to accept included set screws (two F05004-274 #10-24 Full Dog Point Socket Set Screws replace 1/8" x 3/4" roll pin F05012-6). 14-Tooth sprocket replaces 13-tooth sprocket originally supplied before 5/93.

<sup>5</sup> Mounting screws for motors originally equipped on Rev. C7 - D2 only. [See Section 2.7](#) for new motor mounting screws.

<sup>6</sup> Replaces S09999-W. Part Number change only.

<sup>7</sup> Replaces S10433 originally supplied on Rev. C7 - C9.



**FIG. 2-8**

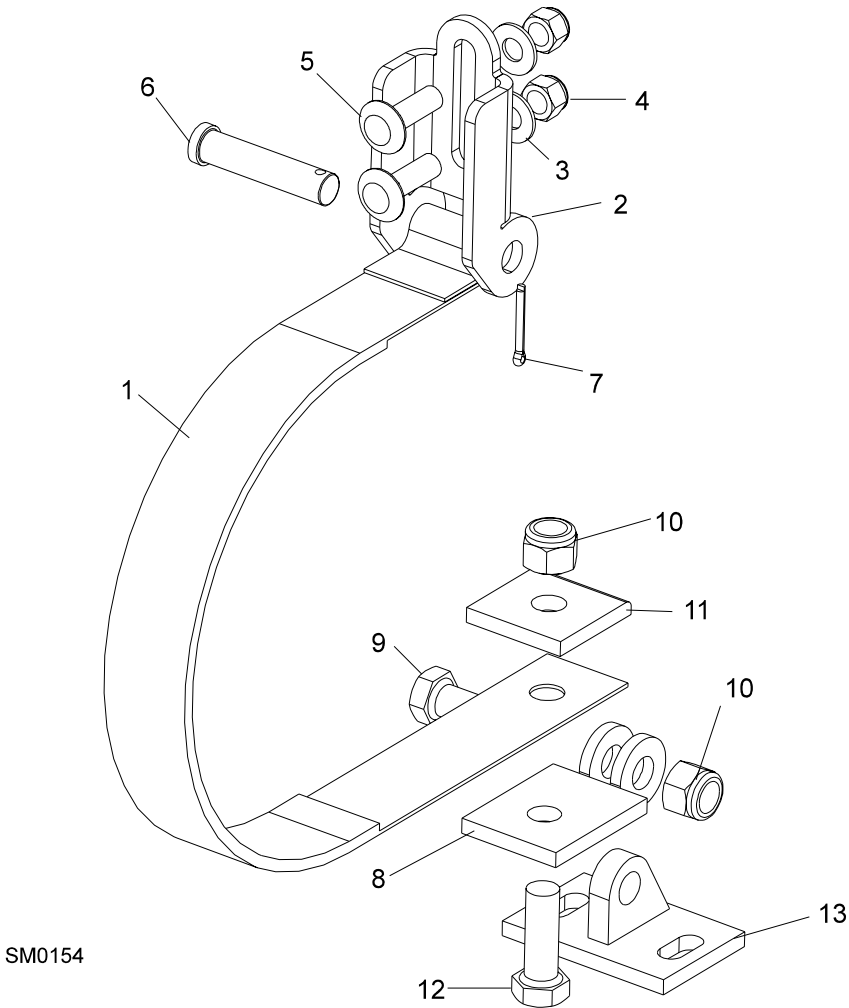
## 2 Blade Drive & Guides

### Brake Strap Assembly

<b>2.9 Brake Strap Assembly</b>				
	<i>LT30HD</i>	<i>Retrofit</i>		
	<i>LT40HD</i>	<i>Retrofit</i>		
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>STRAP KIT, UPPER PIVOT BRAKE</b>	014443	1	
1	Strap, Upper Pivot Brake	014391 <sup>1</sup>	1	
2	Bracket, Upper Brake Strap Mount	014397	1	
3	Washer, 3/8" SAE Flat	F05011-3	2	
4	Nut, 3/8-16 Hex Nylon Lock	F05010-10	2	
5	Bolt, 3/8-16 X 1 1/4" Carriage Head	F05007-11	2	
6	Pin, 1/2" x 2 1/4" Clevis	F05012-81 <sup>2</sup>	1	
7	Pin, 1/8" x 1" Cotter	F05012-1	1	
8	Bracket, Lower Brake Strap Mount	014392	1	
9	Bolt, 1/2-13 X 1 1/2" Hex Head	F05008-4	1	
10	Nut, 1/2-13 Hex Nylon Lock	F05010-8	2	
11	Plate, Brake Strap Clamp	S04195	1	
12	Bolt, 1/2-13 x 1 1/4" Hex Head Grade 5	F05008-37	1	
13	Bracket, Lower Brake Strap Mount (Pre-95)	W12792	1	
	Instruction Sheet, Standard Brake Strap Retrofit	014443-470	1	

<sup>1</sup> Use 014391 only if customer has retrofitted to upper pivot brake strap with kit 014443.

<sup>2</sup> Replaces 014396 originally supplied (duplicate parts).



SM0154

FIG. 2-9

# 2

## Blade Drive & Guides

### Clutch/Brake Lever Assembly

2.10 Clutch/Brake Lever Assembly				
<b>LT30HD</b>		<b>Rev. F2 - F7</b>		
<b>LT40HD</b>		<b>Rev. F2 - F7</b>		
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>LEVER ASSEMBLY, CLUTCH/BRAKE</b>	A12334	1	
1	Lever, Clutch/brake	W11571	1	◆
2	Knob, Plastic Round	P04211	1	
3	Bushing, Clutch/Brake Pivot	P05041	1	
4	Washer, Clutch/Brake Pivot	S11570	2	
5	Pin, 1/8" X 1 3/4" Cotter	F05012-43	1	
6	<b>BOLT, 3/8-16 X 1" SOCKET HEAD</b>	F05007-52	1	
7	<b>NUT, 3/8-16 HEX NYLON LOCK</b>	F05010-10	1	
8	<b>NUT, 7/16-20 HEX NYLON LOCK</b>	F05010-83	2	
9	<b>BOLT, 7/16-20 X 1 1/2" SOCKET HEAD</b>	F05007-55	2	
	<b>TURNBUCKLE ASSEMBLY, CLUTCH/BRAKE LEVER (G18/G24/G25/E15)</b>	A11576 <sup>1</sup>	1	
	<b>TURNBUCKLE ASSEMBLY, CLUTCH/BRAKE LEVER (D20)</b>	A12304	1	
10	Rod End, 7/16-20 Right Hand Thread	P11579 <sup>2</sup>	1	
11	Nut, 7/16-20 Hex Jam	F05010-38	1	
12	Turnbuckle, 3 1/2" Clutch/Brake Lever (G18/G24/G25/E15)	S12262 <sup>3</sup>	1	◆
	Turnbuckle, 3" Clutch/Brake Lever (D20)	S11577	1	◆
13	Nut, 7/16-20 Hex Jam Left Hand Thread	F05010-87	1	
14	Rod End, 7/16-20 Left Hand Thread	P11578 <sup>2</sup>	1	
15	<b>BOLT, 1/2-13 X 1 1/2" HEX HEAD</b>	F05008-4	1	
16	<b>PLATE, UPPER BRAKE STRAP CLAMP</b>	S04195	1	
17	<b>NUT, 1/2-13 HEX NYLON LOCK</b>	F05010-8	1	
	<b>RETROFIT KIT, METAL-BACKED BRAKE STRAP</b>	K12820 <sup>4</sup>	1	◆
18	Strap, Metal-Backed Brake	P12791 <sup>4</sup>	1	◆
19	Plate, Lower Brake Strap Clamp	W12792	1	
20	Washer, Brake Strap	S12804 <sup>4</sup>	1	◆
21	Bolt, 1/2-13 x 2 1/4" Hex Head Grade 5	F05008-10	1	
22	Nut, 1/2-13 Nylon Hex Lock	F05010-8	1	
23	<b>NUT, 3/8-16 HEX NYLON LOCK</b>	F05010-10	2	
24	<b>BOLT, 3/8-16 X 1 1/4" CARRIAGE HEAD</b>	F05007-11	2	

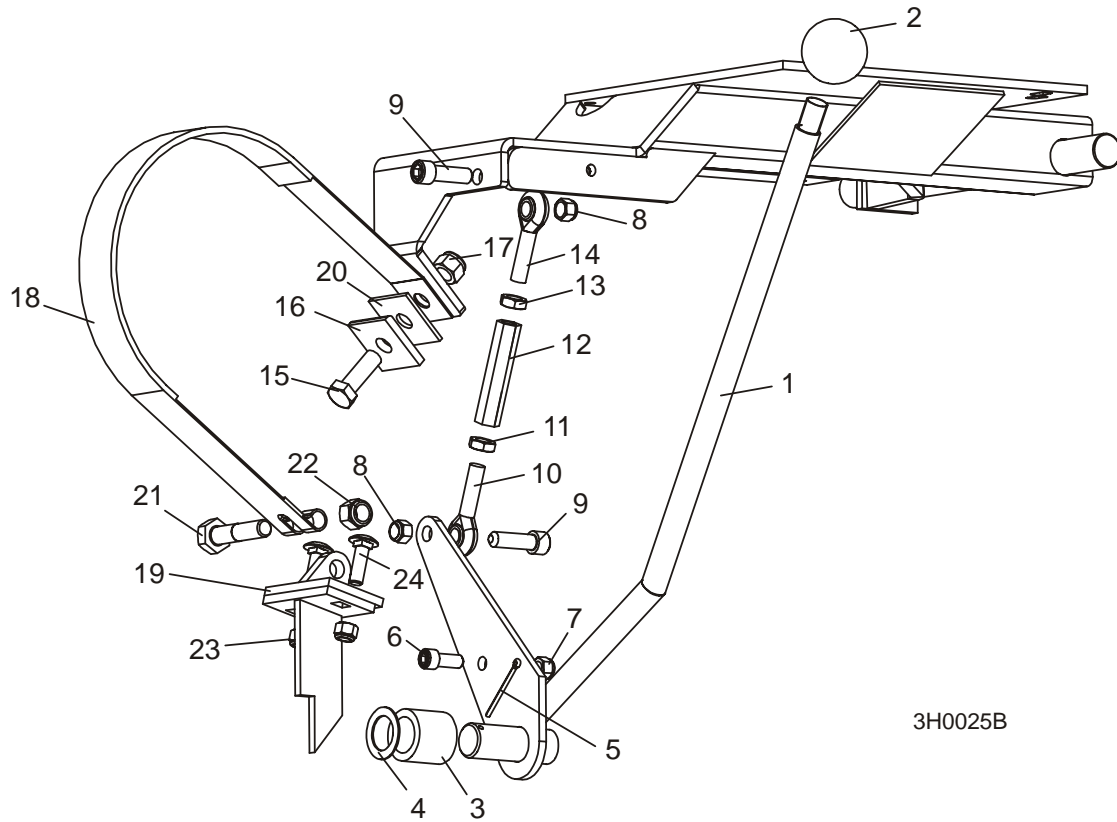
<sup>1</sup> Replaces A12304 on Rev. C7 - D5 G24/E15. Longer turnbuckle provides more drive belt adjustment.

<sup>2</sup> Left and Right Hand Ends may be positioned at opposite end of turnbuckle. Check carefully before ordering.

<sup>3</sup> Replaces S12262-W. Part Number change only. Turnbuckle revised from 3 3/4" to 3 1/2" to provide increased adjustment (9/03).

<sup>4</sup> Brake Strap parts obsolete. Retrofit brake strap and mounting hardware with 014443. [See Section 2.9.](#)





3H0025B

FIG. 2-10

# 2

## Blade Drive & Guides

### Clutch/Brake Lever Assembly

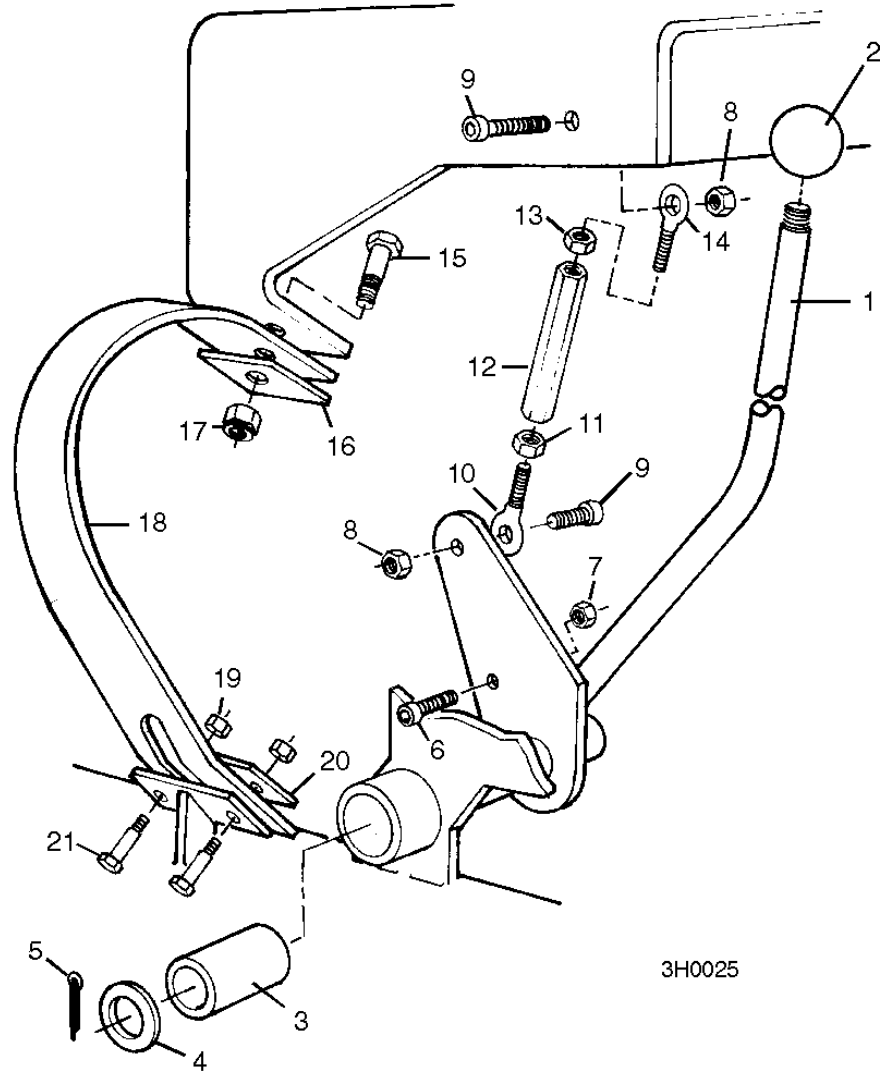
2.11 Clutch/Brake Lever Assembly				
<b>LT30HD</b>		<b>Rev. C7 - F1</b>		
<b>LT40HD</b>		<b>Rev. C7 - F1</b>		
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>LEVER ASSEMBLY, CLUTCH/BRAKE</b>	A12334	1	
1	Lever, Clutch/Brake	W11571	1	◆
2	Knob, Plastic Round	P04211	1	
3	Bushing, Clutch/Brake Pivot	P05041	1	
4	Washer, Clutch/Brake Pivot	S11570	2	
5	Pin, 1/8" X 1 3/4" Cotter	F05012-43	1	
6	<b>BOLT, 3/8-16 X 1" SOCKET HEAD</b>	F05007-52	1	
7	<b>NUT, 3/8-16 HEX NYLON LOCK</b>	F05010-10	1	
8	<b>NUT, 7/16-20 HEX NYLON LOCK</b>	F05010-83	2	
9	<b>BOLT, 7/16-20 X 1 1/2" SOCKET HEAD</b>	F05007-55	2	
	<b>TURNBUCKLE ASSEMBLY, CLUTCH/BRAKE LEVER (G18/G24/G25/E15)</b>	A11576 <sup>1</sup>	1	
	<b>TURNBUCKLE ASSEMBLY, CLUTCH/BRAKE LEVER (D20)</b>	A12304	1	
10	Rod End, 7/16-20 Right Hand Thread	P11579 <sup>2</sup>	1	
11	Nut, 7/16-20 Hex Jam	F05010-38	1	
12	Turnbuckle, 3 1/2" Clutch/Brake Lever (G18/G24/G25/E15)	S12262 <sup>3</sup>	1	◆
	Turnbuckle, 3" Clutch/Brake Lever (D20)	S11577	1	◆
13	Nut, 7/16-20 Hex Jam Left Hand Thread	F05010-87	1	
14	Rod End, 7/16-20 Left Hand Thread	P11578 <sup>2</sup>	1	
15	<b>BOLT, 1/2-13 X 1 1/2" HEX HEAD</b>	F05008-4	1	
16	<b>PLATE, UPPER BRAKE STRAP CLAMP</b>	S04195	1	
17	<b>NUT, 1/2-13 HEX NYLON LOCK</b>	F05010-8	1	
18	<b>STRAP, COTTON BRAKE</b>	M07484 <sup>4</sup>	1	
19	<b>NUT, 3/8-16 HEX NYLON LOCK</b>	F05010-10	2	
20	<b>PLATE, LOWER BRAKE STRAP CLAMP</b>	S04123	1	
21	<b>BOLT, 3/8-16 X 1 1/4" CARRIAGE HEAD</b>	F05007-11	2	

<sup>1</sup> Replaces A12304 on Rev. C7 - D5 G24/E15. Longer turnbuckle provides more drive belt adjustment.

<sup>2</sup> Left and Right Hand Ends may be positioned at opposite end of turnbuckle. Check carefully before ordering.

<sup>3</sup> Replaces S12262-W. Part Number change only. Turnbuckle revised from 3 3/4" to 3 1/2" to provide increased adjustment (9/03).

<sup>4</sup> Replaces leather brake strap originally supplied on Rev. C7 - F1. Customers may retrofit to metal-backed brake strap (014443). [See Section 2.9.](#)



3H0025

FIG. 2-11

## 2 Blade Drive & Guides

### Water Lube Assembly

<b>2.12 Water Lube Assembly</b>				
<i>LT30HD</i>		<i>Retrofit</i>		
<i>LT40HD</i>		<i>Retrofit</i>		
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>TRAY ASSEMBLY, FUEL TANK/WATER BOTTLE</b>	A11685	1	
1	Tray, Fuel Tank/Water Bottle	S11684	1	◆
2	Strap, 24" Rubber (For Fuel Tank - See Engine Manual)	P11258	2	
3	Strap, 20" Rubber	P11668	2	
4	Bolt, 1/4-20 X 1" Carriage Head	F05005-34	4	
5	Nut, 1/4-20 Hex Lock	F05010-21	4	
6	<b>BOLT, 1/4-20 X 1" CARRIAGE HEAD</b>	F05005-34	1	
7	<b>BOLT, 1/4-20 X 1/2" CARRIAGE HEAD</b>	F05005-33	2	
8	<b>CLAMP, 1/2" EMT HOSE</b>	P07584	3	
9	<b>WASHER, 1/4" SAE FLAT</b>	F05011-11	3	
10	<b>NUT, 1/4-20 HEX LOCK</b>	F05010-21	1	
11	<b>STRAP, 15" RUBBER</b>	P07461	1	
12	<b>NUT, 1/4-20 SELF-LOCKING</b>	F05010-9	2	
13	<b>BOTTLE ASSY, WATER LUBE W/CAP</b>	014642 <sup>1</sup>	1	
14	<b>FITTING, 3/4FPT X 3/4 MPT</b>	014636 <sup>2</sup>	1	
15	<b>FITTING, WATER LUBE SHUTOFF VALVE</b>	014100 <sup>2</sup>	1	
16	<b>FILTER, WATER LUBE</b>	016086 <sup>3</sup>	1	
17	<b>FITTING, 5/8" NPT TO 3/8" HOSE BARB</b>	014113 <sup>2</sup>	1	
18	<b>TUBING, WATER LUBE 3/8" I.D.</b>	R01885	7 ft.	

<sup>1</sup> Use Water Bottle Assembly w/Cap 014642 to service all bottle/cap combinations previously supplied. Bottle 014367, 61mm Cap 014773 and 70mm Cap 036744 no longer available separately. 014642 Bottle Kit replaces P04357 bottle originally supplied (requires fittings 014636, 014113, and valve 014100).

<sup>2</sup> Fittings apply only to retrofit bottle supplied after 3/97. [See Section 2.13](#) for original bottle replacement parts.

<sup>3</sup> Filter recommended for Super models to prevent debris from entering water lube solenoid valve.

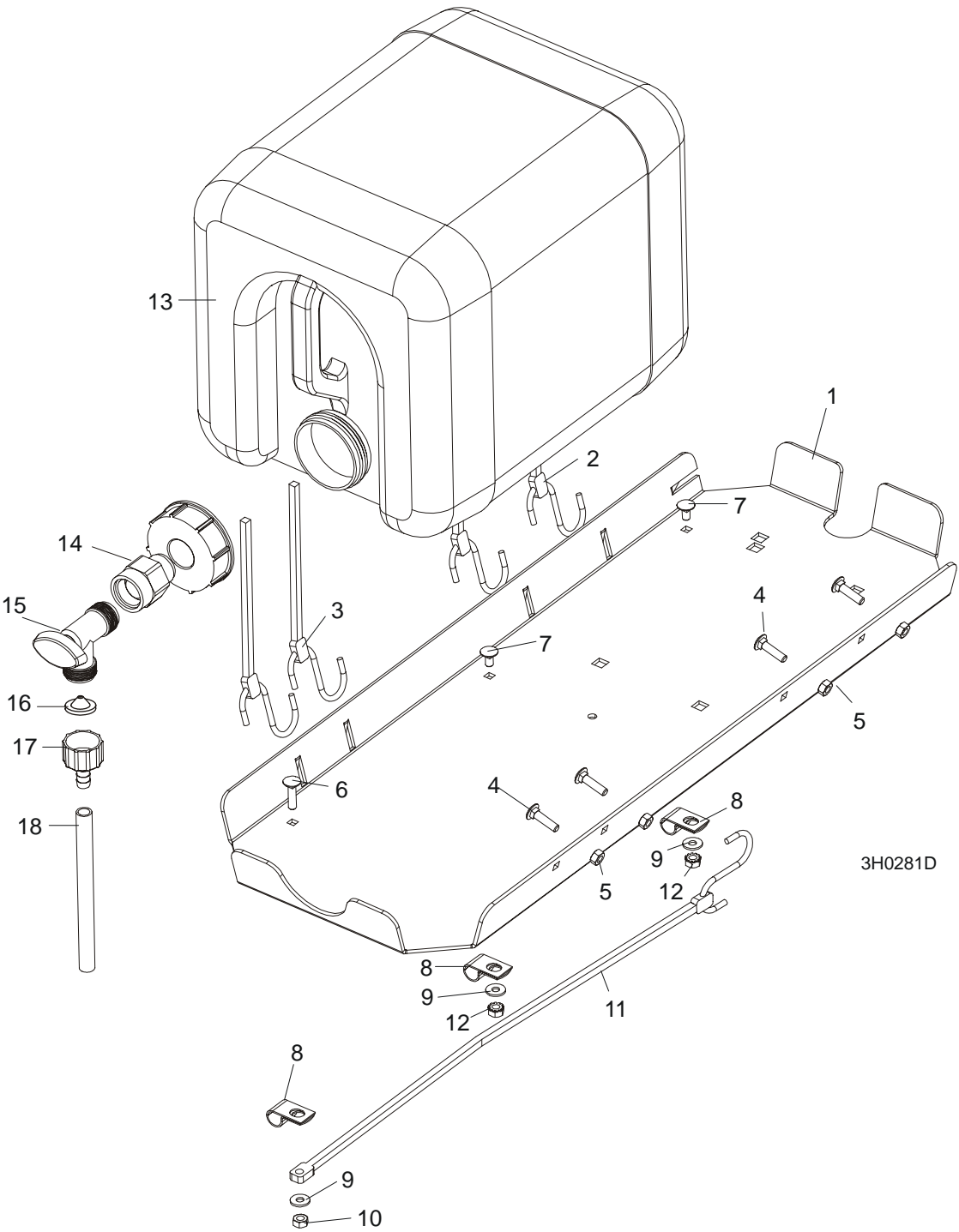


FIG. 2-12

# 2

## Blade Drive & Guides

### Water Lube Assembly

2.13 Water Lube Assembly				
<i>LT30HD</i>		<i>Rev. C7 - F7</i>		
<i>LT40HD</i>		<i>Rev. C7 - F7</i>		
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>TRAY ASSEMBLY, FUEL TANK/WATER BOTTLE</b>	A11685	1	
1	Tray, Fuel Tank/Water Bottle	S11684	1	◆
2	Strap, 20" Rubber	P11668	2	
3	Strap, 24" Rubber	P11258 <sup>1</sup>	2	
4	Bolt, 1/4-20 X 1" Carriage Head	F05005-34	4	
5	Nut, 1/4-20 Hex Lock	F05010-21	4	
6	<b>BOTTLE, 5 GALLON WATER</b>	P04357 <sup>2</sup>	1	◆
7	Cap, 5 Gallon Water Bottle	P09088 <sup>2</sup>	1	
8	<b>FITTING, 3/4" TO 1/4" REDUCER</b>	P04695 <sup>3</sup>	1	
9	<b>VALVE, WATER FLOW</b>	P04669 <sup>3</sup>	1	
10	<b>FITTING, 3/8" HOSE BARB</b>	P04730 <sup>3</sup>	1	
11	<b>HOSE, PLASTIC WATER LUBE</b>	R01885	6.5 Ft	

<sup>1</sup> Tank tray includes 24" strap to secure 5-gallon fuel tank. Order two P07461 15" straps if 3-gallon tank used.

<sup>2</sup> Use Water Bottle Assembly w/Cap 014642 to service all bottle/cap combinations previously supplied. Bottle 014367, 61mm Cap 014773 and 70mm Cap 036744 no longer available separately. Bottle P04357 & Cap P09088 no longer available. New bottle 014642 available 3/97 provides higher UV resistance ([See Section 2.12](#)).

<sup>3</sup> Fittings and valve apply only to original P04357 bottle. [See Section 2.12](#) for replacement parts if bottle replaced after 3/97.

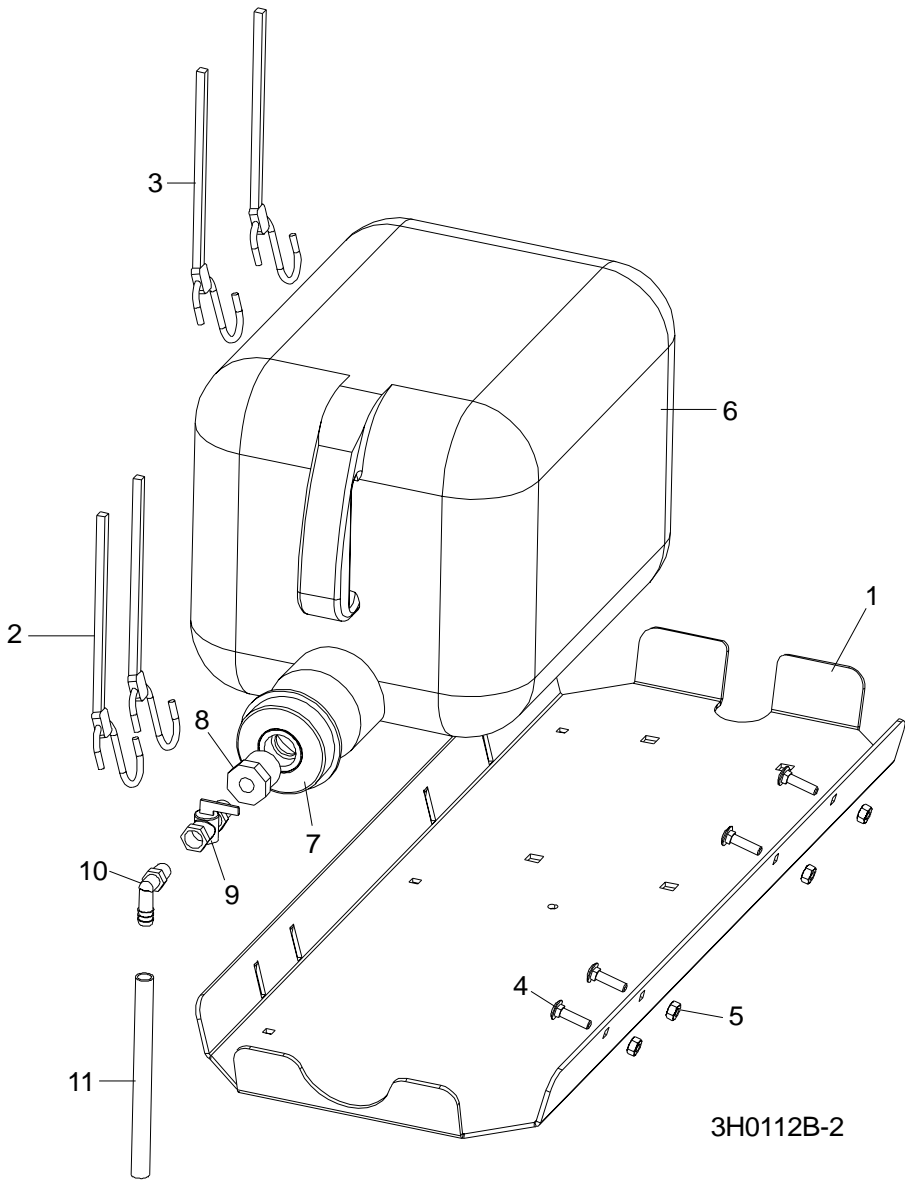


FIG. 2-13

## 2 Blade Drive & Guides

### Middle Throat Screw

2.14 Middle Throat Screw				
<i>LT30HD</i>		<i>Rev. D1 - F7</i>		
<i>LT40HD</i>		<i>Rev. D1 - F7</i>		
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
1	SCREW, 3/8-16 X 1 1/4" OVAL POINT SOCKET SET	F05007-18	1	
2	NUT, 3/8-16 HEX JAM	F05010-29	1	

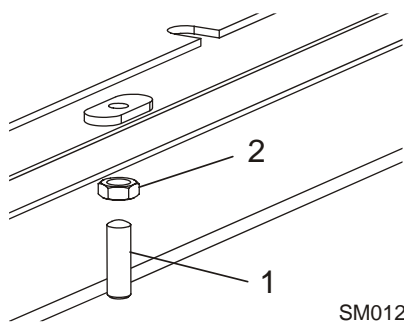


FIG. 2-14

2.15 Middle Throat Cam				
<i>LT30HD</i>		<i>Rev. C7 - C9</i>		
<i>LT40HD</i>		<i>Rev. C7 - C9</i>		
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
1	BOLT, 3/8-16 X 3" HEX HEAD FULL THREAD	F05007-73	1	
2	NUT, 3/8-16 HEX SELF-LOCKING	F05010-19	2	
3	CAM, MIDDLE THROAT	S11818	1	

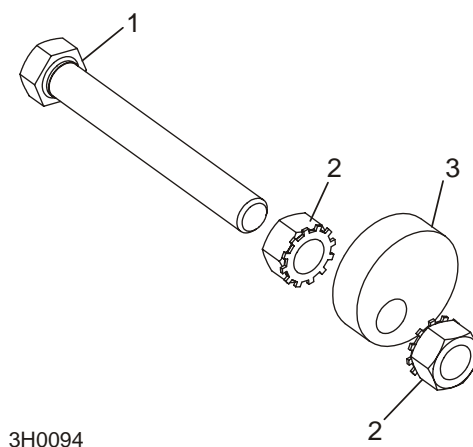


FIG. 2-15





## SECTION 3 DECALS & SAW HEAD COVERS

<b>3.1 Safety Decals</b>				
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
1	DECAL, BLADE TENSION CAUTION	P10147	1	
2	DECAL, SAWDUST CHUTE CAUTION	P11754	1	
3	DECAL, BLADE DANGER ARROW LEFT	S11751 <sup>1</sup>	3	◆
4	DECAL, FENDER DAMAGE CAUTION	S11761	2	
5	DECAL, MOVING PARTS DANGER	033254 <sup>2</sup>	2	
6	DECAL, BLADE DANGER ARROW RIGHT	S11752	1	
7	DECAL, UP/DOWN CAUTION	S11762	1	
8	DECAL, EYE/EAR WARNING	S11753	1	
9	DECAL, PINCH POINT CAUTION	P10287	1	
10	DECAL, ELECTRICAL HAZARD DANGER	S20061	1	
11	DECAL, KEEP AWAY WARNING (HYDRAULIC CONTROL BOX REV E7 - F7)	S12726	1	
	DECAL, KEEP AWAY WARNING (HYDRAULIC CONTROL BOX REV. C7 - E6)	S11760	1	
12	DECAL, KEEP AWAY WARNING (HYDRAULIC SAWMILL FRAME)	S09851	1	
13	DECAL, 12 VOLT POWER SUPPLY CAUTION	P10364	1	
14	DECAL, SAW HEAD REST CAUTION (ADDED 4/94)	S12581	1	

<sup>1</sup> Decal no longer used. Use 033254 on outside of blade housing covers.

<sup>2</sup> Replaces S20039 originally supplied.



HD0005

FIG. 3-1

# 3 Decals & Saw Head Covers

## Saw Head Covers

<b>3.2 Saw Head Covers</b>				
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>COVER, DRIVE SIDE BLADE HOUSING WITH HANDLE</b>	A09420	1	
1	Cover, Drive Side Blade Housing	W07948	1	◆
2	Handle, Blade Housing Cover	P08065	1	
3	Screw, #8-32 X 3/8" Self-Tap	F05015-8	2	
	Pin Assembly, Cover Retainer	A12812 <sup>1</sup>	1	
4	Pin, Safety Retainer	P05059	1	
	Cable, 1/8" O.D. Coated Nylon	R02075	.92 Ft.	
	Clamp, 1/8" Dual Cable	P11830	1	
	<b>COVER, IDLE SIDE BLADE HOUSING WITH HANDLE</b>	A09419	1	
5	Cover, Idle Side Blade Housing	W09351	1	◆
2	Handle, Blade Housing Cover	P08065	1	
3	Screw, #8-32 X 3/8" Self-Tap	F05015-8	2	
	Pin Assembly, Cover Retainer	A12812 <sup>1</sup>	1	
4	Pin, Safety Retainer	P05059	1	
	Cable, 1/8" O.D. Coated Nylon	R02075	.92 Ft.	
	Clamp, 1/8" Dual Cable	P11830	1	
6	<b>COVER, MIDDLE BLADE HOUSING</b>	W07409 <sup>2</sup>	1	
	DECAL, LT30HDD20	S12588	1	
	DECAL, LT30HDE15	S12589	1	
	DECAL, LT30HDG24	S12590	1	
	DECAL, LT40HDD20	S12595	1	
	DECAL, LT40HDE15	S12596	1	
	DECAL, LT40HDG24	S12597	1	
	DECAL, LT40HDG25	S12598	1	
7	<b>BOLT, 1/4-20 X 3/4" HEX HEAD</b>	F05005-1	2	
8	<b>HINGE, MIDDLE BLADE HOUSING COVER</b>	S07522	2	
9	<b>NUT, COVER TURN</b>	021145 <sup>3</sup>	3	
10	<b>GUARD, CLUTCH LEVER</b>	W11772	1	
11	<b>GUARD, DRIVE PULLEY SIDE</b>	W11537 <sup>4</sup>	1	
	<b>BOLT, 1/4-20 X 3/4" HEX HEAD</b>	F05005-1	5	
12	<b>GUARD, DRIVE PULLEY TOP</b>	W11750	1	
13	<b>GUARD, LOWER DRIVE BELT (REV. D5 11/92+)</b>	W12288	1	
	<b>GUARD, LOWER DRIVE BELT (REV. C7 - D5 10/92)</b>	W11697 <sup>5</sup>	1	
14	<b>GUARD, ENGINE/MOTOR PULLEY (G25/E15)</b>	W09010	1	
	<b>GUARD, ENGINE PULLEY (G24)</b>	W10272	1	
	<b>GUARD, ENGINE PULLEY (D20)</b>	W12146	1	

<sup>1</sup> Hole must be drilled in cover pin to accept retainer pin. Retainer secures cover while traveling.

<sup>2</sup> Replaces W12123 and W12125 on Rev. C7 - E8 . Order appropriate model decal for cover label.

<sup>3</sup> Directly replaces W07511 nut weldment (8/97).

<sup>4</sup> Guard W11537 modified 3/09. Cutout added to accommodate Simple Set encoder sensor. Plate 006870 added to cover cutout on sawmills without Simple Set. Plate 006870 modified 10/09 to accommodate Super model covers.

<sup>5</sup> Replaces S11697 on Rev. C7 - D1LT30 Rev. C4 - C6 and LT40 Rev. C5 - C7. Includes formed tab with slot for mounting.

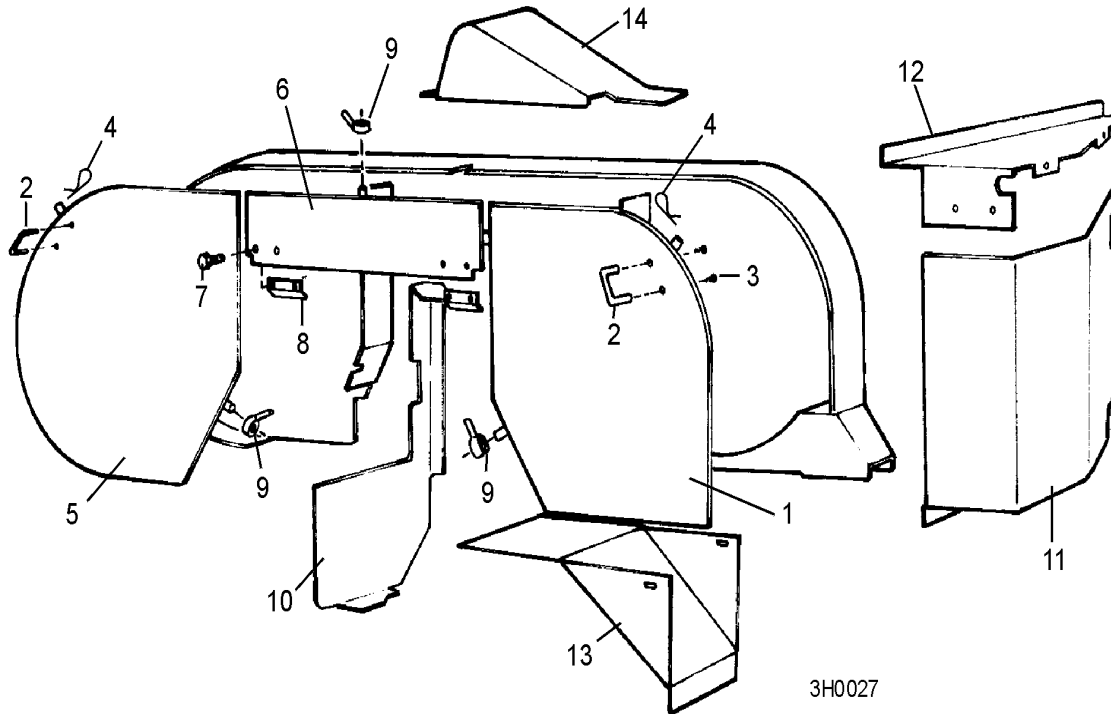


FIG. 3-2

# 4

## Control & Battery Boxes

Control Assembly, LT30HD/LT40HD (U.S.)

### SECTION 4 CONTROL & BATTERY BOXES

4.1 Control Assembly, LT30HD/LT40HD (U.S.)				
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	CONTROL BOX ASSEMBLY, G24	A11981-W	1	
	CONTROL BOX ASSEMBLY, G25	A12574-W	1	
	CONTROL BOX ASSEMBLY, E15	A11982-W	1	
	CONTROL BOX ASSEMBLY, D20	A12130-W	1	
1	Box Weldment, Sawmill Control	W11621 <sup>1</sup>	1	
2	Cover, Control Box Hinged	W11636	1	
3	Rivet, 3/16" x 1/4" Aluminum Pop	F04203-7 <sup>2</sup>	3	
4	Switch, Power Feed Drum (U.S.)	E20439	1	
5	Spring, Drum Switch	P12570	1	
6	Handle, Drum Switch Replacement	P12500	1	
7	Switch, Up/Down Drum	E20440	1	
5	Spring, Drum Switch	P12570	1	
6	Handle, Drum Switch Replacement	P12500	1	
	Panel Assembly, Control Front (G24, D20, E15, G25)	A20435	1	
8	Panel (With Alternator Label), G24/D20/E15/G25 Control	S11632-1	1	◆
9	Light, 12v Red Alternator Indicator (G24, D20, E15, G25 Only)	P04986 <sup>3</sup>	1	
10	Light, 12v Green Indicator	P20436 <sup>4</sup>	1	
11	Meter, Hour	P09631	1	
12	Switch, Key	P04350	1	
13	Switch, Toggle	P10006	1	
14	Boot, Toggle Switch Rubber	P02575	1	
15	Switch Assembly, Feed Rate	024450-1 <sup>5</sup>	1	
16	Knob, Feed Rate With Set Screw	P06257	1	
17	Harness, Upper G24 Wiring	A20442	1	
	Harness, Upper E15 Wiring	A20449	1	
	Harness, Upper D20 Wiring	A12158	1	
	Harness, Upper G25 Wiring	A20477	1	
18	Harness, Lower G18/G24/E15/G25 Wiring	A20479	1	
	Harness, Lower D20 Wiring	A12157	1	
19	Circuit Board Assembly, Power Feed	024495 <sup>6</sup>	1	
	Module Assembly, 92-96 Power Feed Mosfet	024540 <sup>7</sup>	1	
	Module Assembly, 92-96 SMT Power Feed Control	024396-96 <sup>7</sup>	1	
	Suppressor Assembly, Power Feed	052294 <sup>8</sup>	1	
	Capacitor Assembly, Power Feed Filter	052365	1	
	Diode Assembly, Power Feed Replacement	052363	1	
	Breaker Assembly (U.S.), Sawmill Control Circuit	A20433	1	

20	Breaker, 30 Amp Auto Reset	E20486 <sup>9</sup>	1	
21	Bracket, Circuit Breaker	S11656-N	1	
22	Screw, #8-32 X 1/2" Slotted Head	F05004-12	2	
23	Nut, #8-32 Hex Self-Locking	F05010-41	2	
24	Pad, Rubber Bumper	P08184	4	
25	Panel, Control Box Front Access	S11625	1	
26	Screw, #10-24 x 1/2" Pan Head	F05015-17	6	
	Cup Assembly, Drum Switch Grease	A20463	1	
27	Cup, Plastic Container	P20464	1	◆
28	Pad, Velcro Loop	P20466	1	◆
29	Pad, Velcro Hook	P20465	1	◆
30	Decal, Grease Cup Label	P20467	1	
	Grease, High Temp Drum Switch	P20468	.025 Lb	◆
31	<b>TUBE, CONTROL BOX MOUNT</b>	W11640	1	

<sup>1</sup> Replaces W11620-W on Rev. C7 - D5. Also order access panel S11625 & six screws F05015-17.

<sup>2</sup> Replaces #10-24 x 1/2" screw (F05015-17) & #10-24 nut (F05010-14).

<sup>3</sup> Replaces P20480 on Rev. D2 - D5. Includes E20482 red light, wire, terminals, and instructions.

<sup>4</sup> Replaces P20481 on Rev. D2 - D5. Includes E20483 green light, wire, terminals, and instructions.

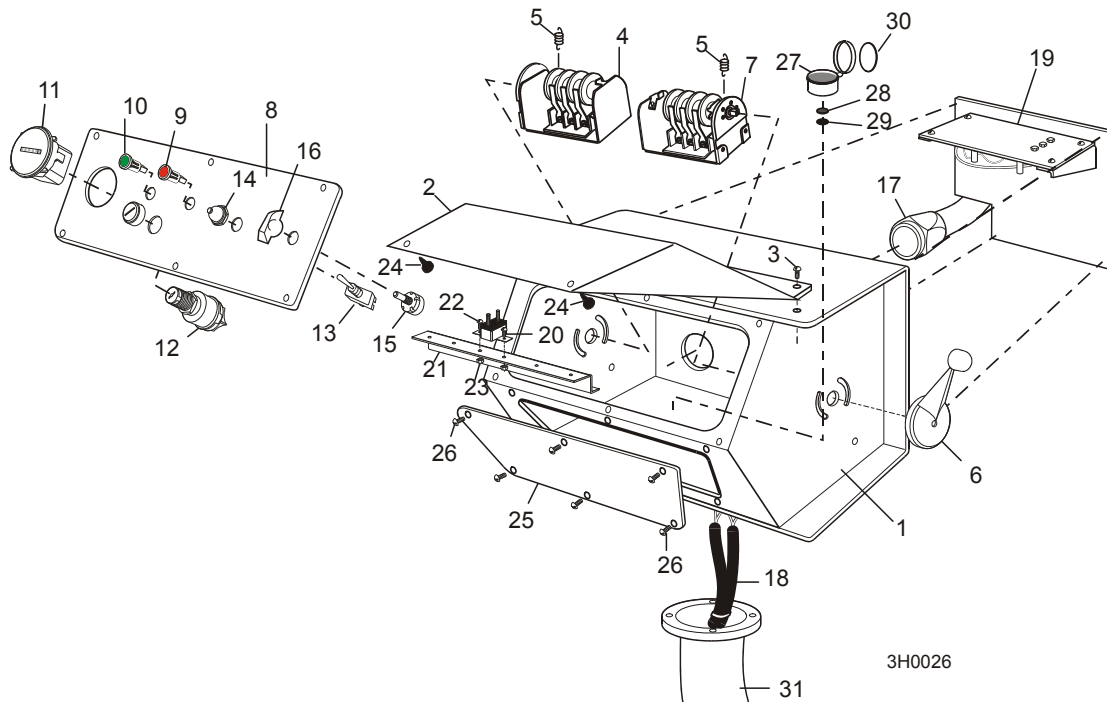
<sup>5</sup> Replaces A20437 and 015408 originally supplied.

<sup>6</sup> 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.

<sup>7</sup> Modules apply to 024495 power feed control only.

<sup>8</sup> Suppressor Assembly 052294 added 6/05 to protect feed circuit.

<sup>9</sup> 30 Amp breaker replaces E20434 50 Amp breaker 10/9/95. A retrofit is available which provides a second circuit breaker. This will allow the power feed and up/down to be operated at the same time without nuisance tripping of the breaker. Order kit #024235.



**FIG. 4-1**

## 4

**Control & Battery Boxes***Control Assembly, LT30HD/LT40HD (G.S.)*

<b>4.2 Control Assembly, LT30HD/LT40HD (G.S.)</b>				
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>CONTROL BOX ASSEMBLY, G24S</b>	A11986-W	1	
	<b>CONTROL BOX ASSEMBLY, E15S</b>	A11987-W	1	
	<b>CONTROL BOX ASSEMBLY, D20S</b>	A12131-W	1	
1	Box Weldment, Sawmill Control	W11621 <sup>1</sup>	1	
2	Cover, Control Box Hinged	W11636	1	
3	Rivet, 3/16" x 1/4" Aluminum Pop	F04203-7 <sup>2</sup>	3	
4	Switch, Power Feed Drum (G.S.)	N/A	1	
5	Spring, Drum Switch	P12570	1	
6	Handle, Drum Switch Replacement	P12500	1	
7	Switch, Up/Down Drum	E20440	1	
5	Spring, Drum Switch	P12570	1	
6	Handle, Drum Switch Replacement	P12500	1	
	Panel Assembly, Control Front (G24s, D20s, E15s)	A20448	1	
8	Panel (With Alternator Label)	S11632-1	1	◆
9	Light, 12v Red Alternator Indicator	P04986 <sup>3</sup>	1	
10	Light, 12v Green Indicator	P20436 <sup>4</sup>	1	
11	Meter, Hour	P09631	1	
12	Switch, Key	P04350	1	
13	Switch, Toggle	P10006	1	
14	Boot, Toggle Switch Rubber	P02575	1	
15	Switch Assembly, Feed Rate	024450-1 <sup>5</sup>	1	
16	Knob, Feed Rate With Set Screw	P06257	1	
17	Harness, Upper G24s Wiring	A20447	1	
	Harness, Upper E15s Wiring	A20450	1	
	Harness, Upper D20s Wiring	A12159	1	
18	Harness, Lower G24s/E15s Wiring	A20476	1	
	Harness, Lower D20s Wiring	A12157	1	
19	Circuit Board Assembly, Power Feed	024495 <sup>6</sup>	1	
	Module Assembly, 92-96 Power Feed Mosfet	024540 <sup>7</sup>	1	
	Module Assembly, 92-96 SMT Power Feed Control	024396-96 <sup>7</sup>	1	
	Suppressor Assembly, Power Feed	052294 <sup>8</sup>	1	
	Capacitor Assembly, Power Feed Filter	052365	1	
	Diode Assembly, Power Feed Replacement	052363	1	
	Breaker Assembly (G.S.), Sawmill Control Circuit	A20429	1	
	20	Breaker, 15 Amp Manual Reset	E20430	3
21	Breaker, 30 Amp Manual Reset	E20431	1	
22	Breaker, 50 Amp Manual Reset	E20432	1	
23	Bracket, Circuit Breaker	S11656-N	1	
24	Screw, #8-32 X 1/2" Slotted Head	F05004-12	8	



25	Nut, #8-32 Hex Self-Locking	F05010-41	8	
26	Pad, Rubber Bumper	P08184	4	
27	Panel, Control Box Front Access	S11625	1	
28	Screw, #10-24 x 1/2" Pan Head	F05015-17	6	
	Cup Assembly, Drum Switch Grease	A20463	1	
29	Cup, Plastic Container	P20464	1	◆
30	Pad, Velcro Loop	P20466	1	◆
31	Pad, Velcro Hook	P20465	1	◆
32	Decal, Grease Cup Label	P20467	1	
	Grease, High Temp Drum Switch	P20468	.025 Lb	◆
33	<b>TUBE, CONTROL BOX MOUNT</b>	W11640	1	

<sup>1</sup> Replaces W11622-W on Rev. C7 - D5. Also order access panel S11625 & six screws F05015-17.

<sup>2</sup> Replaces #10-24 x 1/2" screw (F05015-17) & #10-24 nut (F05010-14).

<sup>3</sup> Replaces P20480 on Rev. D2 - D5. Includes E20482 red light, wire, terminals, and instructions.

<sup>4</sup> Replaces P20481 on Rev. D2 - D5. Includes E20483 green light, wire, terminals, and instructions.

<sup>5</sup> Replaces A20437 and 015408 originally supplied.

<sup>6</sup> 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.

<sup>7</sup> Modules apply to 024495 power feed control only.

<sup>8</sup> Suppressor Assembly 052294 added 6/05 to protect feed circuit.

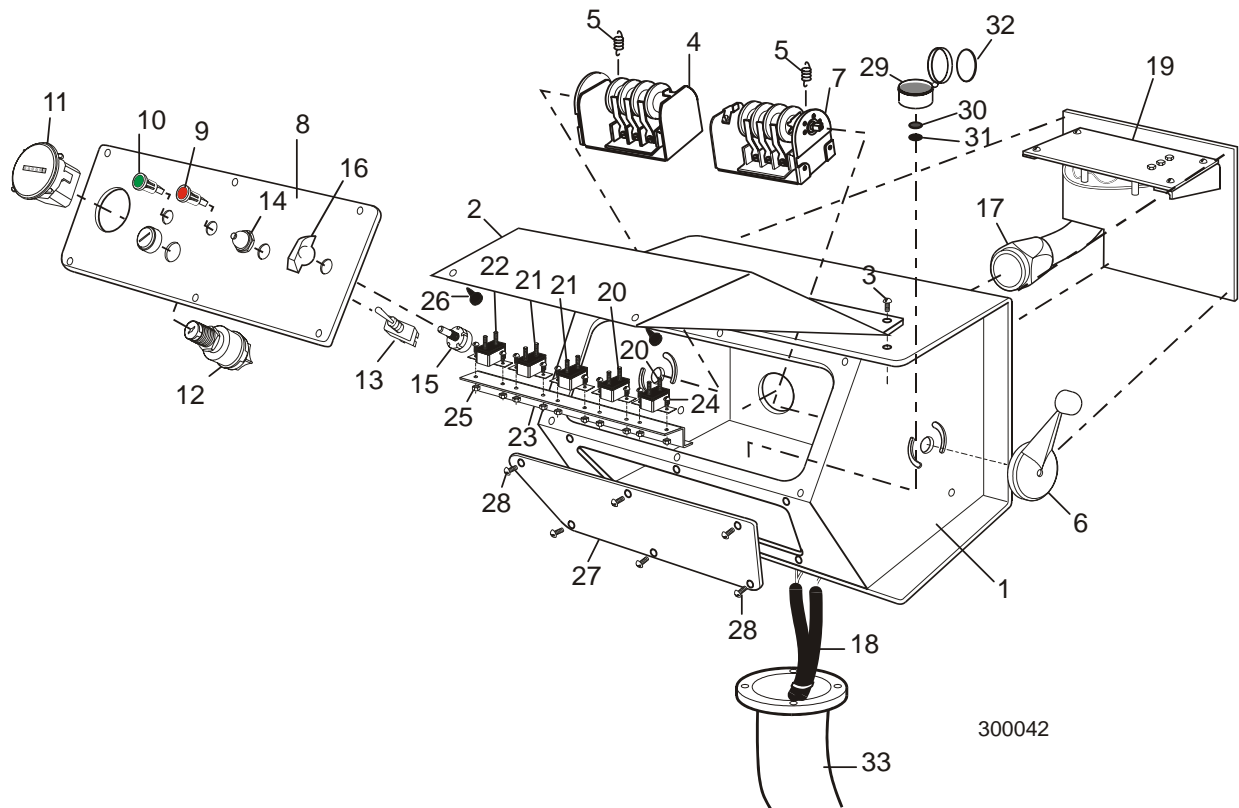


FIG. 4-2



<b>4.3 Battery Box Assembly, LT30HD/LT40HD</b>				
<i>LT30HD</i>		<i>Rev. E3 - F7</i>		
<i>LT40HD</i>		<i>Rev. E3 - F7</i>		
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART NUMBER	QTY.	
1	BATTERY, 8T24 DEKA 12 VOLT DEEP CYCLE DRY (G24/G24S/G25/E15/E15S)	P09853-1 <sup>1</sup>	1	
	BATTERY, 875CC DEKA TYPE 24F (D20/D20S)	P12315 <sup>2</sup>	1	◆
	BOX ASSEMBLY, 8T24 BATTERY (U.S. G24/G25/E15 MODELS)	A11938 <sup>3</sup>	1	
	BOX ASSEMBLY, 8T24 BATTERY (G.S. G24S/E15S MODELS)	A11978 <sup>3</sup>	1	
	BOX ASSEMBLY, 875 BATTERY (U.S. D20 MODELS)	A12128 <sup>3</sup>	1	
	BOX ASSEMBLY, 875 BATTERY (G.S. D20S MODELS)	A12129 <sup>3</sup>	1	
2	Terminal, Battery	P05085	2	
3	Washer, Battery Terminal	P12161	1	
4	Retainer Loop, Battery	P09790	1	
5	Washer, 5/16" SAE Flat	F05011-17	2	
6	Nut, 5/16-18 Hex Nylon Lock	F05010-58	2	
7	Bolt, 3/8-16 X 4" Hex Head Grade 2	F05007-4	2	
8	Washer, 3/8" SAE Flat	F05011-3	2	
9	Washer, 3/8" External Star	F05011-36	2	
10	Nut, 3/8" Hex Nylon Lock	F05010-10	2	
11	Washer, 1/4" SAE Flat	F05011-11	2	
12	Nut, 1/4-20 Wing	F05010-13	2	
13	Box Weldment, Battery	W11951	1	
14	Pad, Fuse Box Insulator	S11944	1	
	Fuse Block Replacement Kit	A12381	1	
	Fuse Block Assembly	A12380-W	1	◆
15	Buss Bar Weldment	W12388	1	
16	Fuse Block	S12383	1	
17	Nut, #10-24 Cadmium Plated Weld	S12391	1	
18	Nut, 1/4-20 Cadmium Plated Weld	S12392	1	
19	Stud Weldment, 1/4-20 Fuse	W12389	1	
20	Stud Weldment, #10-24 Fuse	W12390	1	
21	Nut, #10-24 Hex Lock	F05010-14 <sup>4</sup>	1	
22	Bolt, 1/4-20 X 3/4" Hex Head Full Thread	F05005-1	2	
23	Fuse Link, 12 Volt 100 Amp	P11549	1	
24	Washer, #10 SAE Flat	F05011-18	2	
25	Nut, #10-24 Hex Self-Locking	F05010-14	2	
26	Fuse Link, 12 Volt 225 Amp	P11550	1	
27	Washer, 1/4" SAE Flat	F05011-11	2	
28	Nut, 1/4-20 Hex Self-Locking	F05010-9	2	
29	Bushing, Fuse Post Insulator	S12387 <sup>5</sup>	1	
30	Washer, 5/16" Split Lock	F05011-13	1	

## 4

**Control & Battery Boxes***Battery Box Assembly, LT30HD/LT40HD*

31	Bolt, 5/16-18 X 1/2" Hex Head	F05006-46	1	
32	Cover, Fuse Box	S11950	1	
33	Screw, #10-24 X 1/2" Self-Tapping	F05015-7	4	
34	Grommet, 5/8" Rubber Wire (U.S. Models)	P11764	6	
	Grommet, Sealed Rubber Nipple (G.S. Models)	P11945	6	
	Contact Assembly, Hydraulic Power Supply (Positive)	A11971	1	
35	Contact, Hydraulic Power Supply w/Set Screw	S11970 <sup>6</sup>	1	
36	Screw, 5/16-24 X 3/8 Socket Head Oval Point Set	F05006-40	1	
37	Insulator, Positive Contact	S10072	1	
38	Bracket, Positive Contact Mounting	S11972	1	
39	Spring, Positive Contact	P10077	2	
40	Bolt, 5/16" X 3/4" Shoulder (1/4-20 Thread)	F05006-44	2	
41	Washer, 1/4" SAE Flat	F05011-11	2	
42	Cable, #2 Weld	R01948	1.83 Ft	◆
43	Bolt, 1/4-20 X 1" Hex Head Grade 2	F05005-38	2	
44	Nut, 1/4-20 Hex Self-Locking	F05010-9	2	
45	Terminal, 5/16" Ring #2 Gauge	F05092-16	2	
46	Solenoid Kit, Hydraulic Shutoff (G.S. Models Only)	016372 <sup>7</sup>	1	
47	Bracket, Solenoid Connector (G.S. Models Only)	S11942	1	
48	<b>LID, BATTERY BOX</b>	S10447	1	
49	<b>BOLT, 3/8-16 X 1" HEX HEAD GRADE 5</b>	F05007-87	2	
50	<b>WASHER, 3/8" SAE FLAT</b>	F05011-3	2	
51	<b>NUT, 3/8-16 HEX NYLON LOCK</b>	F05010-10	2	

<sup>1</sup> P09853-1 Dry battery replaces P09853. Wood-Mizer is not able to ship batteries containing electrolyte.

<sup>2</sup> P12315 Wet battery not available. Wood-Mizer is not able to ship batteries containing electrolyte.

<sup>3</sup> Battery removed from assembly 2/95. Wood-Mizer is not able to ship batteries containing electrolyte.

<sup>4</sup> Replaces duplicate part number F05010-42 (11/95).

<sup>5</sup> S12387 Replaces S12387-W originally supplied before 11/95.

<sup>6</sup> Set screw included with block after 1/99.

<sup>7</sup> Solenoid Kit 016372 replaces Solenoid P10449. Kit includes solenoid and replacement instructions. Optional retrofit kit 024267 also available. Kit includes solenoid, solenoid wire assembly w/resistor upgrade (024260), and installation instructions. Designed to bring solenoid coil current within specifications and to prevent possible solenoid over-heating. Available 10/97.

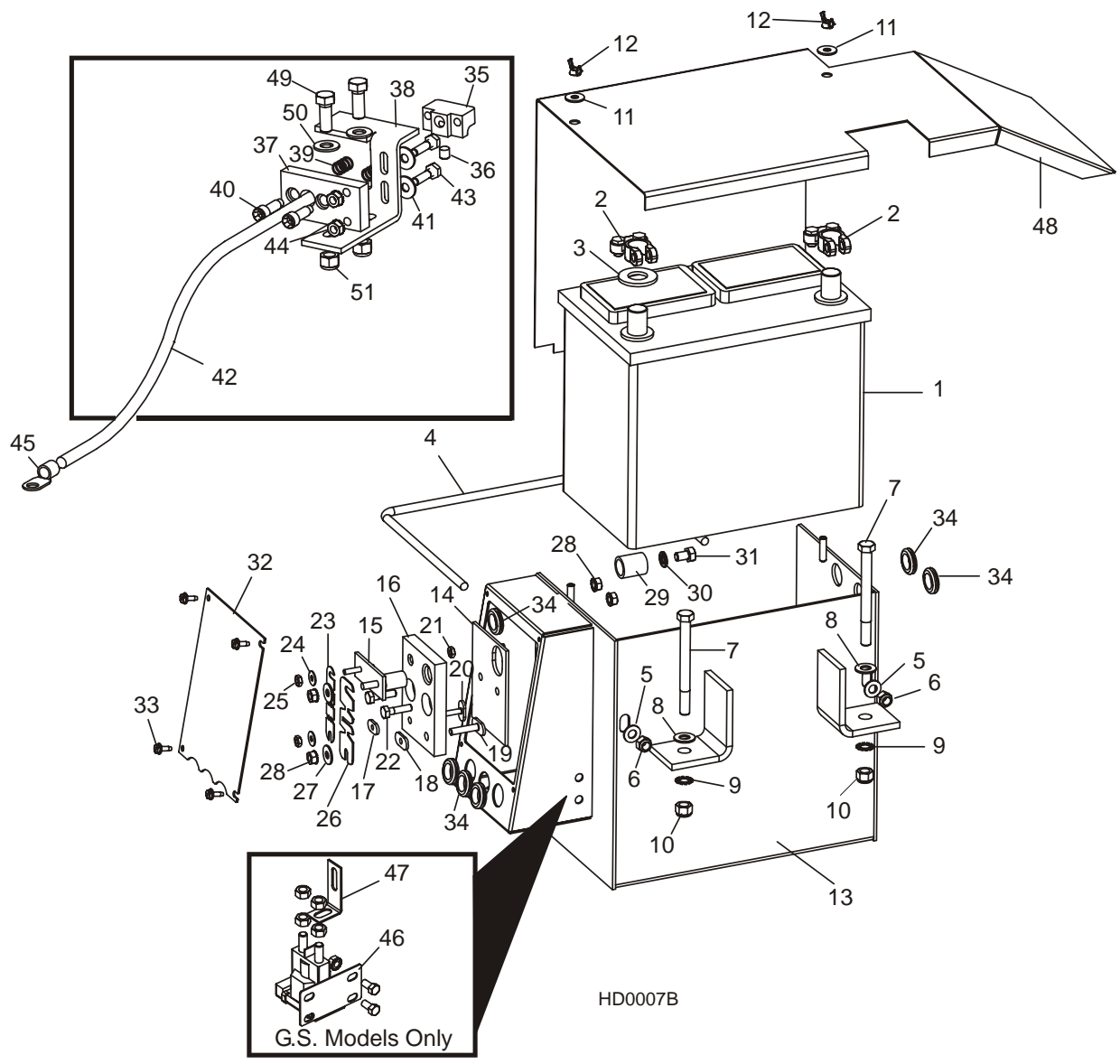


FIG. 4-3



<b>4.4 Battery Box Assembly, LT30HD/LT40HD</b>				
<i>LT30HD</i>		<i>Rev. D3 - E2</i>		
<i>LT40HD</i>		<i>Rev. D3 - E2</i>		
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART NUMBER	QTY.	◆
1	BATTERY, 8T24 DEKA 12 VOLT DEEP CYCLE DRY (G24/G24S/G25/E15/E15S)	P09853-1 <sup>1</sup>	1	
	BATTERY, 875CC DEKA TYPE 24F (D20/D20S)	P12315 <sup>2</sup>	1	◆
	BOX ASSEMBLY, 8T24 BATTERY (U.S. G24/G25/E15 MODELS)	A11938 <sup>3</sup>	1	
	BOX ASSEMBLY, 8T24 BATTERY (G.S. G24S/E15S MODELS)	A11978 <sup>3</sup>	1	
	BOX ASSEMBLY, 875 BATTERY (U.S. D20 MODELS)	A12128 <sup>3</sup>	1	
	BOX ASSEMBLY, 875 BATTERY (G.S. D20S MODELS)	A12129 <sup>3</sup>	1	
2	Terminal, Battery	P05085	2	
3	Washer, Battery Terminal	P12161 <sup>4</sup>	1	
4	Retainer Loop, Battery	P09790	1	
5	Washer, 5/16" SAE Flat	F05011-17	2	
6	Nut, 5/16-18 Hex Nylon Lock	F05010-58	2	
7	Bolt, 3/8-16 X 4" Hex Head Grade 2	F05007-4	2	
8	Washer, 3/8" SAE Flat	F05011-3	2	
9	Washer, 3/8" External Star	F05011-36	2	
10	Nut, 3/8" Hex Nylon Lock	F05010-10	2	
11	Washer, 1/4" SAE Flat	F05011-11	2	
12	Nut, 1/4-20 Wing	F05010-13	2	
13	Box Weldment, Battery	W11951	1	
14	Pad, Fuse Box Insulator	S11944	1	
15	Stud, 1/4-20 x 2 1/2" Terminal	S11937 <sup>5</sup>	1	◆
16	Fuse Block	S11943-W <sup>5</sup>	1	◆
17	Bolt, 1/4-20 X 3/4" Hex Head Full Thread	F05005-1	2	
18	Bolt, 1/4-20 x 1 1/4" Hex Head Full Thread	F05005-3	1	
19	Bolt, #10-24 x 1 1/4 Hex Head	F05004-19	2	
20	Washer, #10 SAE Flat	F05011-18	4	
21	Nut, #10-24 Hex Self-Locking	F05010-14	5	
22	Fuse Link, 12 Volt 100 Amp	P11549	1	
23	Cover, Fuse Box	S11950	1	
24	Screw, #10-24 X 1/2" Self-Tapping	F05015-7	4	
25	Fuse Link, 12 Volt 225 Amp	P11550	1	
26	Grommet, 5/8" Rubber Wire (U.S. Models)	P11764	6	
	Grommet, Sealed Rubber Nipple (G.S. Models)	P11945	6	
27	Nut, 1/4-20 Hex Self-Locking	F05010-9	9	
28	Bushing, Fuse Terminal Insulator	S11940 <sup>5</sup>	1	◆
29	Washer, 1/4" SAE Flat	F05011-11	7	
30	Buss Bar, '92 Fuse Block	S11941 <sup>5</sup>	1	◆
31	Weld Nut, #10-24	F05010-78	1	

# 4

## Control & Battery Boxes

### Battery Box Assembly, LT30HD/LT40HD

32	Weld Nut, 1/4-20	F05010-40	1	
	Contact Assembly, Hydraulic Power Supply (Positive)	A11971	1	
33	Contact, Hydraulic Power Supply w/Set Screw	S11970 <sup>6</sup>	1	
34	Screw, 5/16-24 X 3/8 Socket Head Oval Point Set	F05006-40	1	
35	Insulator, Positive Contact	S10072	1	
36	Bracket, Positive Contact Mounting	S11972	1	
37	Spring, Positive Contact	P10077	2	
38	Bolt, 5/16" X 3/4" Shoulder (1/4-20 Thread)	F05006-44	2	
39	Washer, 1/4" SAE Flat	F05011-11	2	
40	Cable, #2 Weld	R01948	1.83 Ft	◆
41	Bolt, 1/4-20 X 1" Hex Head Grade 2	F05005-38	2	
42	Nut, 1/4-20 Hex Self-Locking	F05010-9	2	
43	Terminal, 5/16" Ring #2 Gauge	F05092-16	2	
44	Solenoid Kit, Hydraulic Shutoff (G.S. Models Only)	016372 <sup>7</sup>	1	
45	Bracket, Solenoid Connector (G.S. Models Only)	S11942	1	
46	<b>LID, BATTERY BOX</b>	S10447	1	
47	<b>BOLT, 3/8-16 X 1" HEX HEAD GRADE 5</b>	F05007-87	2	
48	<b>WASHER, 3/8" SAE FLAT</b>	F05011-3	2	
49	<b>NUT, 3/8-16 HEX NYLON LOCK</b>	F05010-10	2	

<sup>1</sup> P09853-1 Dry battery replaces P09853. Wood-Mizer is not able to ship batteries containing electrolyte.

<sup>2</sup> P12315 Wet battery not available. Wood-Mizer is not able to ship batteries containing electrolyte.

<sup>3</sup> Battery removed from assembly 2/95. Wood-Mizer is not able to ship batteries containing electrolyte.

<sup>4</sup> Protective terminal washer added to positive battery terminal after 5/92 to prevent corrosion.

<sup>5</sup> Replace all fuse mounting components with fuse block upgrade A12381 to insure good electrical contact. See Section 4.3.

<sup>6</sup> Set screw included with block after 1/99.

<sup>7</sup> Solenoid Kit 016372 replaces Solenoid P10449. Kit includes solenoid and replacement instructions.



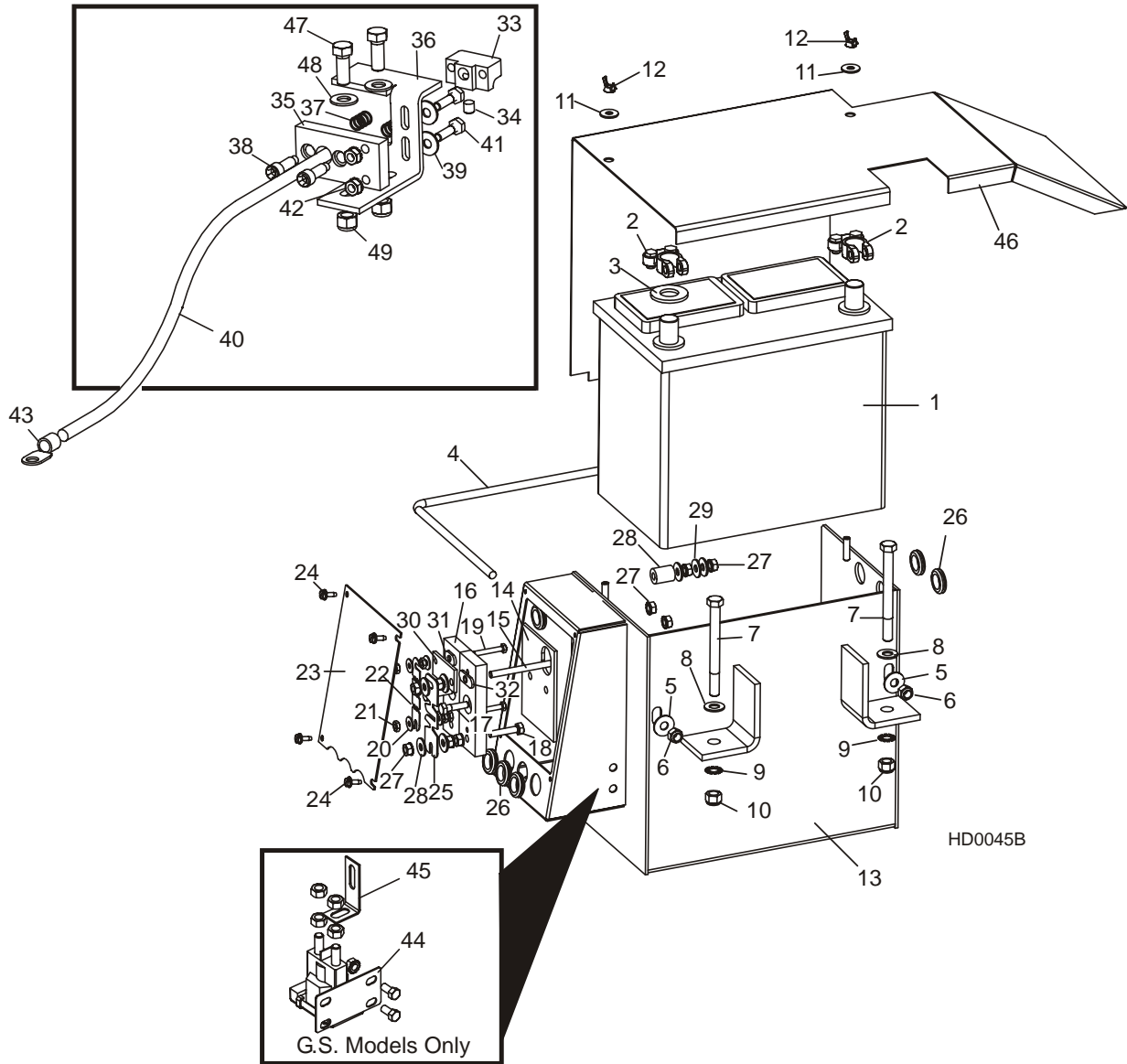


FIG. 4-4



## 4.5 Battery Box Assembly, LT30HD/LT40HD

*LT30HD*  
*LT40HD*

*Rev. C7 - D2*  
*Rev. C7 - D2*

REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART NUMBER	QTY.	
	<b>BOX ASSEMBLY, 8T24 BATTERY</b>	K10439 <sup>1</sup>	1	
1	Battery, 8T24 Deka 12 Volt Deep Cycle Dry	P09853-1 <sup>2</sup>	1	
2	Terminal, Battery	P05085	1	
3	Washer, Battery Terminal	P12161 <sup>3</sup>	1	
4	Retainer Loop, Battery	P09790	1	
5	Washer, 5/16" SAE Flat	F05011-17	2	
6	Nut, 5/16-18 Hex Nylon Lock	F05010-58	2	
7	Bolt, 3/8-16 X 4" Hex Head Grade 2	F05007-4	2	
8	Washer, 3/8" SAE Flat	F05011-3	2	
9	Washer, 3/8" External Star	F05011-36	2	
10	Nut, 3/8" Hex Nylon Lock	F05010-10	2	
11	Washer, 1/4" SAE Flat	F05011-11	2	
12	Nut, 1/4-20 Wing	F05010-13	2	
13	Box Weldment, Battery	W10442 <sup>1</sup>	1	
14	Cover, '91 Flat Fuse Box	S11554	1	
15	Screw, #10-24 X 1/2" Self-Tapping	F05015-7	4	
16	Grommet, 5/8" Rubber Wire	P11764	4	
17	Grommet, 1" Rubber Wire	P11765	2	
	Fuse Kit, 1992 Flat Box Service	015982 <sup>4</sup>	1	
18	Pad, Fuse Box Insulator	S11695	2	
19	Fuse Block, '91 Flat Box	S11747 <sup>5</sup>	2	
20	Bolt, 1/4-20 X 3/4" Hex Head Full Thread	F05005-1	4	
21	Bolt, 1/4-20 x 1 1/4" Hex Head Full Thread	F05005-3	2	
22	Bolt, #10-24 x 1 1/4 Hex Head	F05004-19	2	
23	Washer, #10 SAE Flat	F05011-18	8	
24	Nut, #10-24 Hex Self-Locking	F05010-14	4	
25	Fuse Link, 12 Volt 100 Amp	P11549	1	
26	Fuse Link, 12 Volt 225 Amp	P11550	1	
27	Nut, 1/4-20 Hex Self-Locking	F05010-9	8	
28	Washer, 1/4" SAE Flat	F05011-11	8	
29	Terminal, Battery	P05085	1	
	Cable, 1AWG SO Welding	R01971	.667 ft.	
	Terminal, 5/16" Ring #2 Gauge	F05092-16	1	
	Contact Assembly, Hydraulic Power Supply (Positive)	A11971	1	
30	Contact, Hydraulic Power Supply w/Set Screw	S11970 <sup>6</sup>	1	

# 4

## Control & Battery Boxes

### Battery Box Assembly, LT30HD/LT40HD

31	Screw, 5/16-24 X 3/8 Socket Head Oval Point Set	F05006-40	1	
32	Insulator, Positive Contact	S10072	1	
33	Bracket, Positive Contact Mounting	S11972	1	
34	Spring, Positive Contact	P10077	2	
35	Bolt, 5/16" X 3/4" Shoulder (1/4-20 Thread)	F05006-44	2	
36	Washer, 1/4" SAE Flat	F05011-11	2	
37	Cable, #2 Weld	R01948	1.83 Ft	◆
38	Bolt, 1/4-20 X 1" Hex Head Grade 2	F05005-38	2	
39	Nut, 1/4-20 Hex Self-Locking	F05010-9	2	
40	Terminal, 5/16" Ring #2 Gauge	F05092-16	2	
41	<b>LID, BATTERY BOX</b>	S10447	1	
42	<b>BOLT, 3/8-16 X 1" HEX HEAD GRADE 5</b>	F05007-87	2	
43	<b>WASHER, 3/8" SAE FLAT</b>	F05011-3	2	
44	<b>NUT, 3/8-16 HEX NYLON LOCK</b>	F05010-10	2	

<sup>1</sup> Obsolete part. Replace with new battery/fuse box assembly A11938. Also requires new lower control box harness (See Section 4.1 or Section 4.2)

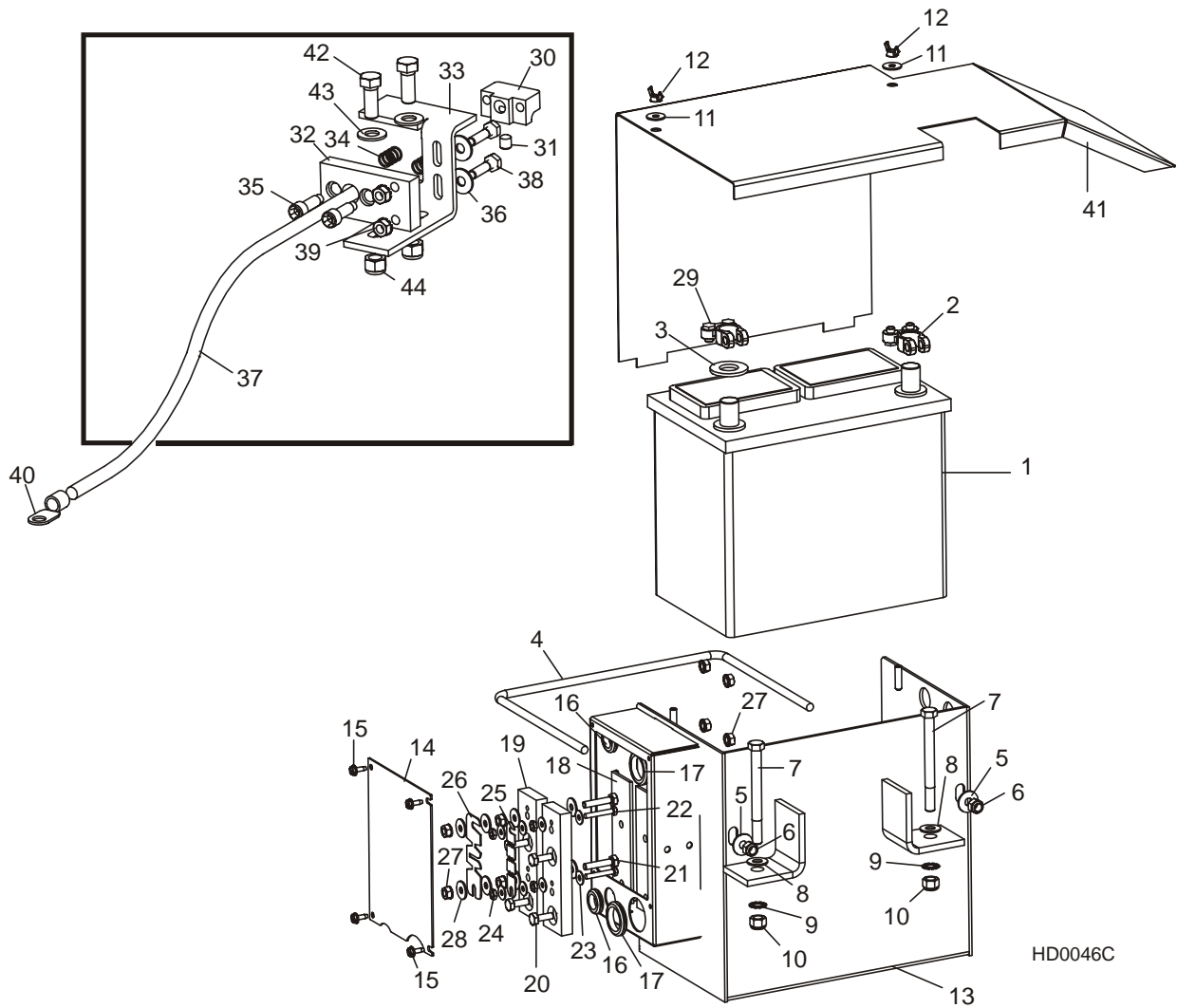
<sup>2</sup> P09853-1 Dry battery replaces P09853. Wood-Mizer is not able to ship batteries containing electrolyte.

<sup>3</sup> Protective terminal washer added to positive battery terminal after 5/92 to prevent corrosion.

<sup>4</sup> New service kit available 1/98. 225A Fuse Link only used for hydraulic sawmills.

<sup>5</sup> Replaces S11747-W and S11748-W. Block redesigned to accept 100 or 225 Amp fuses.

<sup>6</sup> Set screw included with block after 1/99.



HD0046C

**FIG. 4-5**

## SECTION 5 UP/DOWN SYSTEM & SCALES

<b>5.1 Saw Head V-Brace Mount</b>				
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
1	V-BRACE, SAW HEAD MOUNT	W04099	1	
2	BOLT, 5/16-18 X 3/4" HEX HEAD GRADE 5	F05006-5	11	
3	BOLT, 5/16-18 X 1 1/4" HEX HEAD FULL THREAD	F05006-18	5	
4	PAD, PLASTIC SLIDE	M04096	8	
5	NUT, 5/16-18 NYLON LOCK	F05010-58	16	
6	NUT, 5/16-18 HEX	F05010-17	5	
7	PLATE, V-BRACE WASHER	S07935	4	
8	BOLT, 1/2-13 X 3" HEX HEAD	F05008-1	4	
9	NUT, 1/2-13 NYLON LOCK	F05010-8	4	
10	BOLT, 3/8-16 X 3" FULL THREAD	F05007-1	2	
11	NUT, 3/8-16 HEX	F05010-1	4	
12	WASHER, 3/8" SAE FLAT	F05011-3	2	
13	WASHER, 3/8" SPLIT LOCK	F05011-4	2	
	SIGHT GAUGE KIT	A10087	1	
	Sight Gauge Assembly	A09997	1	◆
14	Bracket, Sight Gauge Mount	S09998	1	◆
15	Spring, Sight Gauge	S10031	1	
16	Bolt, 3/8-16 X 2" Hex Head Full Thread	F05007-16	1	
17	Nut, 3/8-16 Hex Lock	F05010-25	1	
18	Washer, 5/16" SAE Flat	F05011-17	2	
19	Nut, 5/16-18 Hex Lock	F05010-6	2	
	Instruction Sheet, Sight Gauge	A10087-257	1	

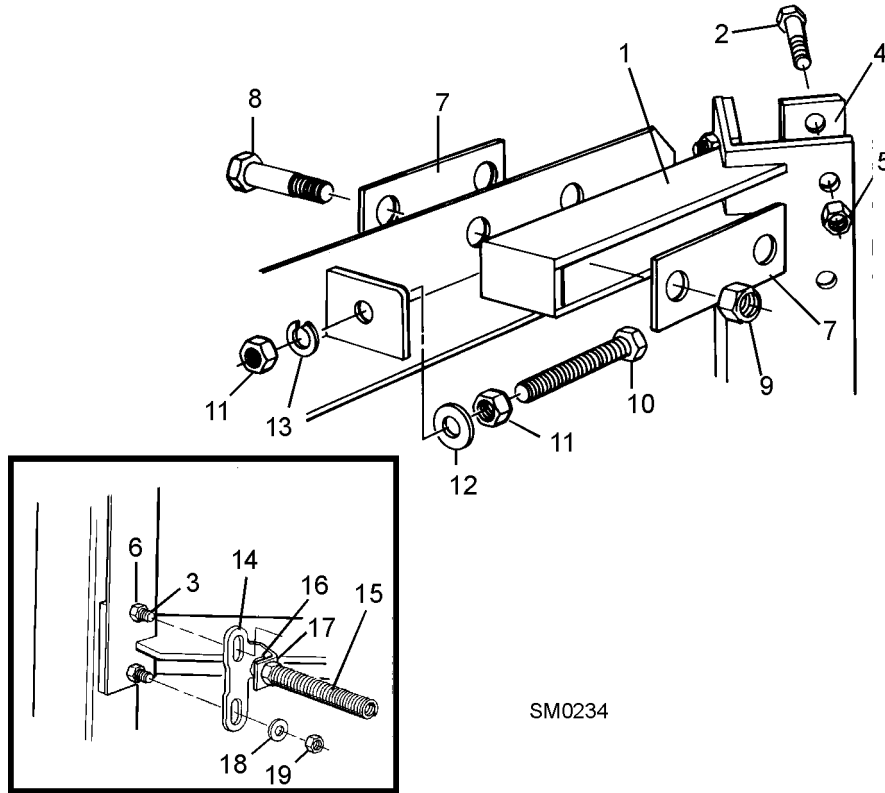


FIG. 5-1

# 5 Up/Down System & Scales

## Blade Height Scale

<b>5.2 Blade Height Scale</b>				
<i>LT30HD</i>		<i>Rev. D3 - F7</i>		
<i>LT40HD</i>		<i>Rev. D3 - F7</i>		
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>SCALE RETROFIT, FIXED WITH POINTER</b>	A12030	1	
	Scale Kit, Fixed With Pointer	K11998	1	◆
	Scale Assembly, Fixed	A12022	1	◆
1	Bracket, Scale Mounting	W11996 <sup>1</sup>	1	
2	Plate, Movable Scale Stop	036666 <sup>1</sup>	1	
3	Scale, 35" Quarter	S11989	1	
4	Decal, 35" Standard Quarter Scale	S11774	1	
	Decal, 35" Grade Hardwood Quarter Scale	P12819 <sup>2</sup>	1	
5	Scale, 35" Inch	S11988	1	
6	Decal, 35" Inch	S11773	1	
7	Strap, Scale Hold-Down	S04805	1	
8	Pin, 1/8" X 5/8" Roll	F05012-14	1	
9	Screw, 1/4-20 X 5/8" Wing	F05005-64	1	
10	Bolt, 1/4-20 X 3/4" Hex Head Full Thread	F05005-1	4	
11	Washer, 1/4" SAE Flat	F05011-11	1	
12	Washer, 1/4" X .020 Thick Nylon Flat	F05011-22	2	
13	Nut, 1/4-20 Hex Self-Locking	F05010-9	2	
14	Screw, 1/4-20 X 3/4" Flat Socket Head	F05005-70	1	
	Pointer Assembly, Fixed Scale	A12023	1	
15	Bracket, Fixed Scale Pointer Mount	S12245 <sup>3</sup>	1	◆
16	Pointer, Fixed Scale	017778 <sup>4</sup>	1	
17	Screw, #10-24 X 3/8" Phillips Head	F05004-3	2	
18	Nut, #10-24 Hex Self-Locking	F05010-14	2	
19	Bolt, 1/4-20 x 3/4" with Conical Washer	F05005-134	2	
20	Washer, 5/16" SAE Flat	F05011-17	2	
21	Nut, 5/16-18 Hex Lock	F05010-6	2	
	Bolt, 1/4-20 X 1/2" Hex Head Grade 2	F05005-15	1	
	Instruction Sheet, Fixed Scale Retrofit	A12030-370	1	
	<b>DECAL KIT, METRIC SCALE</b>	K12064	1	
	Decal, Metric	S11711	1	
	Decal, Metric 16-40mm	P12040-1	1	
	Decal, Metric 45-63mm	P12040-2	1	
22	<b>DECAL, CLUTCH HANDLE OPERATION</b>	P11779	1	

<sup>1</sup> Wing screw moved to side of scale mount and bracket 036666 added to eliminate possible interference with pointer (11/04). Use W11996 to service mount weldment (includes new bracket 036666).

<sup>2</sup> P12819 Grade Hardwood Quarter Scale Decal supplied on back of scale after 5/95.

<sup>3</sup> Replaces W11994 originally used through 8/92.

<sup>4</sup> Replaces W07267 and W07267-N originally supplied.



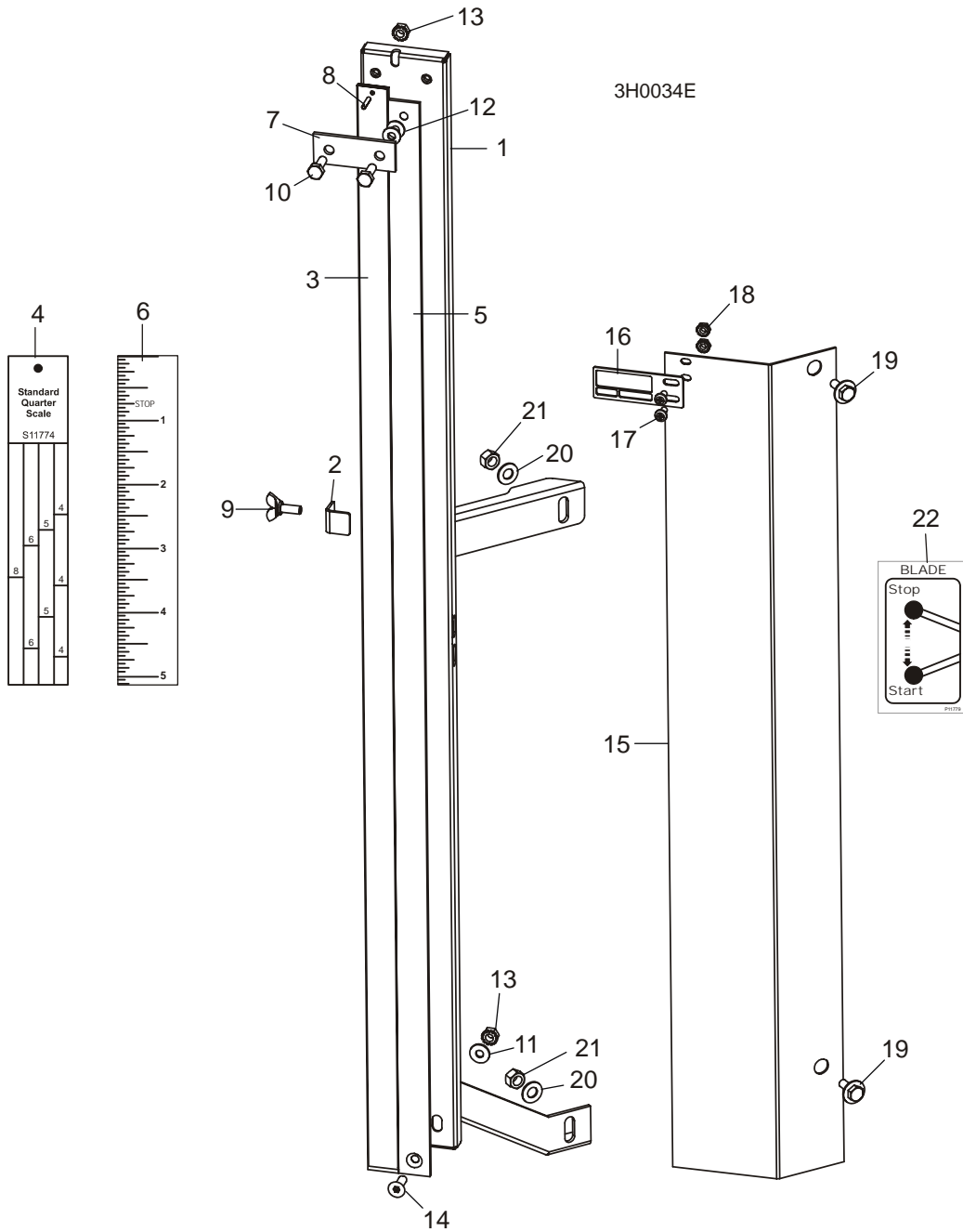


FIG. 5-2

# 5 Up/Down System & Scales

## Blade Height Scale

<b>5.3 Blade Height Scale</b>				
<i>LT30HD</i>		<i>Rev. C7 - D2</i>		
<i>LT40HD</i>		<i>Rev. C7 - D2</i>		
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>SCALE KIT, 35" BLADE HEIGHT</b>	K11594 <sup>1</sup>	1	◆
1	Scale, 35" Quarter	S11429 <sup>2</sup>	1	◆
	Decal, 35" Quarter Scale	P11039	1	
	Decal, Grade Hardwood Quarter	P12912	1	
	Decal, Quarter Scale w/o Shrinkage	P09473	1	
2	Scale, 35" Inch	S11428 <sup>3</sup>	1	◆
	Decal, 35" Inch (See Optional Metric Scale Below)	P11038	1	
3	Strap, Scale Hold-Down	S04805	2	
4	Screw, 1/4-20 X 5/8" Wing	F05005-64	2	
5	Screw, 1/4-20 x 1/2" Slotted Hex Head Self-Tapping	F05015-1	3	
6	Washer, 1/4" X .020 Thick Nylon Flat	F05011-22	4	
	Indicator Kit, Blade Height	K07709	1	
7	Bolt, 1/4-20 X 3/4" Hex Head Full Thread	F05005-1	2	
8	Washer, 1/4" SAE Flat	F05011-11	2	
9	Indicator Assembly, Blade Height	A07377	1	◆
	Indicator, Plastic Blade Height	017778 <sup>4</sup>	1	
	Bracket, Blade Height Indicator Mount	S07503	1	
	Screw, #10-24 x 3/8" Phillips Head	F05004-3	2	
	Nut, #10-24 Self-Locking	F05010-14	2	
10	Plate, Indicator Washer	S07527	1	
	<b>DECAL, METRIC 88 MM</b>	S11670	1	

<sup>1</sup> Scale Kit Not Available. Use Upgrade Kit A12030 as shown in Section 5.2.

<sup>2</sup> Scale Not Available. Use S11989 with decal P11039.

<sup>3</sup> Scale Not Available. Use S11988 with decal P11038.

<sup>4</sup> Replaces W07267 and W07267-N originally supplied.

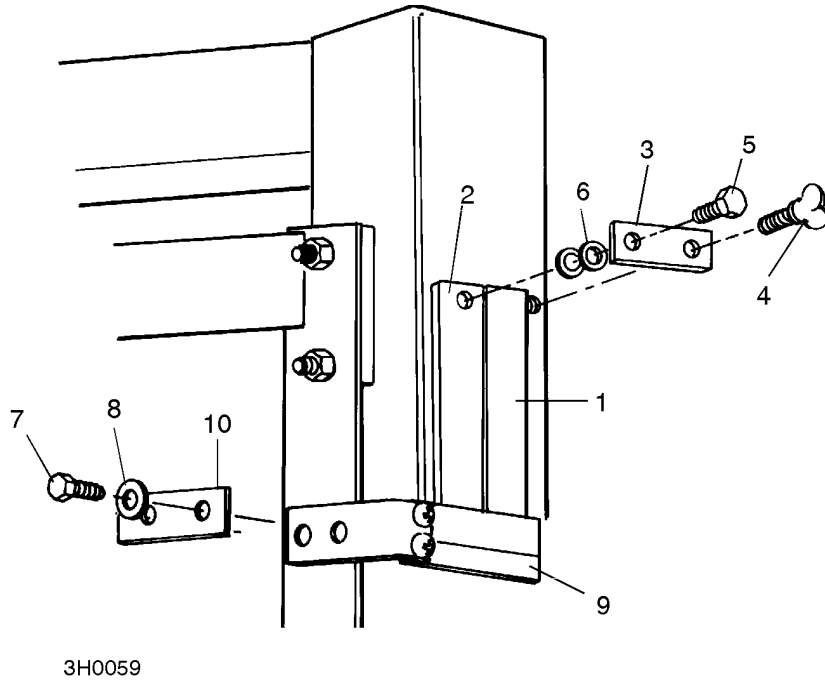


FIG. 5-3

# 5 Up/Down System & Scales

## Up/Down Assembly

<b>5.4 Up/Down Assembly</b>				
<b>LT30HD</b>		<b>Rev. D5 - F7</b>		
<b>LT40HD</b>		<b>Rev. D5 - F7</b>		
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>UP/DOWN DRIVE ASSEMBLY</b>	A11585	1	
	Motor, Up/Down Replacement	A04367	1	
1	Motor, Up/Down External Brush	016706 <sup>1</sup>	1	◆
	Brush Kit, Up/Down Leeson Motor External	034002 <sup>2</sup>	1	
	Brush Kit, Up/Down Owosso Motor External	A12198 <sup>2</sup>	1	
2	Pulley, Up/Down Motor	S04338	1	
3	Screw, 1/4-28 X 3/8" Cup Point Set	F05005-24	1	
4	Washer, #10 SAE Flat	F05011-18	2	
5	Washer, #10 Split Lock	F05011-20	2	
6	Nut, #10-32 Hex	F05010-27	2	
7	Belt, 3L290 Ribbed V	P04349	1	
8	Pulley, 8" Up/Down	P04343	1	
9	Reducer, 60:1 Gear With Extended Shaft	016622 <sup>3</sup>	1	
10	Washer, 5/16" SAE Flat	F05011-17	2	
11	Washer, 5/16" Split Lock	F05011-13	2	
12	Bolt, 5/16-18 X 3/4" Hex Head Grade 5	F05006-5	2	
13	Bracket, Up/Down Motor Mount	W11587	1	
14	Bolt, 1/4-20 X 1 1/4" Hex Head Full Thread	F05005-3	1	
15	Nut, 1/4-20 Hex Self-Locking	F05010-9	1	
16	Sprocket, Up/Down Dual Chain	S07976	1	
17	Bearing, 3/4" I.D. Flanged	P11600	1	
18	<b>BOLT, 3/8-16 X 1 1/4" HEX HEAD GRADE 2</b>	F05007-2	4	
19	<b>WASHER, 3/8" SAE FLAT</b>	F05011-3	4	
20	<b>NUT, 3/8-16 HEX NYLON LOCK</b>	F05010-10	4	
21	<b>BOLT, 5/16-18 X 3/4" HEX HEAD GRADE 5</b>	F05006-5	4	
22	<b>WASHER, 5/16" SAE FLAT</b>	F05011-17	4	
23	<b>PLATE, UP/DOWN IDLER SPROCKET</b>	S09084	1	
24	<b>SPROCKET, UP/DOWN IDLER G1-40-41-17 5/8" BORE 17 TOOTH</b>	P04333 <sup>4</sup>	4	
25	<b>BOLT, 5/8-11 X 5" HEX HEAD GRADE 2</b>	F05009-6	2	
26	<b>WASHER, 5/8" SAE FLAT</b>	F05011-5 <sup>4</sup>	8	
27	<b>NUT, 5/8-11 HEX NYLON LOCK</b>	F05010-34	2	
	<b>KIT, UP/DOWN CHAIN REPLACEMENT</b>	014486	1	
28	Chain, #40 X 75.5" Up/Down	P11602	2	
29	Link, #40 Master	P04200	4	
	Instruction Sheet, Up/Down Chain Replacement	014487-492	1	
	<b>TENSIONER ASSEMBLY, UP/DOWN CHAIN</b>	A09046 <sup>5</sup>	1	
30	Bolt, 1/2-13 x 7 1/2" Hex Head Full Thread	F05008-87 <sup>6</sup>	1	◆

31	Bracket, Up/Down Chain Tensioner	014216	1	◆
32	Washer, 1/2" Split Lock	F05011-9	2	
33	Nut, 1/2-13 Hex	F05010-35	2	
<b>OIL, 8 OZ. MOBIL SHC634 BOTTLED SYNTHETIC GEAR</b>		L04869-4 <sup>7</sup>	1	

<sup>1</sup> Motor kit A04367 revised 10/01. Leeson motor 016706 replaces Leeson motor 034001 (12/00) and Owosso motor P12093 originally supplied.

<sup>2</sup> Use 034002 Brush Kit for Leeson motors supplied after 12/00. Use A12198 Brush Kit for Owosso motor originally supplied.

<sup>3</sup> Replaces P11692 gear box originally supplied. New gear box features alloy shaft to provide better durability.

<sup>4</sup> (4) 016366 Idler Sprocket Assemblies and (6) 016433 Spacers replace (4) P04333 Idler Sprocket Assemblies and (8) F05011-5 5/8" Flat Washers originally supplied (available 01/00; not shown).

<sup>5</sup> Assembly includes new bolt F05008-87 and bracket 014216. Assembly replaces original rod S04201, bracket S09053, roll pin F05012-11, and bracket retrofit kit A12037 originally supplied until 2/96.

<sup>6</sup> Replaces 014233 threaded rod/nut weldment previously supplied.

<sup>7</sup> 8 - 11 oz. required for complete oil replacement.

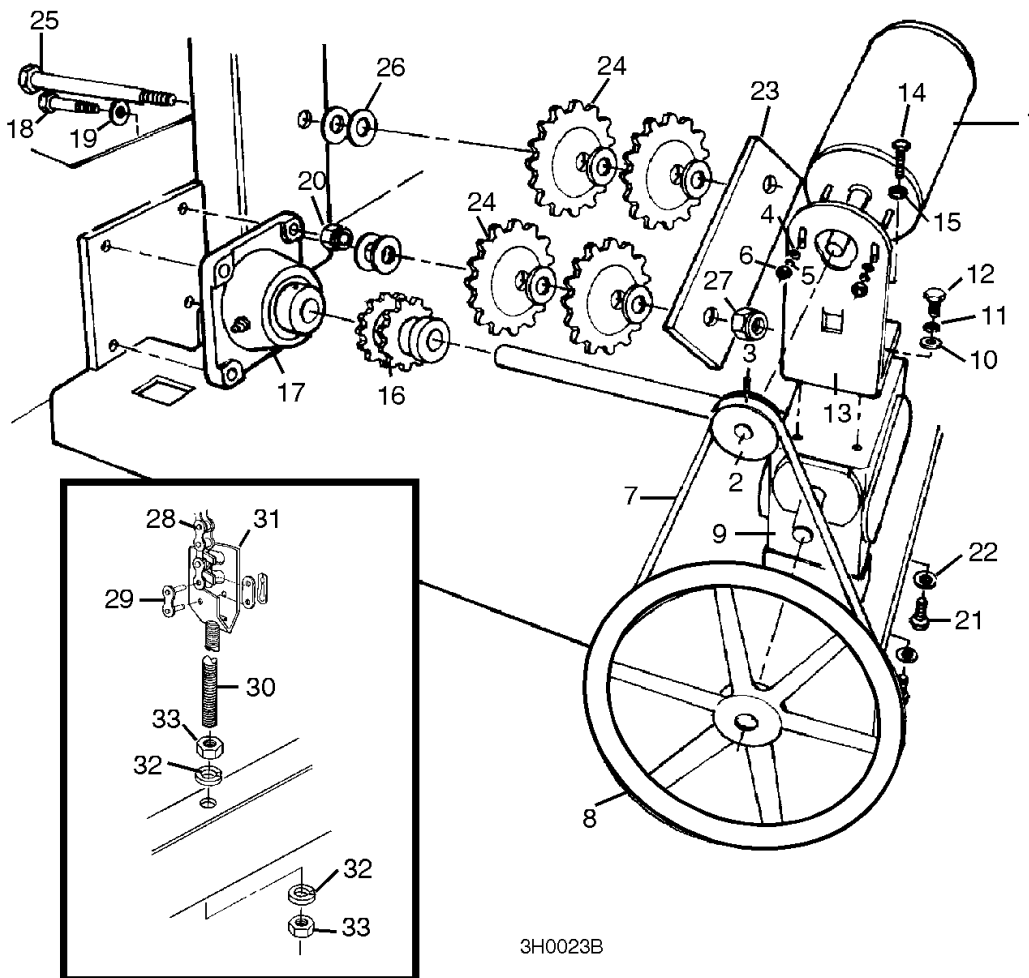


FIG. 5-4

# 5 Up/Down System & Scales

## Up/Down Assembly

<b>5.5 Up/Down Assembly</b>				
<i>LT30HD</i>		<i>Rev. C7 - D4</i>		
<i>LT40HD</i>		<i>Rev. C7 - D4</i>		
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>UP/DOWN DRIVE ASSEMBLY</b>	A11585	1	
	Motor, Up/Down Replacement	A04367 <sup>1</sup>	1	
1	Motor, Up/Down External Brush	016706 <sup>2</sup>	1	◆
	Brush Kit, Up/Down Leeson Motor External	034002 <sup>3</sup>	1	
	Brush Kit, Up/Down Owosso Motor External	A12198 <sup>2</sup>	1	
	Brush Kit, Up/Down Motor Internal	A07969 <sup>2</sup>	1	
	Brush Holder, Motor (Owosso Motor Internal Brushes Only)	034000 <sup>2</sup>	1	◆
2	Pulley, Up/Down Motor	S04338	1	
3	Screw, 1/4-28 X 3/8" Cup Point Set	F05005-24	1	
4	Washer, #10 SAE Flat	F05011-18	2	
5	Washer, #10 Split Lock	F05011-20	2	
6	Nut, #10-32 Hex	F05010-27	2	
7	Belt, 3L290 Ribbed V	P04349	1	
8	Pulley, 8" Up/Down	P04343	1	
9	Reducer, 60:1 Gear With Extended Shaft	016622 <sup>4</sup>	1	
10	Coupler, Up/Down Shaft	S11597	1	
11	Screw, 1/4-20 x 3/4" Socket Head Cap	F05005-26	2	
12	Shaft, Up/Down Extension	S11598	1	
13	Washer, 5/16" SAE Flat	F05011-17	2	
14	Washer, 5/16" Split Lock	F05011-13	2	
15	Bolt, 5/16-18 X 3/4" Hex Head Grade 5	F05006-5	2	
16	Bracket, Up/Down Motor Mount	W11587	1	
17	Bolt, 1/4-20 X 1 1/4" Hex Head Full Thread	F05005-3	1	
18	Nut, 1/4-20 Hex Self-Locking	F05010-9	1	
19	Sprocket, Up/Down Dual Chain	S07976	1	
20	Bearing, 3/4" I.D. Flanged	P11600	1	
21	<b>BOLT, 3/8-16 X 1 1/4" HEX HEAD GRADE 2</b>	F05007-2	4	
22	<b>WASHER, 3/8" SAE FLAT</b>	F05011-3	4	
23	<b>NUT, 3/8-16 HEX NYLON LOCK</b>	F05010-10	4	
24	<b>BOLT, 5/16-18 X 3/4" HEX HEAD GRADE 5</b>	F05006-5	4	
25	<b>WASHER, 5/16" SAE FLAT</b>	F05011-17	4	
26	<b>PLATE, UP/DOWN IDLER SPROCKET</b>	S09084	1	
27	<b>SPROCKET, UP/DOWN IDLER G1-40-41-17 5/8" BORE 17 TOOTH</b>	P04333 <sup>5</sup>	4	
28	<b>BOLT, 5/8-11 X 5" HEX HEAD GRADE 2</b>	F05009-6	2	
29	<b>WASHER, 5/8" SAE FLAT</b>	F05011-5 <sup>5</sup>	8	
30	<b>NUT, 5/8-11 HEX NYLON LOCK</b>	F05010-34	2	
	<b>CHAIN KIT, UP/DOWN REPLACEMENT</b>	014486	1	

31	Chain, #40 X 75.5" Up/Down	P11602	2	
32	Link, #40 Master	P04200	4	
	Instruction Sheet, Up/Down Chain Replacement	014487-492	1	
	<b>TENSIONER ASSEMBLY, UP/DOWN CHAIN</b>	A09046 <sup>6</sup>	1	
33	Bolt, 1/2-13 x 7 1/2" Hex Head Full Thread	F05008-87 <sup>7</sup>	1	◆
34	Bracket, Up/Down Chain Tensioner	014216	1	◆
35	Washer, 1/2" Split Lock	F05011-9	2	
36	Nut, 1/2-13 Hex	F05010-35	2	
	<b>OIL, 8 OZ. MOBIL SHC634 BOTTLED SYNTHETIC GEAR</b>	L04869-4 <sup>8</sup>	1	

<sup>1</sup> Motor assembly includes new external-brush motor. See Section 5.4.

<sup>2</sup> Motor kit A04367 revised 10/01. Leeson motor 016706 replaces Leeson motor 034001 (12/00) and Owosso motor P12093 originally supplied.

<sup>3</sup> Use 034002 Brush Kit for Leeson motors supplied after 12/00. Use A12198 Brush Kit for Owosso motor supplied from 6/92-12/00. Use A07969 if sawmill equipped with original internal brush up/down motor. Brush Holder 034000 applies only to old motor and is no longer available (vendor discontinued 3/09).

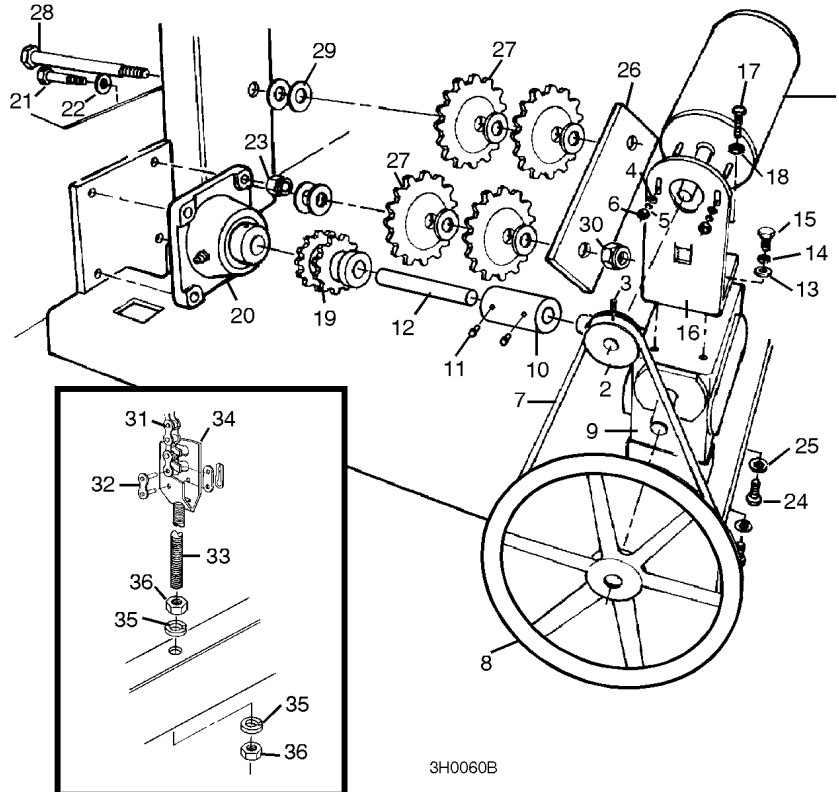
<sup>4</sup> Replaces P11692 gear box originally supplied. New gear box features alloy shaft to provide better durability. New gear reducer with extended shaft replaces P07977 reducer, coupler, and shaft extension originally supplied on Rev. C7 - C8.

<sup>5</sup> (4) 016366 Idler Sprocket Assemblies and (6) 016433 Spacers replace (4) P04333 Idler Sprocket Assemblies and (8) F05011-5 5/8" Flat Washers originally supplied (available 01/00; not shown).

<sup>6</sup> Assembly includes new bolt F05008-87 and bracket 014216. Assembly replaces original rod S04201, bracket S09053, roll pin F05012-11, and bracket retrofit kit A12037 originally supplied until 2/96.

<sup>7</sup> Replaces 014233 threaded rod/nut weldment previously supplied.

<sup>8</sup> 8 - 11 oz. required for complete oil replacement.



**FIG. 5-5**

## SECTION 6 POWER FEED & TRACK ROLLERS

<b>6.1 Upper Track Rollers And Wipers</b>				
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
1	ROLLER, TRACK CAM BEARING	012797 <sup>1</sup>	1	
	FITTING, 3/16" 45° GREASE (FOR A05044 GREASABLE ROLLERS ONLY)	P05045	1	
2	ROLLER, TRACK CAM BEARING	012797 <sup>2</sup>	1	
	FITTING, 3/16" STRAIGHT GREASE (FOR A05043 GREASABLE ROLLERS ONLY)	P04107	1	
3	NUT, 5/8-18 HEX JAM	F05010-11	4	
4	COVER, MIDDLE TRACK OILER ASSEMBLY	A09918 <sup>3</sup>	1	
	Cover, Middle Track Oiler	S09917	1	◆
	Wiper, Middle Track Felt	S09915	1	
5	SCREW, 1/4-20 X 5/8" THUMB	F05005-64	4	
6	COVER, UPPER TRACK ROLLER REAR	S12532 <sup>4</sup>	1	
7	COVER, UPPER TRACK ROLLER FRONT	S12531 <sup>4</sup>	1	
8	WIPER, PLASTIC TRACK	M04113	2	
9	GUARD, FEED CHAIN SAWDUST	W11964 <sup>5</sup>	1	

<sup>1</sup> Use 012797 to replace P12843 or A05044 greasable rollers originally supplied.

<sup>2</sup> Use 012797 to replace P12843 or A05043 greasable rollers originally supplied.

<sup>3</sup> Cover redesigned with "dual-flange" to prevent sawdust buildup (3/97). Feed chain guard W11964 no longer required if A09918 is replaced with new design.

<sup>4</sup> Single-piece covers replace hinged housing/covers (S11691, S11701, & S11702) originally supplied on some equipment.

<sup>5</sup> Not available for Rev. C7 - C9. Feed chain guard W11964 no longer required if A09918 track oiler is replaced with new design (See Note #3).



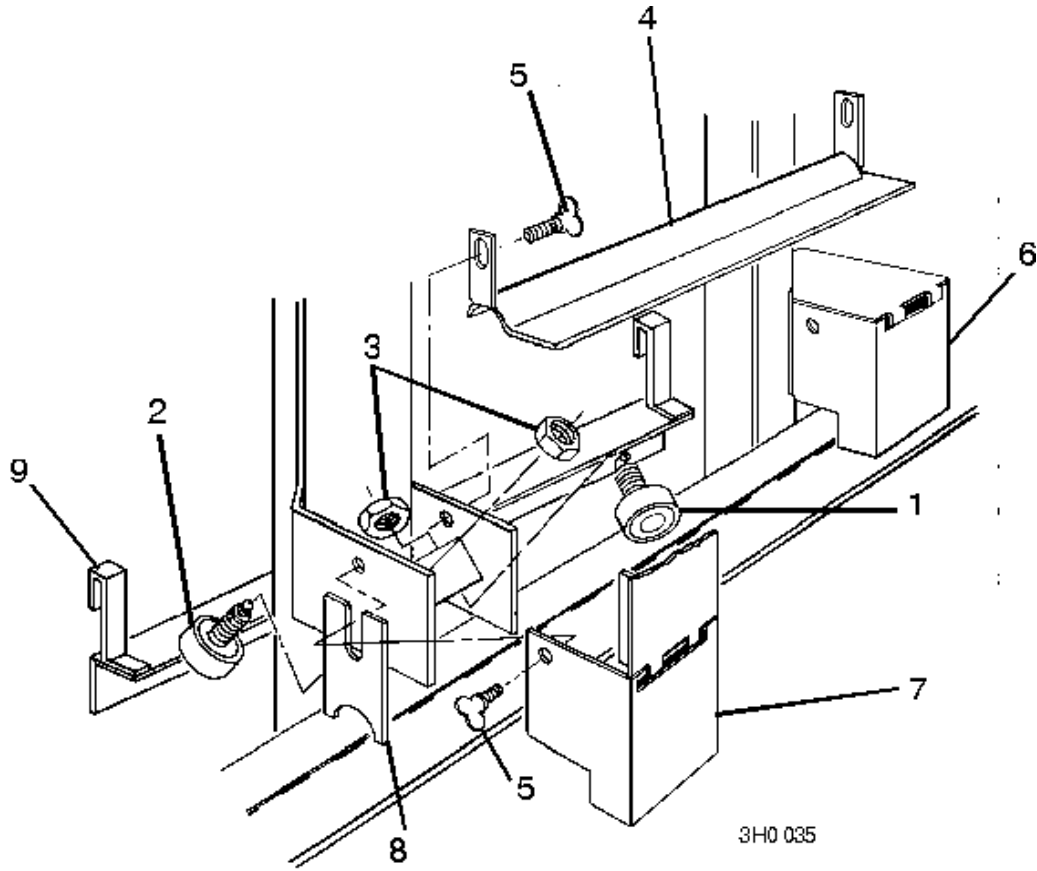


FIG. 6-1

## 6

## Power Feed &amp; Track Rollers

## Power Feed Assembly

<b>6.2 Power Feed Assembly</b>				
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>POWER FEED ASSEMBLY</b>	A11603	1	
1	Motor, Power Feed	006747 <sup>1</sup>	1	
	Brush Kit, 12V Motor (2008)	061794 <sup>1</sup>	1	
	Brush Kit, 12V Motor (2007)	006619 <sup>1</sup>	1	
	Brush Kit, 12V Motor	A09086 <sup>1</sup>	1	
	Brush Holder, Motor	034000 <sup>1</sup>	1	◆
2	Bracket, Power Feed Mount	W11605	1	
3	Bearing, 5/8" 6203-2NSL	P06030-1	2	
	Shaft Assembly, Power Feed w/Key	016067 <sup>2</sup>	1	
4	Shaft, Power Feed With Sprocket	W11610	1	◆
5	Key, 3/16" Square x 1" Long	S31027	1	◆
6	Pulley, 8" Power Feed	P04343	1	
7	Belt, 4L280 V	P04031	1	
8	Pulley, Power Feed Motor	S09579 <sup>3</sup>	1	
9	Screw, 3/8-16 X 1/2" Cup Point Socket Set	F05007-12	1	
10	Bolt, 1/4-20 X 1" Hex Head Grade 5	F05005-101 <sup>4</sup>	3	
11	Washer, 1/4" Split Lock	F05011-14	3	
12	Washer, 1/4" SAE Flat	F05011-11	3	
13	Roller, Feed Chain	012797 <sup>5</sup>	1	
	Fitting, 3/16" x 45° Grease (For A05044 Greasable roller only)	P05045	1	
14	Washer, 5/8" SAE Flat	F05011-5	6	
15	Nut, 5/8-11 Hex Jam	F05010-11	1	
16	Guard, Power Feed Belt	W11613	1	
17	Washer, 1/4" Split Lock	F05011-14	2	
18	Bolt, 1/4-20 X 2 1/4" Hex Head Grade 2	F05005-32	2	
19	Bolt, 3/8-16 X 3 1/2" Hex Head Grade 8	F05007-6 <sup>6</sup>	2	
20	Washer, 3/8" Split Lock	F05011-4 <sup>6</sup>	2	
21	Washer, 3/8" Sae Flat	F05011-3 <sup>6</sup>	2	
	<b>CHAIN KIT, LT30 FEED</b>	K10408	1	
	<b>CHAIN KIT, LT40 FEED</b>	K10410	1	
22	Chain, #40 X 208.5" LT30 Feed	P10407 <sup>7</sup>	1	
	Chain, #40 X 260.5" LT40 Feed	P10409 <sup>8</sup>	1	
23	Link, #40 Master	P04200 <sup>9</sup>	2	
24	Rod, Feed Chain Tension	S09569	1	
25	Nut, 1/2-20 Hex Jam	F05010-16	2	
26	Washer, 1/2" Split Lock	F05011-9	2	
	<b>BRACKET KIT, CARRIAGE STOP AND FEED CHAIN</b>	K11820	1	
27	Bracket, Feed Chain Rear Mount	W11822 <sup>10</sup>	1	

28	Bolt, 1/2-13 X 1 1/2" Hex Head Grade 5	F05008-33	2	
29	Nut, 1/2-13 Hex Nylon Lock	F05010-8	2	
<b>STOP KIT, RUBBER CARRIAGE</b>		K09630	2	
30	Stop, Rubber Carriage	P12165	1	◆
31	Pin, Rubber Carriage Stop	W09293	1	
32	Pin, 3/16" X 1" Cotter	F05012-21	1	

<sup>1</sup> Motor 006747 replaces Motor 014359 supplied prior to 11/08. .6HP motor directly replaces .49HP motor P04140 (Discard end cap supplied with motor). Requires two rubber boots (P03807) to protect external motor terminals. Use brush kit 061794 for new motor. Motor 014359 changed by vendor 7/07. Use brush kit 006619 for newer 014359 motor (identified by red & black motor terminal spacers). Use brush kit A09086 for original motor supplied prior to 7/07. Brush Holder 034000 applies only to original 014359 motor and is no longer available (vendor discontinued 3/09).

<sup>2</sup> Square key replaces P04101-1 #606 Woodruff key. Shaft weldment modified to accommodate key change (3/98).

<sup>3</sup> Replaces S09579-W originally supplied (part number change only).

<sup>4</sup> Replaces Grade 2 bolts F05005-38 originally supplied until 2/96.

<sup>5</sup> Use 012797 to replace greasable rollers A05044 and non-greasable rollers P12318 and P12843 originally supplied.

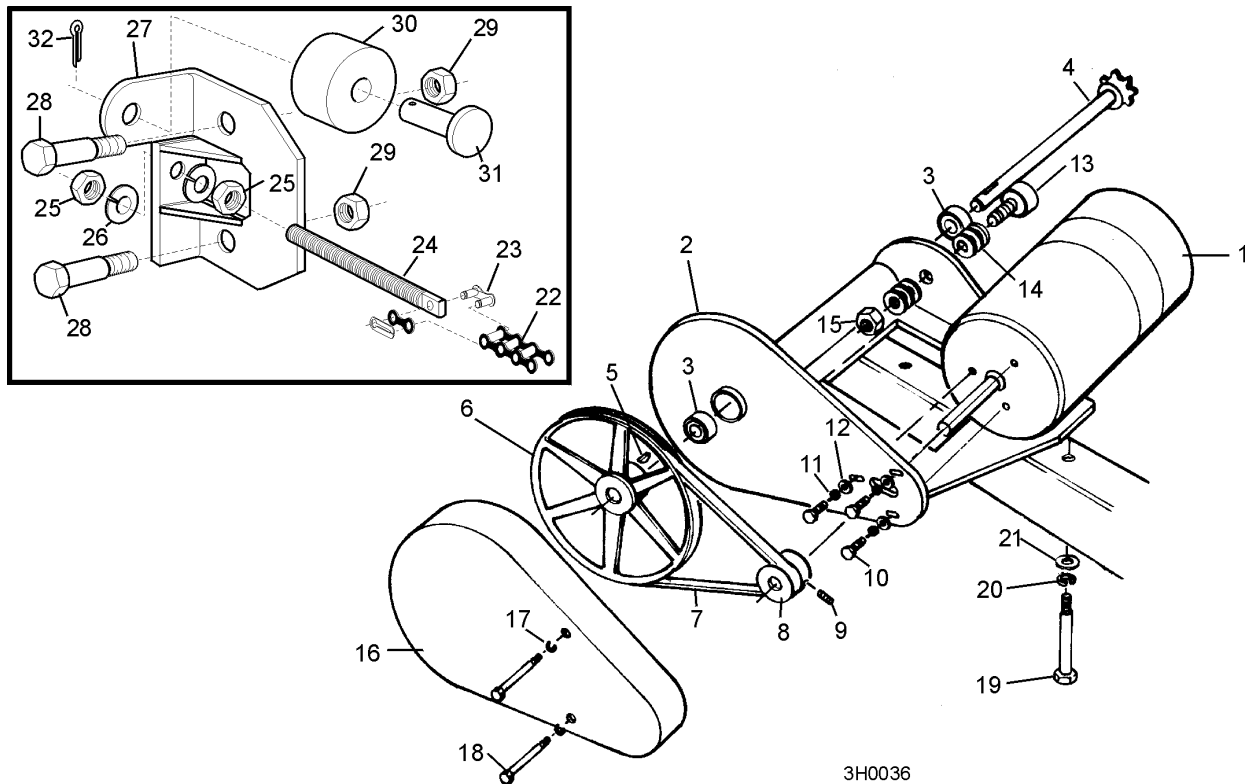
<sup>6</sup> Mounting hardware included in power feed assembly.

<sup>7</sup> Replaces #41 chain originally supplied until 7/91.

<sup>8</sup> Replaces #41 chain originally supplied until 7/91.

<sup>9</sup> Use P04176 #41 master link for feed chain originally supplied before 7/91.

<sup>10</sup> Replaced welded frame bracket after 7/91. Not retrofittable.



**FIG. 6-2**

# 6

## Power Feed & Track Rollers

### Lower Track Rollers

6.3 Lower Track Rollers				
<i>LT30HD</i>		<i>Rev. E8 - F7</i>		
<i>LT40HD</i>		<i>Rev. E8 - F7</i>		
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>ROLLER KIT, LOWER TRACK</b>	K07278	1	
	Roller Assembly, Lower Track	A04938	2	
1	Bracket, Lower Track Roller Mounting	W09001	1	◆
2	Roller, Track Cam Bearing	012797 <sup>1</sup>	1	
3	Fitting, 3/16" Straight Grease (For A05043 Greasable Rollers Only)	P04107	1	
4	Nut, 5/8-18 Hex Jam	F05010-11	1	
5	Nut, 5/8-11 Hex	F05010-5	2	
6	Washer, 5/8" Split Lock Grade 8	F05011-118 <sup>2</sup>	2	
7	Nut, 5/8-11 Hex Lock	F05010-4	2	
8	Bolt, 1/2-13 x 3 1/2" Hex Head Grade 5	F05008-61	2	
9	Nut, 1/2-13 Hex Lock	F05010-3	2	

<sup>1</sup> Use 012797 to replace P12843 or A05043 greasable rollers originally supplied.

<sup>2</sup> Grade 8 washers replace F05011-27 originally supplied to improve durability.

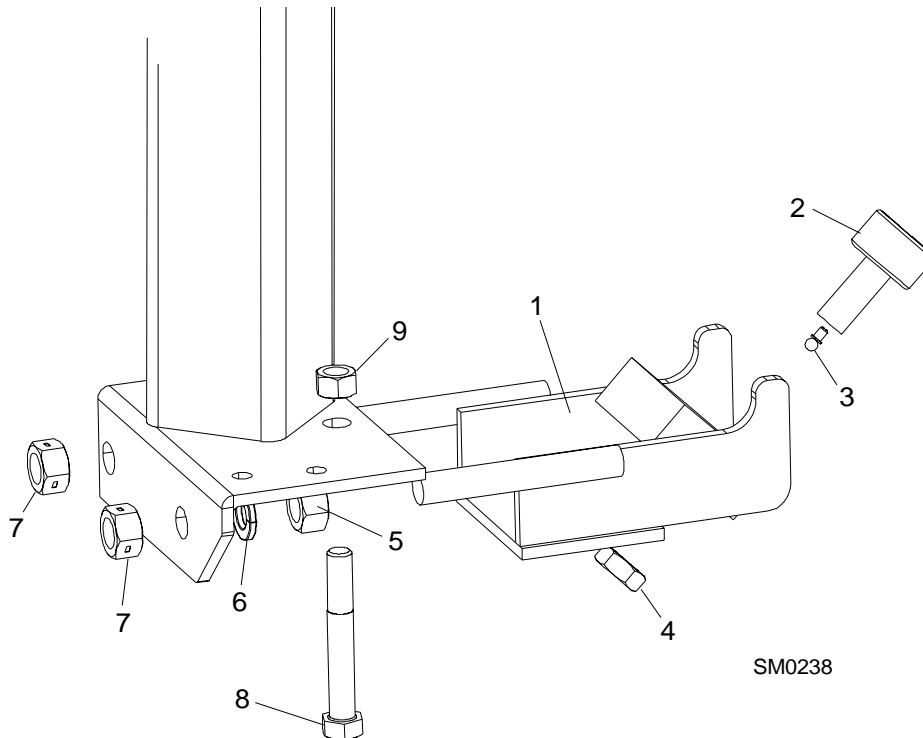


FIG. 6-3

6.4 Lower Track Rollers				
<i>LT30HD</i>		<i>Rev. C7 - E7</i>		
<i>LT40HD</i>		<i>Rev. C7 - E7</i>		
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>ROLLER KIT, LOWER TRACK</b>	K07278 <sup>1</sup>	1	
	Roller Assembly, Lower Track	A04938	2	
1	Bracket, Lower Track Roller Mounting	W09001	1	◆
2	Roller, Track Cam Bearing	P12843 <sup>2</sup>	1	
3	Fitting, 3/16" Straight Grease (For A05043 Greasable Rollers Only)	P04107	1	
4	Nut, 5/8-18 Hex Jam	F05010-11	1	
5	Nut, 5/8-11 Hex	F05010-5	2	
6	Washer, 5/8" Split Lock	F05011-118 <sup>3</sup>	2	
7	Nut, 5/8-11 Hex Lock	F05010-4	2	
8	Bolt, 1/2-13 x 3 1/2" Hex Head Grade 5	F05008-61	2	
9	Washer, 1/2" SAE Flat	F05011-2	2	
10	Nut, 1/2-13 Hex Lock	F05010-3	2	
	<b>OILER ASSEMBLY, LOWER TRACK ROLLER</b>	A12375 <sup>4</sup>	1	
11	Bracket, Lower Track Roller Oiler	S12376	1	◆
12	Pad, Lower Track Roller Oiler Felt	S12378	1	

<sup>1</sup> Sawmills equipped with original lower track roller assemblies with sealed rollers (Rev. D7 - E7) should replace the lower roller assemblies using kit K07278 (See Section 6.3). The new roller/bracket assembly will secure the saw head to the track in the event of a track roller failure. Kit K07278 replaces K12580 kit originally supplied for 4/94 retrofit campaign.

<sup>2</sup> Use P12843 to replace greasable rollers A05043 and non-greasable rollers P12318 originally supplied.

<sup>3</sup> Grade 8 washers replace F05011-27 originally supplied to improve durability.

<sup>4</sup> Applicable to P12318 rollers only. See the Maintenance Section in the Operator's Manual for maintenance information on greasable and non-greasable rollers. See also Section 6.3.

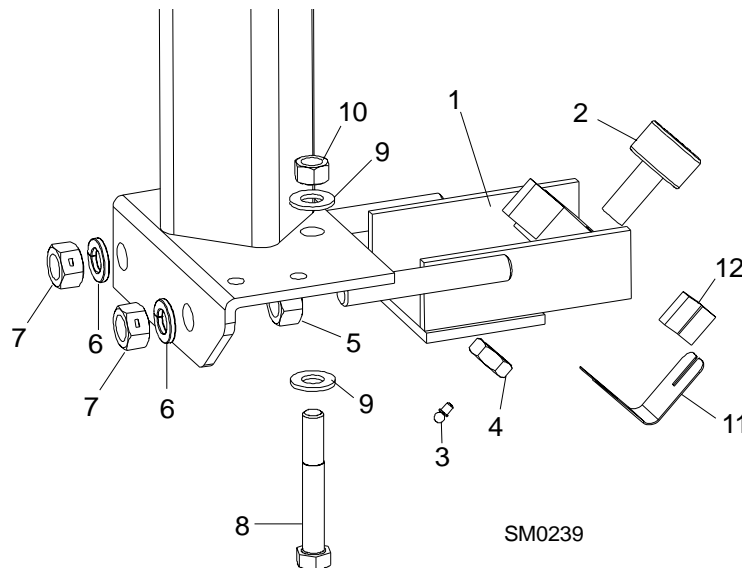


FIG. 6-4

# 7 Bed Frame Assembly

## Bed Rail Assembly, Front And Rear

### SECTION 7 BED FRAME ASSEMBLY

7.1 Bed Rail Assembly, Front And Rear				
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>BED RAIL ASSEMBLY, FRONT/REAR PAINTED</b>	A09774	2	
1	Bed Rail Tube, Long	S09102 <sup>1</sup>	1	◆
2	Pin, Ramp Mount	S04030	1	
3	Block, Log Stop	S09034	1	
	<b>Bolt Assembly, Bed Rail</b>	A09775	2	◆
4	Nut, 5/8-11 Hex	F05010-54	1	
5	Bolt, 5/8-11 X 2 1/2" Hex Head Full Thread	F05009-12	1	
6	<b>BOLT, 1/2-13 X 4" HEX HEAD</b>	F05008-26	4	
7	<b>WASHER, 1/2" SAE FLAT</b>	F05011-2	8	
8	<b>NUT, 1/2-13 NYLON LOCK</b>	F05010-8	4	
	<b>COVER ASSEMBLY, STAINLESS STEEL BED RAIL (LONG)</b>	A09956	2	
9	Cover, Stainless Steel Bed Rail	S09944	1	◆
10	Bolt, 5/16-18 X 2 1/2" Hex Head	F05006-10	3	
11	Nut, 5/16-18 Hex Lock	F05010-6	3	

<sup>1</sup> Replaces S09102-W for all mills.

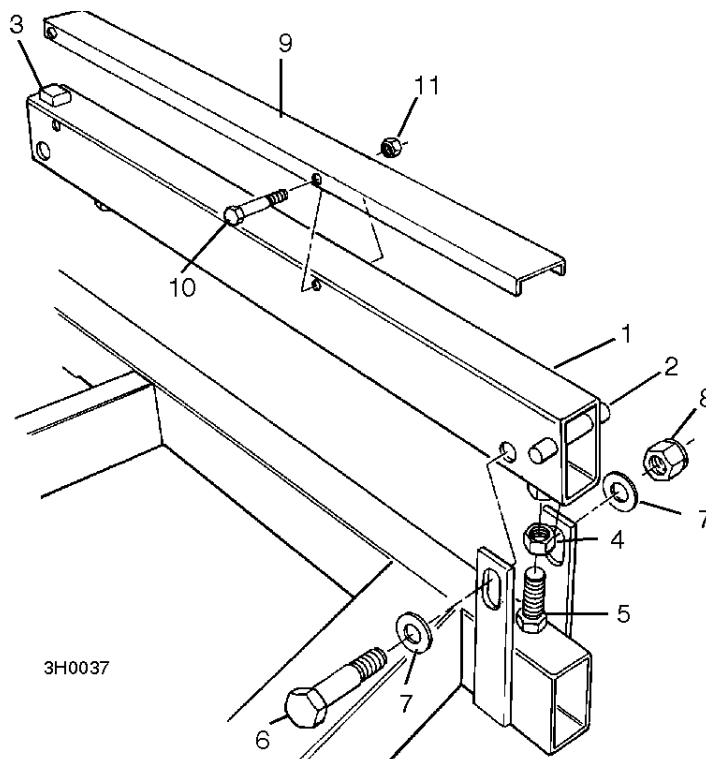


FIG. 7-1

<b>7.2 Bed Rail Assembly, Middle</b>				
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>BED RAIL ASSEMBLY, FRONT/REAR MIDDLE PAINTED</b>	A09566	2	
1	Bed Rail Tube, Short	S09103	1	◆
2	Pin, Ramp Mount	S04030	1	
	Bolt Assembly, Bed Rail	A09775	2	◆
3	Nut, 5/8-11 Hex	F05010-54	2	
4	Bolt, 5/8-11 X 2 1/2" Hex Head Full Thread	F05009-12	2	
5	<b>BOLT, 1/2-13 X 4" HEX HEAD</b>	F05008-26	4	
6	<b>WASHER, 1/2" SAE FLAT</b>	F05011-2	8	
7	<b>NUT, 1/2-13 NYLON LOCK</b>	F05010-8	4	
	<b>COVER ASSEMBLY, STAINLESS STEEL BED RAIL (LONG)</b>	A09956	2	
8	Cover, Stainless Steel Bed Rail	S09944	1	◆
9	Bolt, 5/16-18 X 2 1/2" Hex Head	F05006-10	3	
10	Nut, 5/16-18 Hex Lock	F05010-6	3	

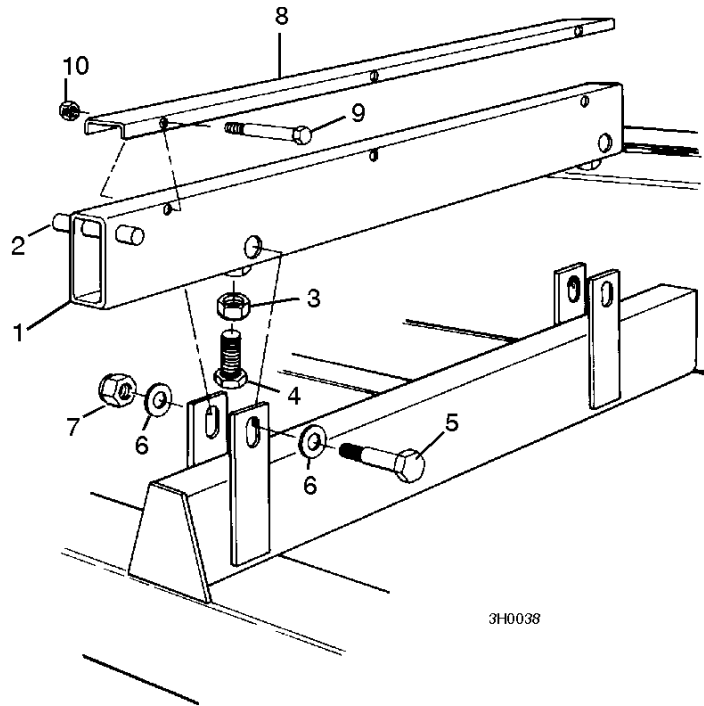


FIG. 7-2

# 7 Bed Frame Assembly

## Pivot Bed Rail Assembly

7.3 Pivot Bed Rail Assembly				
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>PIVOT BED RAIL COMPLETE KIT</b>	K06897	2	
	Pivot Bed Rail Assembly	A09435	1	◆
1	Pivot Bed Rail Weldment	W09320	1	◆
2	Bolt, 1/2-13 X 2 1/4" Hex Head Full Thread	F05008-2	1	
3	Washer, 1/2" Split Lock	F05011-9	1	
4	Nut, 1/2-13 Hex	F05010-35	1	
	Bag Assembly, Pivot Bed Rail	A06893	1	◆
5	Screw, 1/2-13 X 1" Socket Head Oval Point	F05008-9	1	
6	Screw, 1/2-13 X 1 1/2" Socket Head Flat Point	F05008-31	3	
7	Nut, 1/2-13 Hex Jam	F05010-31	3	
	Instruction Sheet, Pivot Bed Rail	K06897-270	1	
8	Bolt, 3/8-16 X 5" Hex Head	F05007-5	4	
9	Nut, 3/8-16 Nylon Lock	F05010-10	4	
	<b>COVER ASSEMBLY, STAINLESS STEEL PIVOT BED RAIL</b>	A09609	2	
10	Cover, Stainless Steel Pivot Bed Rail (Short)	S09252	1	◆
11	Bolt, 5/16-18 X 2 1/2" Hex Head	F05006-10	2	
12	Nut, 5/16-18 Hex Lock	F05010-6	2	
13	<b>NUT, 3/8-16 HEX LOCK (FOR G.S. APPLICATIONS ONLY)</b>	F05010-25	4	
14	<b>PLATE, PIVOT BED RAIL LOCK (FOR G.S. APPLICATIONS ONLY)</b>	S10424	2	

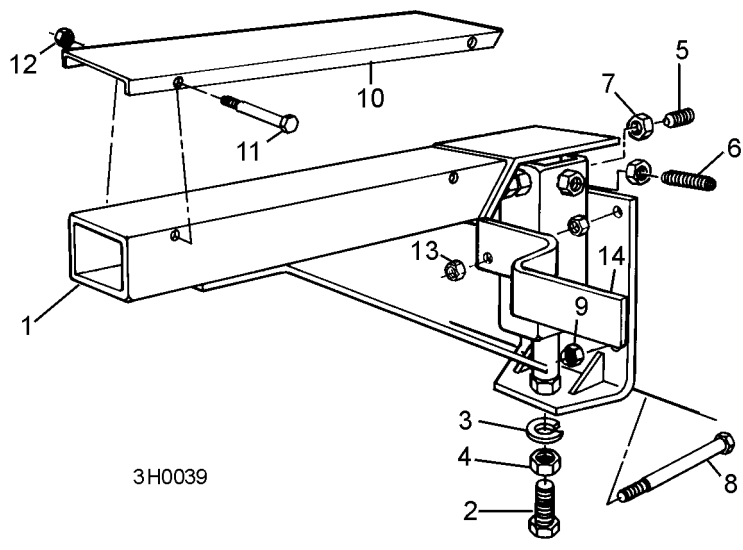
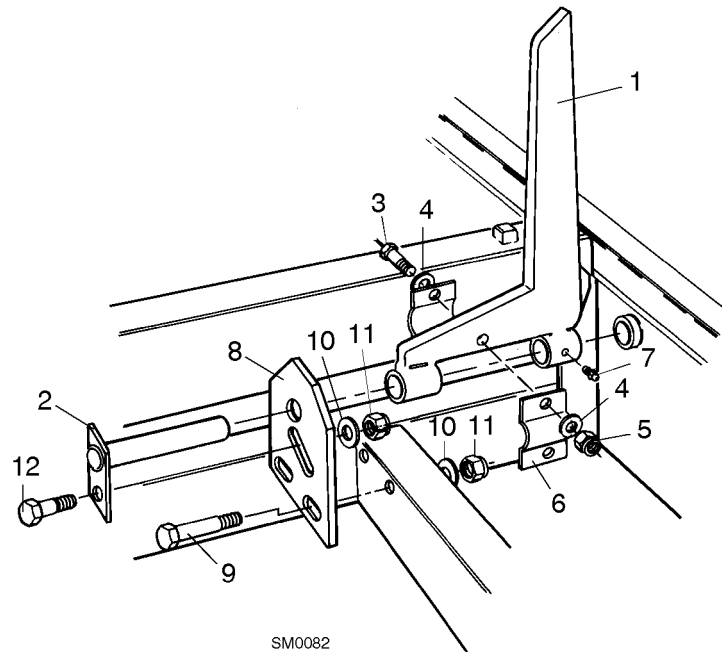


FIG. 7-3



<b>7.4 Log Side Support Assembly (Manual)</b>				
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
1	<b>SUPPORT, LOG SIDE</b>	015235 <sup>1</sup>	2	
	<b>MOUNTING KIT, LOG SIDE SUPPORT</b>	K09440	2	
2	Pin, Log Side Support Pivot	W09238	1	
3	Bolt, 1/4-20 X 1 1/2" Hex Head	F05005-5	2	
4	Washer, 1/4" SAE Flat	F05011-11	4	
5	Nut, 1/4-20 Self Locking	F05010-9	2	
6	Plate, Log Side Support Clamping	S09224	2	
7	Fitting, 3/16" Grease	P04107	1	
8	Plate, Log Side Support End	S09148	1	
9	Bolt, 1/2-13 X 3 1/2" Hex Head	F05008-15	2	
10	Washer, 1/2" SAE Flat	F05011-2	3	
11	Nut, 1/2-13 Hex Nylon Lock	F05010-8	3	
12	Bolt, 1/2-13 X 1 1/2" Hex Head	F05008-4	1	

<sup>1</sup> Replaces W12566 or unpainted W09401 originally supplied. Side support redesigned for added strength.



**FIG. 7-4**

# 7 Bed Frame Assembly

## Leg, Stationary

7.5 Leg, Stationary				
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
1	LEG, LONG STATIONARY	W09513	3	
2	BOLT, 3/8-16 X 5" HEX HEAD GRADE 2	F05007-5	8	
	BOLT, 3/8-16 X 1" HEX HEAD GRADE 2 (REQ'D FOR REAR ONLY)	F05007-7	4	
3	NUT, 3/8-16 HEX NYLON LOCK	F05010-10	8/12	
4	LEG, SHORT STATIONARY	W09515	2	
5	BOLT, 3/8-16 X 1" HEX HEAD GRADE 2	F05007-7	8	
6	NUT, 3/8-16 HEX NYLON LOCK	F05010-10	8	
7	LEG, LT40 FRONT STATIONARY	W09517	1	
8	BOLT, 5/8-11 X 5 1/2" HEX HEAD GRADE 5	F05009-11	2	
9	NUT, 5/8-11 HEX LOCK	F05010-4	2	

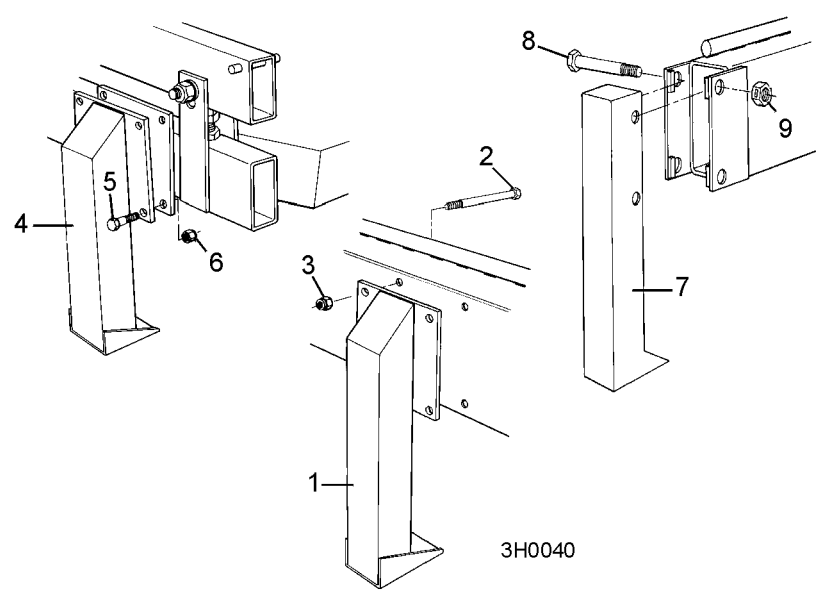
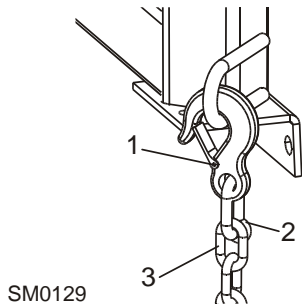


FIG. 7-5

<b>7.6 Tie Down Chain Assembly</b>				
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>CHAIN ASSEMBLY, TIE DOWN</b>	A04376	1	
1	Hook, 5/8" Safety Chain	P12075	1	◆
2	Cold Shut, 3/8" Plain	P04772-2	1	◆
3	Chain, 5/16" Unplated	R02111	.938 ft.	◆



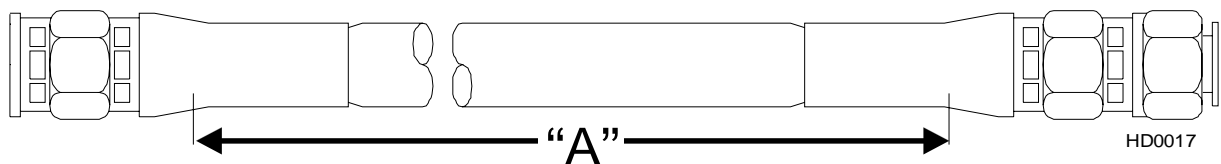
**FIG. 7-6**

## SECTION 8 HYDRAULIC SYSTEM

<b>8.1 Hydraulic Hoses</b>					
	<i>LT30HD</i>	<i>Rev. F5 - F7</i>			
	<i>LT40HD</i>	<i>Rev. F5 - F7</i>			
COLOR	LENGTH "A"	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
None	16"	HYDRAULIC PUMP TO VALVE	P12705 <sup>1</sup>	1	
Plain	14"	LOG TURNER CYLINDER BASE	P12533	1	
Orange	27"	LOG TURNER CYLINDER TOP	P12535	1	
Yellow	84"	FRONT TOE BOARD (LT30HD)	P12539	1	
	106"	FRONT TOE BOARD (LT40HD)	P12541	1	
Pink	151"	SIDE SUPPORT CYLINDER BASE (LT30HD)	P12545	1	
	173"	SIDE SUPPORT CYLINDER BASE (LT40HD)	P12549	1	
White	142"	CLAMP CYLINDER TOP (LT30HD)	P12544	1	
	164"	CLAMP CYLINDER TOP (LT40HD)	P12548	1	
Dark Orange	135"	CLAMP CYLINDER BASE (LT30HD)	P12543	1	
	157"	CLAMP CYLINDER BASE (LT40HD)	P12546	1	
Plain	159"	SIDE SUPPORT CYLINDER TOP (LT30HD)	P12547	1	
	186" <sup>2</sup>	SIDE SUPPORT CYLINDER TOP (LT40HD)	P12550	1	
Purple	173"	REAR TOE BOARD (LT30HD)	P12549	1	
	208" <sup>2</sup>	REAR TOE BOARD (LT40HD)	P12551	1	
Green	52" <sup>2</sup>	LOADING ARM BRANCH TOP	P12537	2	
Yellow	55"	LOADING ARM BRANCH BASE	P12538	2	
Blue	151"	LOADING ARM CYLINDER TOP (LT30HD)	P12545	1	
	173"	LOADING ARM CYLINDER TOP (LT40HD)	P12549	1	
Red	151"	LOADING ARM CYLINDER BOTTOM (LT30HD)	P12545	1	
	173"	LOADING ARM CYLINDER BOTTOM (LT40HD)	P12549	1	

<sup>1</sup> 16" hose replaces 22" hose originally supplied.

<sup>2</sup> Hoses longer than those originally supplied. Longer hoses are interchangeable with original hoses.

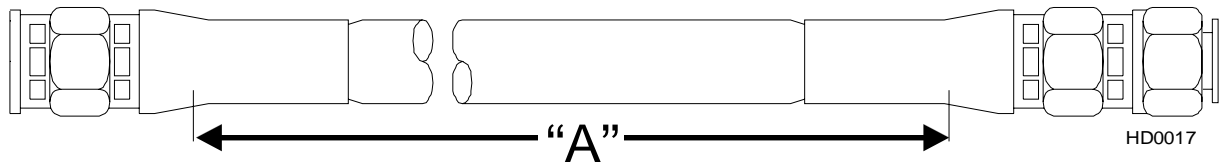


**FIG. 8-1**

<b>8.2 Hydraulic Hoses</b>					
<i>LT30HD</i>		<i>Rev. C7 - F4</i>			
<i>LT40HD</i>		<i>Rev. C7 - F4</i>			
COLOR	LENGTH "A"	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
Brown	22"	TOE BOARD RETURN (REVISIONS C7 - E6 ONLY)	P12534	2	
None	16"	HYDRAULIC PUMP TO VALVE (REVISIONS E7 - F7 ONLY)	P12705 <sup>1</sup>	1	
Gold	14"	LOG TURNER CYLINDER BASE	P12533	1	
Grey	27"	LOG TURNER CYLINDER TOP	P12535	1	
Bright Yellow	84" <sup>2</sup>	FRONT TOE BOARD (LT30HD)	P12539	1	
	106" <sup>2</sup>	FRONT TOE BOARD (LT40HD)	P12541	1	
Silver	151"	SIDE SUPPORT CYLINDER BASE (LT30HD)	P12545	1	
	173"	SIDE SUPPORT CYLINDER BASE (LT40HD)	P12549	1	
White	142"	CLAMP CYLINDER TOP (LT30HD)	P12544	1	
	164"	CLAMP CYLINDER TOP (LT40HD)	P12548	1	
Orange	135"	CLAMP CYLINDER BASE (LT30HD)	P12543	1	
	157"	CLAMP CYLINDER BASE (LT40HD)	P12546	1	
Plain	159"	SIDE SUPPORT CYLINDER TOP (LT30HD)	P12547	1	
	186" <sup>2</sup>	SIDE SUPPORT CYLINDER TOP (LT40HD)	P12550	1	
Black	173"	REAR TOE BOARD (LT30HD)	P12549	1	
	108" <sup>2</sup>	REAR TOE BOARD (LT40HD)	P12551	1	
Dark Green	52" <sup>2</sup>	LOADING ARM BRANCH TOP	P12537	2	
Dark Yellow	55"	LOADING ARM BRANCH BASE	P12538	2	
Blue	151"	LOADING ARM CYLINDER TOP (LT30HD)	P12545	1	
	173"	LOADING ARM CYLINDER TOP (LT40HD)	P12549	1	
Red	151"	LOADING ARM CYLINDER BOTTOM (LT30HD)	P12545	1	
	173"	LOADING ARM CYLINDER BOTTOM (LT40HD)	P12549	1	

<sup>1</sup> 16" hose replaces 22" hose originally supplied.

<sup>2</sup> Hoses longer than those originally supplied with Rev. C7 - E6. Longer hoses are interchangeable with original hoses.



**FIG. 8-2**



<b>8.3 Hydraulic Control Box</b>				
<i>LT30HD</i>		<i>Rev. F3 - F7</i>		
<i>LT40HD</i>		<i>Rev. F3 - F7</i>		
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
1	<b>BOX, HYDRAULIC PUMP HOUSING</b>	W12852	1	
2	<b>COVER, HYDRAULIC PUMP HOUSING</b>	W12849	1	
3	<b>PUMP KIT, HYDRAULIC W/MOTOR</b>	061764 <sup>1</sup>	1	
	Pump, Hydraulic Replacement Monarch Model #12070	016199	1	
	Motor Kit, Hydraulic Replacement	052807	1	
	Motor, 12 VDC Hydraulic Pump #08714 (Iskra)	038683 <sup>2</sup>	1	◆
	Brush Kit, 4-Valve Hydraulic Pump Motor #08658-1 (Iskra)	038682 <sup>2</sup>	1	
	Brush Kit, 4-Valve Hydraulic Pump Motor #08658	P09585 <sup>2</sup>	1	◆
	Field Kit, 4-Valve Hydraulic Pump Motor #08618	P09584 <sup>3</sup>	1	◆
	Bearing, Base Motor #02318	P12513	1	
	Wire Assembly, Motor Brush Ground	052806 <sup>4</sup>	1	
4	Cap, Hydraulic Pump Vented Fill #03171	P12817	1	
	O-Ring, Hydraulic Pump/Reservoir #02352	P10198	1	
	Seal, Hydraulic Pump/Motor #02330	P10315	1	
	<b>SOLENOID KIT, 200A 12V SPST</b>	015783 <sup>5</sup>	1	
	<b>FLUID, 1-QUART DEXRON III HYDRAULIC</b>	P12742	2 1/4 gal.	
	<b>FLUID, 1-GALLON CONOCO MV32 HYDRAULIC</b>	006397 <sup>6</sup>	2 1/4 gal.	
	<b>FLUID, 1-GALLON EXXON UNIVIS HVI 13 <sup>7</sup> HYDRAULIC</b>	P12822	2 1/4 gal.	
5	<b>BOLT, 3/8-16 X 1" HEX HEAD GRADE 5</b>	F05007-87	8	
6	<b>BOLT, 3/8-16 X 5" HEX HEAD GRADE 2</b>	F05007-5	4	
7	<b>WASHER, 3/8" SAE FLAT</b>	F05011-3	8	
8	<b>WASHER, 3/8" SPLIT LOCK</b>	F05011-4	4	
9	<b>WASHER, 3/8" EXTERNAL STAR LOCK</b>	F05011-36	4	
10	<b>NUT, 3/8-16 HEX NYLON LOCK</b>	F05010-10	4	
11	<b>VALVE, HYDRAULIC 5-HANDLE</b>	P12700 <sup>8</sup>	1	
	Handle Kit, Hydraulic 5-Handle Valve 07151	018040	1	
	Switch, Hydraulic Valve Electric	024198 <sup>9</sup>	1	
	Operators, Spool	014218-1	1	
	Rack, Paddles	014218-3	1	
	Spring Kit, Centering w/Bolts	014218-4	1	
	Pin Kit, Paddle	014218-5	1	
	Paddle, Valve Operator	014218-6	1	
	Bracket, Micro Switch Mount	014218-7	1	
12	Valve, Main Relief 07184	014218-8	1	
	Valve Kit, Low-Pressure Check Replacement	014534	1	
13	Valve, Low-Pressure Check 07186	014533	1	◆
	Instruction Sheet, Check Valve Replacement	A12869-649	1	◆

## 8

## Hydraulic System

### Hydraulic Control Box

	Valve Kit, High-Pressure Check Replacment	A12869	1	
14	Valve, High-Pressure Check 04282	P12844 <sup>10</sup>	2	◆
	Instruction Sheet, Check Valve Replacement	A12869-649	1	◆
15	<b>BOLT, 1/4-20 X 1 3/4" HEX HEAD GRADE 2</b>	F05005-4	2	
16	<b>WASHER, 1/4" SAE FLAT</b>	F05011-11	2	
17	<b>NUT, 1/4-20 HEX SELF-RETAINING</b>	F05010-9	2	
18	<b>HOSE W/FITTINGS, 3/8" DIA. X 22" HYDRAULIC</b>	P12705	1	
19	<b>FITTING, 3/8" O-RING - 1/4" JIC</b>	P26284	8	
20	<b>FITTING, #6 SAE - 3/8" JIC ELBOW</b>	P12704	2	
21	<b>FITTING, #6-8 (1/2" NPT) - 3/8" HOSE BARB ELBOW</b>	P12707	2	
22	<b>FITTING, #6-6 (3/8" NPT) - 3/8" HOSE BARB ELBOW</b>	P12708	2	
23	<b>HOSE, 3/8" LOW PRESSURE HYDRAULIC</b>	R01892-1	A/R	
24	<b>FITTING, #6 SAE - #6 HOSE BARB ELBOW</b>	P12722	2	
25	<b>FITTING, #6 SAE - #6 NPT ADAPTOR</b>	P12723	1	
26	<b>CLAMP, 3/8" I.D. HOSE</b>	P12725	6	
27	<b>DECAL, 1994 HYDRAULIC CONTROL BOX</b>	S12726	1	
28	<b>MANIFOLD, HYDRAULIC CARTRIDGE FILTER</b>	P22683	1	
29	Filter, S28 Hydraulic Cartridge	P20301	1	
30	<b>BOLT, 1/4-20 X 1/2" HEX HEAD</b>	F05005-15	2	
31	<b>WASHER, 1/4" SPLIT LOCK</b>	F05011-14	2	
32	<b>FITTING, #8 SAE - #6 JIC HOSE</b>	P12703	1	
33	<b>FITTING, #8 SAE MALE - 3/8" NPT FEMALE</b>	P12706	1	
34	<b>FITTING, 3/8" NPT - 3/8" HOSE BARB</b>	P12724	1	
35	<b>CLAMP, 11/16" HOSE</b>	P12739	4	

<sup>1</sup> Pump Kit 061764 replaces Pump P12701 1/09. Kit includes P12701 plus Brush Ground Wire Kit 052805 to insure adequate ground connection.

<sup>2</sup> 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. Use Brush Kit 038682 to service Iskra motor.

<sup>3</sup> Part no longer available. Replace entire motor (Retro Kit 052807).

<sup>4</sup> Brush Ground Wire 052806 added 7/06 to improve ground connection. Kit 052805 to be supplied to all customers who purchased sawmills with Iskra pump motors after 1/06. Kit includes wire, hardware and instructions.

<sup>5</sup> Solenoid supplied separately from pump and mounted to valve bracket after 5/96. Flat base solenoid #3301 replaces curved base solenoid #03336. Solenoid bracket may be bent to fit mount on motor. 015783 solenoid kit includes 200 amp solenoid 015470 to replace P09595 100 amp solenoid.

<sup>6</sup> Conoco MV32 Fluid 006397 replaces Univas HVI 26 Fluid P12823 (formerly named J26) used prior to 1/08. Fluids are interchangeable.

<sup>7</sup> Formerly named J13.

<sup>8</sup> Rear-port valve replaced with side-port valve (See inset). Alternate fittings required for side-port valve. See Items 30-33.

<sup>9</sup> 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).

<sup>10</sup> Monarch check valves 04282 replace Monarch check valves 07197 (Wood-Mizer part number N/A) to prevent unwanted toe board movement when the toe boards are not in use.



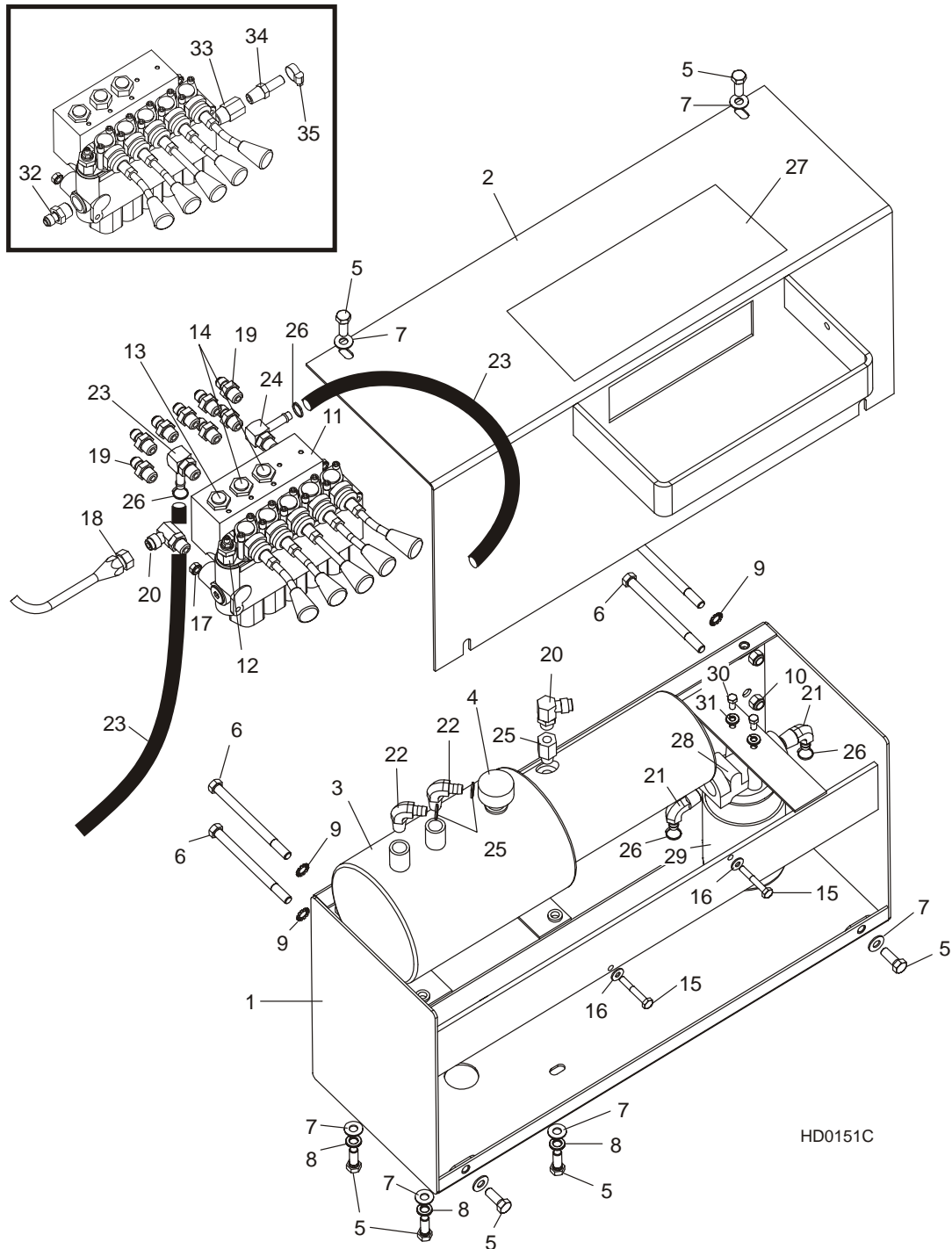


FIG. 8-3



<b>8.4 Hydraulic Control Box</b>				
<i>LT30HD</i>		<i>Rev. E7 - F2</i>		
<i>LT40HD</i>		<i>Rev. E7 - F2</i>		
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
1	<b>BOX, HYDRAULIC PUMP HOUSING</b>	W12711	1	
2	<b>COVER, HYDRAULIC PUMP HOUSING</b>	W12717	1	
3	<b>PUMP KIT, HYDRAULIC W/MOTOR</b>	061764 <sup>1</sup>	1	
	Pump, Hydraulic Replacement Monarch Model #12070	016199	1	
	Motor Kit, Hydraulic Replacement	052807	1	
	Motor, 12 VDC Hydraulic Pump #08714 (Iskra)	038683 <sup>2</sup>	1	◆
	Brush Kit, 4-Valve Hydraulic Pump Motor #08658-1 (Iskra)	038682 <sup>2</sup>	1	
	Brush Kit, 4-Valve Hydraulic Pump Motor #08658	P09585 <sup>2</sup>	1	◆
	Bearing, Base Motor #02318	P12513	1	
	Wire Assembly, Motor Brush Ground	052806 <sup>3</sup>	1	
4	Cap, Hydraulic Pump Vented Fill #03171	P12817	1	
	O-Ring, Hydraulic Pump/Reservoir #02352	P10198	1	
	Seal, Hydraulic Pump/Motor #02330	P10315	1	
	<b>SOLENOID KIT, 200A 12V SPST</b>	015783 <sup>4</sup>	1	
	<b>FLUID, 1-QUART DEXRON III HYDRAULIC</b>	P12742	2 1/4 gal.	
	<b>FLUID, 1-GALLON CONOCO MV32 HYDRAULIC</b>	006397 <sup>5</sup>	2 1/4 gal.	
	<b>FLUID, 1-GALLON EXXON UNIVIS HVI 13 <sup>6</sup> HYDRAULIC</b>	P12822	2 1/4 gal.	
5	<b>BOLT, 3/8-16 X 1" HEX HEAD GRADE 5</b>	F05007-87	8	
6	<b>BOLT, 3/8-16 X 5" HEX HEAD GRADE 2</b>	F05007-5	4	
7	<b>WASHER, 3/8" SAE FLAT</b>	F05011-3	8	
8	<b>WASHER, 3/8" SPLIT LOCK</b>	F05011-4	4	
9	<b>WASHER, 3/8" EXTERNAL STAR LOCK</b>	F05011-36	4	
10	<b>NUT, 3/8-16 HEX NYLON LOCK</b>	F05010-10	4	
11	<b>VALVE, HYDRAULIC 5-HANDLE</b>	P12700 <sup>7</sup>	1	
	Handle Kit, Hydraulic 5-Handle Valve 07151	018040	1	
	Switch, Hydraulic Valve Electric	024198 <sup>8</sup>	1	
	Operators, Spool	014218-1	1	
	Rack, Paddles	014218-3	1	
	Spring Kit, Centering w/Bolts	014218-4	1	
	Pin Kit, Paddle	014218-5	1	
	Paddle, Valve Operator	014218-6	1	
	Bracket, Micro Switch Mount	014218-7	1	
12	Valve, Main Relief 07184	014218-8	1	
	Valve Kit, Low-Pressure Check Replacement	014534	1	
13	Valve, Low-Pressure Check 07186	014533	1	◆
	Instruction Sheet, Check Valve Replacement	A12869-649	1	◆
	Valve Kit, High-Pressure Check Replacment	A12869	1	

14	Valve, High-Pressure Check 04282	P12844 <sup>9</sup>	2	◆
	Instruction Sheet, Check Valve Replacement	A12869-649	1	◆
15	<b>BOLT, 1/4-20 X 1 3/4" HEX HEAD GRADE 2</b>	F05005-4	2	
16	<b>WASHER, 1/4" SAE FLAT</b>	F05011-11	2	
17	<b>NUT, 1/4-20 HEX SELF-RETAINING</b>	F05010-9	2	
18	<b>HOSE W/FITTINGS, 3/8" DIA. X 22" HYDRAULIC</b>	P12705	1	
19	<b>FITTING, 3/8" O-RING - 1/4" JIC</b>	P26284	8	
20	<b>FITTING, #6 SAE - 3/8" JIC ELBOW</b>	P12704	2	
21	<b>FITTING, #6-8 (1/2" NPT) - 3/8" HOSE BARB ELBOW</b>	P12707	2	
22	<b>FITTING, #6-6 (3/8" NPT) - 3/8" HOSE BARB ELBOW</b>	P12708	2	
23	<b>HOSE, 3/8" LOW PRESSURE HYDRAULIC</b>	R01892-1	A/R	
24	<b>FITTING, #6 SAE - #6 HOSE BARB ELBOW</b>	P12722	2	
25	<b>FITTING, #6 SAE - #6 NPT ADAPTOR</b>	P12723	1	
26	<b>CLAMP, 3/8" I.D. HOSE</b>	P12725	6	
27	<b>DECAL, 1994 HYDRAULIC CONTROL BOX</b>	S12726	1	
28	<b>MANIFOLD, HYDRAULIC CARTRIDGE FILTER</b>	P22683	1	
29	Filter, S28 Hydraulic Cartridge	P20301	1	
30	<b>BOLT, 1/4-20 X 1/2" HEX HEAD</b>	F05005-15	2	
31	<b>WASHER, 1/4" SPLIT LOCK</b>	F05011-14	2	
32	<b>FITTING, #8 SAE - #6 JIC HOSE</b>	P12703	1	
33	<b>FITTING, #8 SAE MALE - 3/8" NPT FEMALE</b>	P12706	1	
34	<b>FITTING, 3/8" NPT - 3/8" HOSE BARB</b>	P12724	1	
35	<b>CLAMP, 11/16" HOSE</b>	P12739	4	

<sup>1</sup> Pump Kit 061764 replaces Pump P12701 1/09. Kit includes P12701 plus Brush Ground Wire Kit 052805 to insure adequate ground connection.

<sup>2</sup> 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. Use Brush Kit 038682 to service Iskra motor. Replaces Monarch #08111 originally supplied before 8/94.

<sup>3</sup> Brush Ground Wire 052806 added 7/06 to improve ground connection. Kit 052805 to be supplied to all customers who purchased sawmills with Iskra pump motors after 1/06. Kit includes wire, hardware and instructions.

<sup>4</sup> Solenoid supplied separately from pump and mounted to valve bracket after 5/96. Flat base solenoid #3301 replaces curved base solenoid #03336. Solenoid bracket may be bent to fit mount on motor. 015783 solenoid kit includes 200 amp solenoid 015470 to replace P09595 100 amp solenoid.

<sup>5</sup> Conoco MV32 Fluid 006397 replaces Univas HVI 26 Fluid P12823 (formerly named J26) used prior to 1/08. Fluids are interchangeable.

<sup>6</sup> Formerly named J13.

<sup>7</sup> Rear-port valve replaced with side-port valve (See inset). Alternate fittings required for side-port valve. See Items 32-35.

<sup>8</sup> 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).

<sup>9</sup> Monarch check valves 04282 replace Monarch check valves 07197 (Wood-Mizer part number N/A) to prevent unwanted toe board movement when the toe boards are not in use.

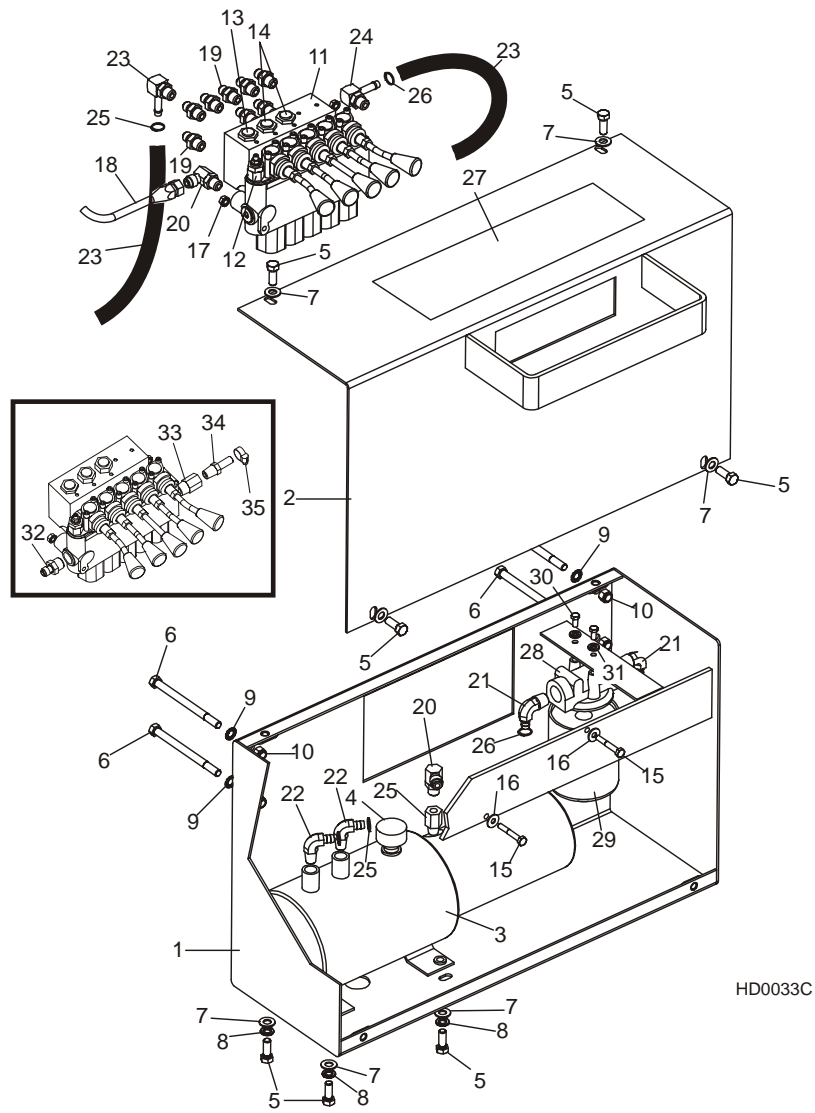


FIG. 8-4

## 8

# Hydraulic System

## Hydraulic Control Box

<b>8.5 Hydraulic Control Box</b>				
<i>LT30HD</i>		<i>Rev. C7 - E6</i>		
<i>LT40HD</i>		<i>Rev. C7 - E6</i>		
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
1	<b>BOX, HYDRAULIC PUMP HOUSING</b>	W10164	1	
2	<b>COVER, HYDRAULIC PUMP HOUSING</b>	W10169	1	
3	<b>PUMP, FOUR 4-WAY VALVE HYDRAULIC (See Section 8.6 Hydraulic Pump/Valve FOR PUMP DETAIL)</b>	P10371	1	
4	<b>BOLT, 3/8-16 X 1" HEX HEAD GRADE 5</b>	F05007-87	7	
5	<b>BOLT, 3/8-16 X 5" HEX HEAD GRADE 2</b>	F05007-5	4	
6	<b>WASHER, 3/8" SAE FLAT</b>	F05011-3	10	
7	<b>WASHER, 3/8" EXTERNAL STAR LOCK</b>	F05011-36	4	
8	<b>NUT, 3/8-16 HEX NYLON LOCK</b>	F05010-10	7	
	<b>VALVE ASSEMBLY, HYDRAULIC TOE BOARD RELEASE</b>	A09680	1	
9	Block, Toe Board Release Valve	S09681-W	1	◆
10	Spool, Toe Board Release Valve	S09682-W	1	◆
11	O-Ring, Hydraulic Toe Board Release Valve	P09685	2	
12	Ring, 5/8" Shaft #5100-62	F04254-2	2	
13	Pin, 3/16" X 2 1/2" Roll	F05012-27	1	
14	Pin, 1/8" X 3/4" Roll	F05012-6	3	
15	Fitting, 90° Elbow 1/8" NPT X 1/4" Tube	P09736	1	
16	Ball, 3/16" Diameter Steel	P09744	2	◆
17	Ball, 3/8" Diameter Steel	P09133	2	◆
18	Spring, Toe Board Release Valve	P09135	2	◆
19	Fitting, C5205 X 4 X 4 Male	P09143	2	
20	<b>SCREW, 1/4-20 X 1/2" SLOTTED HEX HEAD</b>	F05015-1	2	
21	<b>HOSE, TOE BOARD RETURN</b>	S09798	1	
22	<b>FITTING, 90° ELBOW 1/8" NPT X 1/4" TUBE</b>	P09736	1	
23	<b>FITTING, 1/4" NPT TO 1/8" REDUCER</b>	P10373	1	
24	<b>FITTING, C3409X4 90° STREET ELBOW</b>	P09139	5	
25	<b>FITTING, 90° MALE ELBOW</b>	P09142	3	
	<b>VALVE, TOE BOARD CHECK 'T'</b>	A11687	2	
26	Body, Tapped Check Valve	S11688-W	1	◆
27	Seat, Brass Check Valve	S11689-W	1	◆
28	Spring, Check Valve	P11690	1	◆
29	Ball, 1/4" Hardened Steel	P11691	2	◆
30	<b>DECAL, HYDRAULIC CONTROL BOX 4-HANDLE</b>	S11760	1	

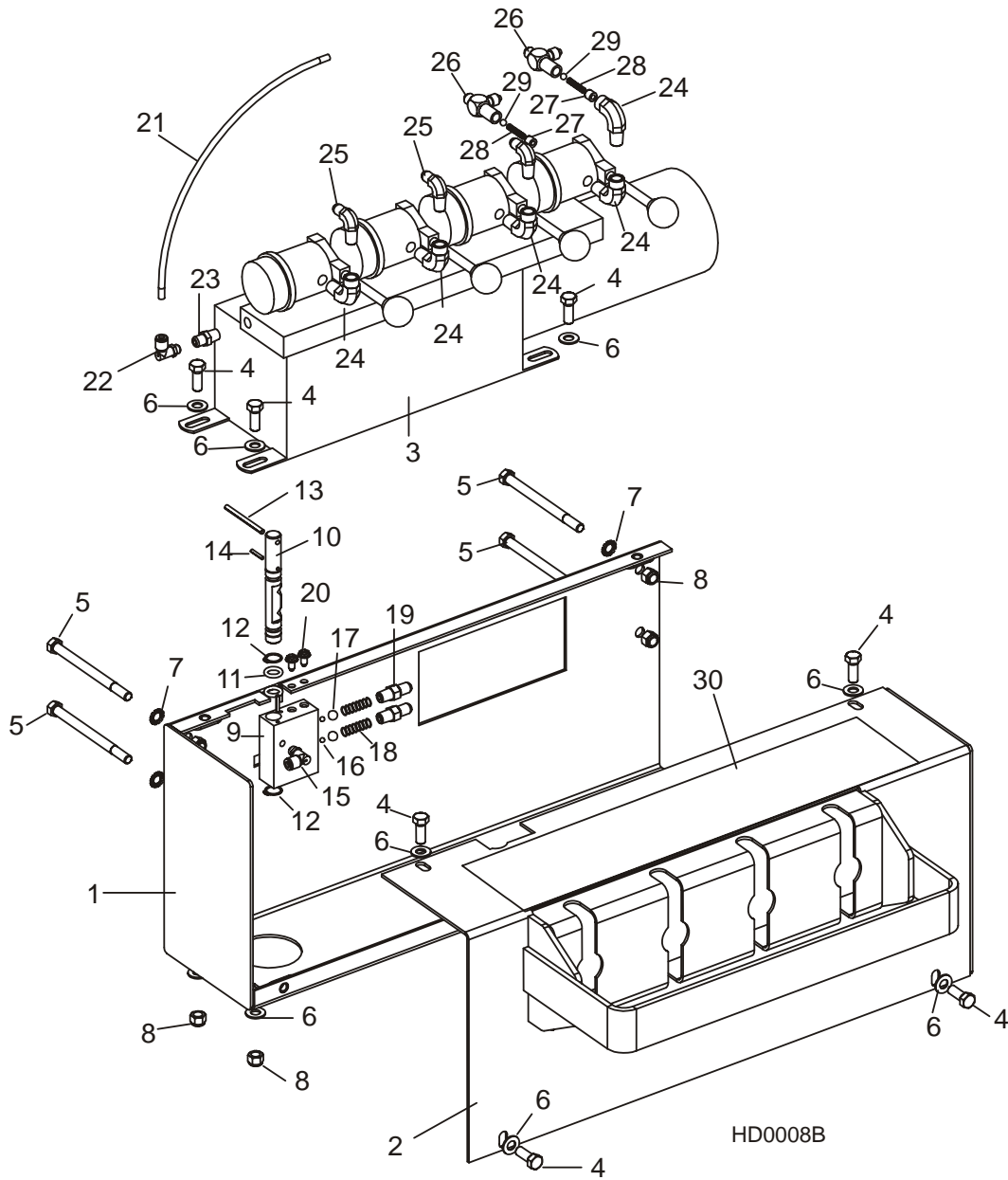


FIG. 8-5

# 8 Hydraulic System

## Hydraulic Pump/Valve

<b>8.6 Hydraulic Pump/Valve</b>					
	<b>LT30HD</b>	<b>Rev. C7 - E6</b>			
	<b>LT40HD</b>	<b>Rev. C7 - E6</b>			
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	MONARCH PART #	PART #	QTY.	
	<b>PUMP, FOUR 4-WAY VALVE HYDRAULIC MONARCH</b>	#02414	P10371	1	
1	Valve Assembly, 4-Way Monarch (Toe Board)	#00647	P11581	1	
2	Electrical Parts Kit, Hydraulic Pump Valve	#03721	P09593	1	
3	Spring, Hydraulic Pump Valve Contact	#00188	P09846	1	
4	O-ring, Hydraulic Pump Valve Cover	#02354	P09592	1	
5	Valve Assembly, 4-Way Monarch	#00524	P10143	3	
6	Electrical Parts Kit, Hydraulic Pump Valve	#03721	P09593	1	
7	Spring, Hydraulic Pump Valve Contact	#00188	P09846	1	
8	O-ring, Hydraulic Pump Valve Cover	#02354	P09592	1	
9	Handle Assembly, Hydraulic Pump Valve	#00172	P09594	4	
10	Spring, Hydraulic Pump Valve Handle	#00018	P09753	4	
11	Solenoid, 12 VDC 3 Post Insulated Ground	#3301	P09595 <sup>1</sup>	1	
	Motor Kit, Hydraulic Replacement	N/A	052807	1	
12	Motor, 12 VDC Hydraulic Pump #08714 (Iskra)	#08714	038683 <sup>2</sup>	1	◆
	Brush Kit, 4-Valve Hydraulic Pump Motor #08658-I (Iskra)	#08658-I	038682 <sup>2</sup>	1	
	Brush Kit, 4-Valve Hydraulic Pump Motor #08658	#08658	P09585 <sup>2</sup>	1	◆
	Field Kit, 4-Valve Hydraulic Pump Motor	#08618	P09584 <sup>3</sup>	1	◆
	Bearing, Base Motor #02318	#02318	P12513	1	
	Wire Assembly, Motor Brush Ground	N/A	052806 <sup>4</sup>	1	
13	Cap, Hydraulic Pump Vented Fill	#01143	P09596	1	
14	O-ring, Hydraulic Pump/Reservoir	#02352	P10198	1	
15	Seal, Hydraulic Pump/Motor	#02330	P10315	1	
16	Pump, Hydraulic Replacement	#02414	P10392	1	
	<b>WASHER KIT, HYDRAULIC MOTOR THRUST</b>		P12275 <sup>5</sup>	1	
	<b>FLUID, 1-QUART DEXRON III HYDRAULIC</b>		P12742	2 1/4 gal.	
	<b>FLUID, 1-GALLON CONOCO MV32 HYDRAULIC</b>		006397 <sup>6</sup>	2 1/4 gal.	
	<b>FLUID, 1-GALLON EXXON UNIVIS HVI 13 <sup>7</sup> HYDRAULIC</b>		P12822	2 1/4 gal.	

<sup>1</sup> Flat base solenoid #3301 replaces curved base solenoid #03336. Solenoid bracket may be bent to fit mount on motor.

<sup>2</sup> 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. Use Brush Kit 038682 to service Iskra motor. Replaces Monarch #08111 originally supplied before 8/94.

<sup>3</sup> Part no longer available. Replace entire motor with service kit 052807.

<sup>4</sup> Brush Ground Wire 052806 added 7/06 to improve ground connection. Kit 052805 to be supplied to all customers who purchased saw-mills with Iskra pump motors after 1/06. Kit includes wire, hardware and instructions.

<sup>5</sup> Kit contains one .010" Steel Thrust Washer, two .020" Fiber Thrust Washers, and four .050" Fiber Thrust Washers for use in adjusting drive motor end-play.

<sup>6</sup> Conoco MV32 Fluid 006397 replaces Univis HVI 26 Fluid P12823 (formerly named J26) used prior to 1/08. Fluids are interchangeable.

<sup>7</sup> Formerly named J13.



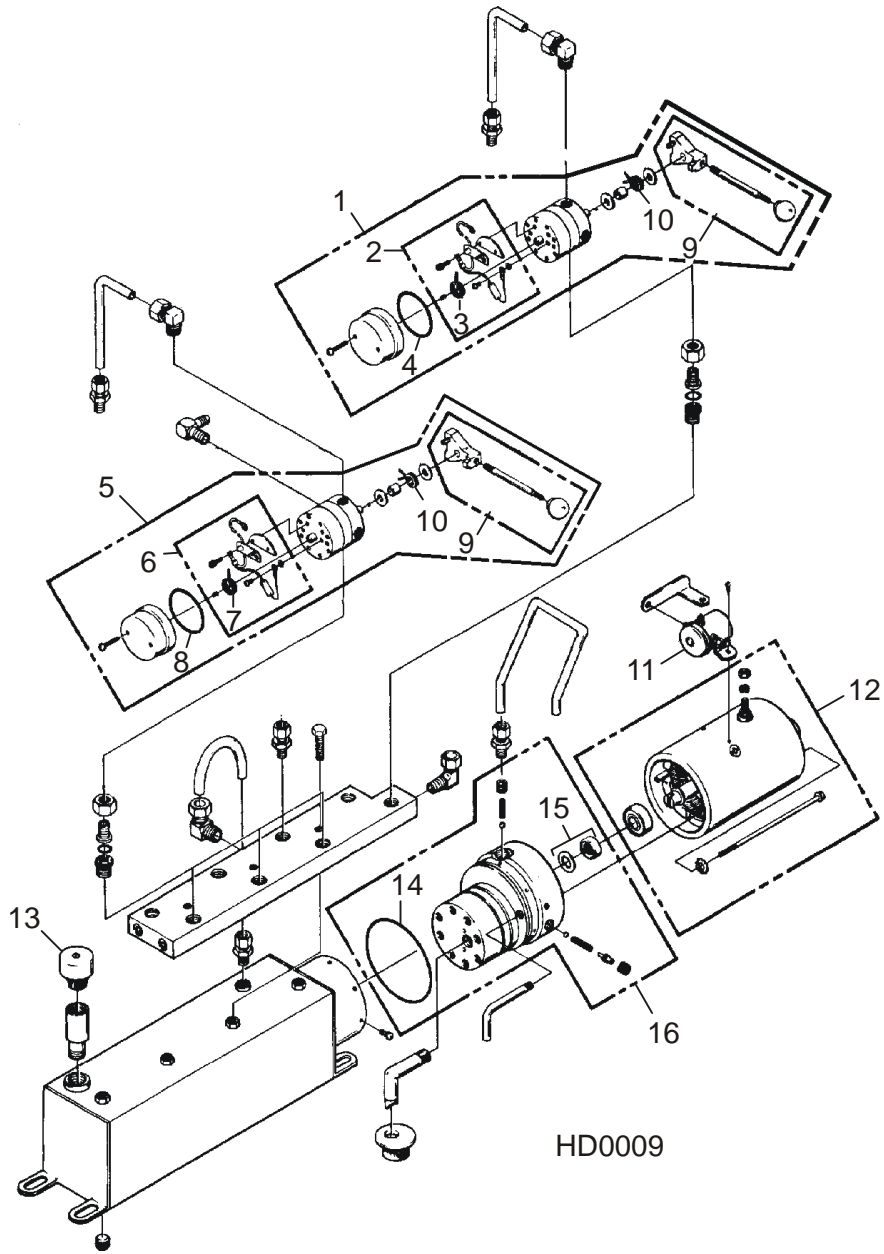


FIG. 8-6

<b>8.7 Hydraulic Power Supply Strip</b>				
<i>Retrofit</i>				
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>CONTACT HARDWARE KIT</b>	A10073-N <sup>1</sup>	1	
	Contact Assembly, Hydraulic Power Supply (Positive)	A11971 <sup>2</sup>	1	
	Contact Kit, Hydraulic Power Supply Positive	007720	1	
1	Contact, Hydraulic Power Supply	014532	1	
2	Spring, Positive Contact	P10077	2	
3	Bolt, 5/16" X 3/4" Shoulder (1/4-20 Thread) Stainless	F05006-143 <sup>3</sup>	2	
4	Bolt, 5/16-18 x 1/2" Socket Button Head	F05006-20	1	
5	Insulator, Positive Contact	S10072	1	
6	Bracket, Positive Contact Mounting	S11972	1	
7	Washer, 1/4" SAE Flat	F05011-11	2	
	Cable Assy, Hydraulic Positive Contact	015885	1	
8	Cable, #1 Weld	R01971	2.5 Ft	◆
9	Terminal, 5/16" Ring #1-2 Gauge	F05092-16	2	
10	Bolt, 1/4-20 X 1" Hex Head Grade 2	F05005-38	2	
11	Nut, 1/4-20 Hex Self-Locking	F05010-9	2	
12	Bolt, 3/8-16 X 1" Hex Head Grade 5	F05007-87	2	
13	Washer, 3/8" SAE Flat	F05011-3	2	
14	Nut, 3/8-16 Hex Nylon Lock	F05010-10	2	
	Contact Assembly, Hydraulic Power Supply (Ground)	010102 <sup>4</sup>	1	
	Contact Kit, Hydraulic Power Supply Ground	007721	1	
15	Contact, Hydraulic Power Supply (Ground)	014320	1	
16	Bolt, 5/16-18 X 1/2" Hex Head Grade 5	F05006-15	2	
17	Washer, 5/16" Split Lock	F05011-13	2	
18	Spring, Ground Contact	P04282	2	
19	Bracket, Ground Contact Mounting	S10067	1	
	Cable Assembly, Hydraulic Negative Contact	024676	1	
20	Cable, #1 Weld	R01971	2.2 Ft	◆
21	Terminal, 5/16" Ring #1-2 Gauge	F05092-16	1	
22	Bolt, 3/8-16 X 4 1/2" Hex Head Grade 2	F05007-35	2	
23	Washer, 3/8" SAE Flat	F05011-3	2	
24	Nut, 3/8-16 Hex Nylon Lock	F05010-10	2	
	<b>CONTACT 6' STRIP ASSEMBLY</b>	A12042-N <sup>1</sup>	1	
25	Screw, 1/4-20 X 1/2" Slotted Hex Head	F05015-1	8 <sup>5</sup>	
26	Housing, 6' Contact Strip	P11976	1	
	Strip, 6' Contact With Cable	A12043-N	1	
27	Strip, 6' Contact	S10075	1	◆
28	Cable, #1 Weld	R01971	3 Ft	◆
29	Terminal, 5/16" Ring #1-2 Gauge	F05092-16	2	
30	Bolt, 5/16-18 X 3/4" Hex Head Black Nylon	F05006-45	1	

<b>31</b>	Nut, 5/16-18 Hex Black Nylon	F05010-86	1	
	Tube, 5/8" Heat Shrink	R01950-5	.10 Ft	◆
<b>32</b>	Grommet, 5/8" Wire	P04137	1	

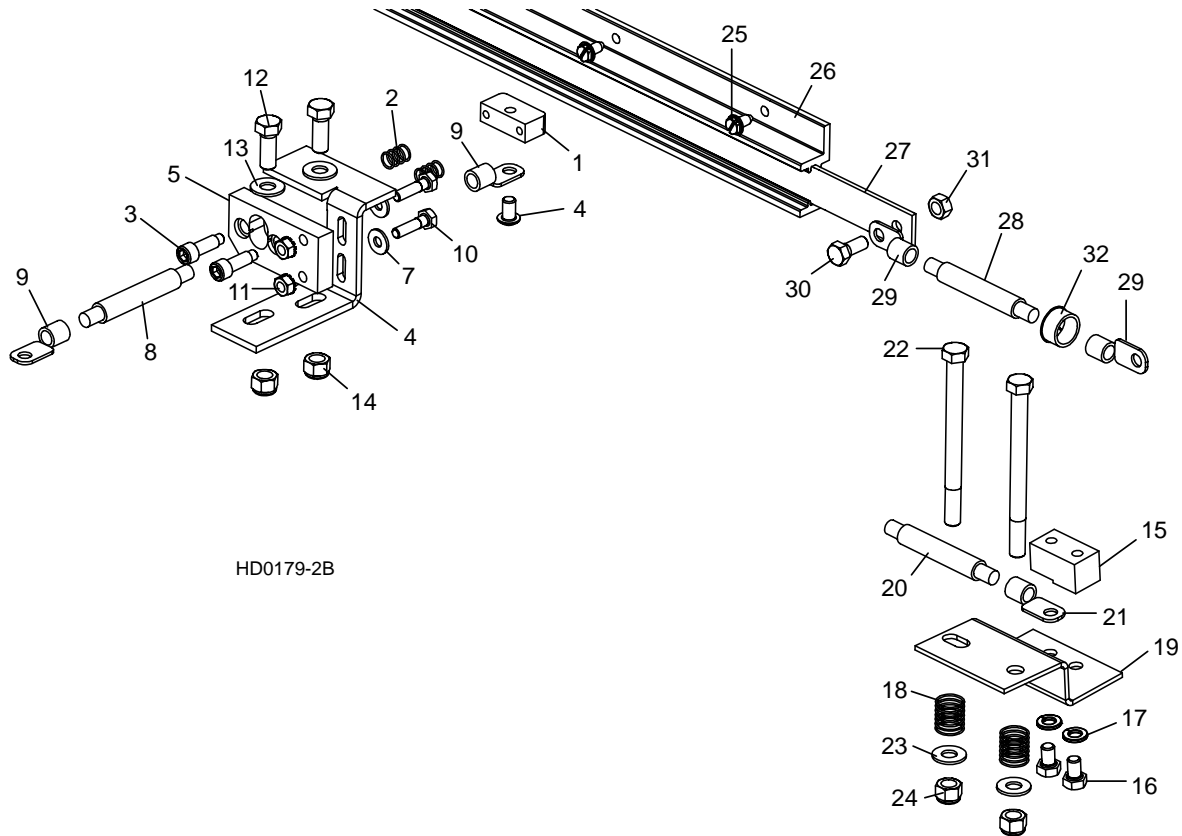
<sup>1</sup> A10130 Kit no longer available. Order contact kit A10073-N & strip assembly A12042-N. [See Instruction Sheet #269.](#)

<sup>2</sup> Kit A11971 includes updated contact and hardware. [See Section 8.8](#) to service original components.

<sup>3</sup> Stainless Steel Bolt F05006-143 replaces F05006-44 to prevent corrosion (12/09).

<sup>4</sup> Kit 010102 includes updated contact and hardware. [See Section 8.8](#) to service original components.

<sup>5</sup> Quantity changed from 14 to 8 (2/97).



HD0179-2B

**FIG. 8-7**

## 8

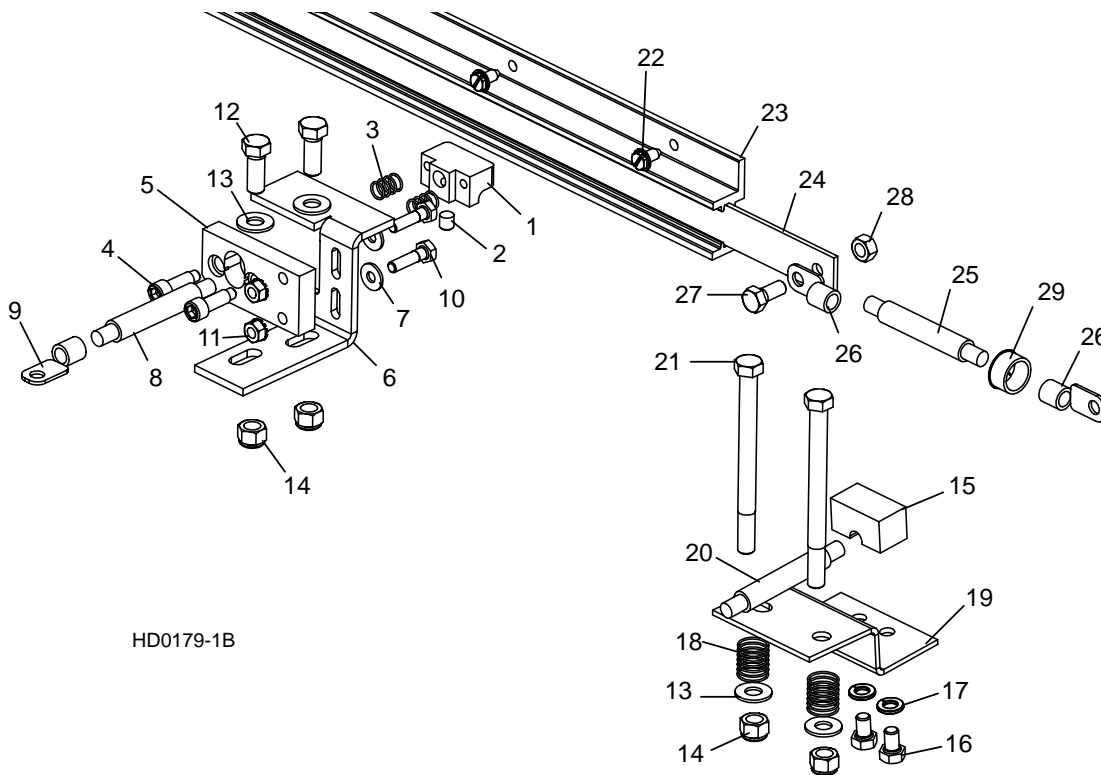
## Hydraulic System

## Hydraulic Power Supply Strip

<b>8.8 Hydraulic Power Supply Strip</b>				
<i>LT30HD</i>		<i>Rev. C7 - F7</i>		
<i>LT40HD</i>		<i>Rev. C7 - F7</i>		
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>CONTACT KIT, HYDRAULIC 6' POWER SUPPLY</b>	A10130 <sup>1</sup>	1	◆
	Contact Hardware Kit	A10073-N	1	
	Contact Assembly, Hydraulic Power Supply (Positive)	A11971 <sup>2</sup>	1	◆
	Contact Kit, Hydraulic Power Supply Positive	007718	1	
1	Contact, Hydraulic Power Supply w/Set Screw	S11970 <sup>3</sup>	1	
2	Screw, 5/16-24 X 3/8 Socket Head Oval Point Set	F05006-40	1	
3	Spring, Positive Contact	P10077	2	
4	Bolt, 5/16" X 3/4" Shoulder (1/4-20 Thread) Stainless	F05006-143 <sup>4</sup>	2	
5	Insulator, Positive Contact	S10072	1	
6	Bracket, Positive Contact Mounting	S11972	1	
7	Washer, 1/4" SAE Flat	F05011-11	2	
	Cable Assy, Hydraulic Positive Contact	015885	1	
8	Cable, #1 Weld	R01971	2.5 Ft	◆
9	Terminal, 5/16" Ring #1-2 Gauge	F05092-16 <sup>5</sup>	2	
10	Bolt, 1/4-20 X 1" Hex Head Grade 2	F05005-38	2	
11	Nut, 1/4-20 Hex Self-Locking	F05010-9	2	
12	Bolt, 3/8-16 X 1" Hex Head Grade 5	F05007-87	2	
13	Washer, 3/8" SAE Flat	F05011-3	4	
14	Nut, 3/8-16 Hex Nylon Lock	F05010-10	4	
	Contact Assembly, Hydraulic Power Supply (Ground)	A10066 <sup>6</sup>	1	
	Contact Kit, Hydraulic Power Supply Ground	007719	1	
15	Contact, Hydraulic Power Supply (Ground)	S10048 <sup>7</sup>	1	
16	Bolt, 5/16-18 X 1/2" Hex Head Grade 5	F05006-15	2	
17	Washer, 5/16" Split Lock	F05011-13	2	
18	Spring, Ground Contact	P04282	2	
19	Bracket, Ground Contact Mounting	S10067	1	
	Cable Assembly, Hydraulic Negative Contact	024676	1	
20	Cable, #1 Weld	R01971	2.2 Ft	◆
	Terminal, 5/16" 1-2Ga Ring	F05092-19	1	
21	Bolt, 3/8-16 X 4 1/2" Hex Head Grade 2	F05007-35	2	
	Contact 6' Strip Assembly	A12042-N <sup>8</sup>	1	
22	Screw, 1/4-20 X 1/2" Slotted Hex Head	F05015-1	8 <sup>9</sup>	
23	Housing, 6' Contact Strip	P11976 <sup>10</sup>	1	
	Strip, 6' Contact With Cable	A12043-N	1	
24	Strip, 6' Contact	S10075	1	◆
25	Cable, #1 Weld	R01971	3 Ft	◆
26	Terminal, 5/16" Ring #1-2 Gauge	F05092-16	2	

<b>27</b>	Bolt, 5/16-18 X 3/4" Hex Head Black Nylon	F05006-45	1	
<b>28</b>	Nut, 5/16-18 Hex Black Nylon	F05010-86	1	
	Tube, 5/8" Heat Shrink	R01950-5	.10 Ft	◆
<b>29</b>	Grommet, 5/8" Wire	P04137	1	

- <sup>1</sup> A10130 Kit no longer available. Order contact kit A10073-N & strip assembly A12042-N. [See Instruction Sheet #269.](#)
- <sup>2</sup> Kit A11971 includes updated parts ([See Section 8.7.](#)). Use component parts to service original design.
- <sup>3</sup> Set screw included with block after 1/99. S11970 used until 8/96. Upgrade to 014532 requires new S10072 insulator pad, F05092-16 ring terminal, and F05006-20 bolt ([See Section 8.7.](#)).
- <sup>4</sup> Stainless Steel Bolt F05006-143 replaces F05006-44 to prevent corrosion (12/09).
- <sup>5</sup> Additional ring terminal added with change of contact button 8/96.
- <sup>6</sup> Use kit 010102 to upgrade ground contact ([See Section 8.7.](#)).
- <sup>7</sup> S10048 used until 3/96. Upgrade to 014320 requires ring terminal F05092-16 and button head bolt F05006-20 ([See Section 8.7.](#)).
- <sup>8</sup> Replaces A10069 originally supplied on Rev. C7.00 - D2.00. Requires new contact button S11970.
- <sup>9</sup> Quantity changed from 14 to 8 (2/97).
- <sup>10</sup> Replaces P11032 originally supplied on Rev. C7.00 - D2.00. Requires new contact button S11970.



**FIG. 8-8**

### 8.9 Hydraulic Log Loader

**LT30HD**  
**LT40HD**

**Rev. F5 - F7**  
**Rev. F5 - F7**

REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>LOADER KIT, HYDRAULIC LOG (LT30HD)</b>	LTHDLA-30H	1	
	<b>LOADER KIT, HYDRAULIC LOG (LT40HD)</b>	LTHDLA	1	
1	Arm, Hydraulic Log Loading	W11805	1	
2	Fitting, 3/16" Grease	P04107	2	
3	Chain, Hydraulic Log Loader Safety	A04376	1	
4	Channel, Hydraulic Log Loading Foot	W09444	2	
5	Fitting, 3/16" Grease	P04107	2	
	Cylinder Assembly, Hydraulic Log Loading Arm	A09284 <sup>1</sup>	2	◆
6	Cylinder, 8" X 3" Hydraulic	P12847	1	
	Seal Kit, 8" x 3" Hydraulic Cylinder	P12956 <sup>2</sup>	1	
7	Fitting, C5205x4x4 Male Connector	P09143	2	
	Fitting Kit, 1/4NPT 4.0GPM Velocity Fuse	015832	1	
8	Fitting, 1/4NPT 4.0GPM Velocity Fuse	015750 <sup>3</sup>	2	◆
	Instruction Sheet, Velocity Fuse Replacement	015832-255	1	
9	Fitting, 0455x4x4 90° Swivel Elbow	P12199	1	
10	Pin, Loading Arm Mount	W09446	4	
11	Screw, 5/16-24 X 5/8" Self Tapping	F05015-15	8	
12	Pin, Loading Arm Cylinder Mount	S09251	2	
13	Washer, 1" SAE Flat	F05011-28	4	
14	Pin, 3/16" X 1 1/2" Cotter	F05012-23	4	
15	Fitting, C5705x5x4 Union 'T'	P09145	2	
16	Clamp, Hydraulic Hose	S09245	6	
17	Bolt, 5/16-18 X 3/4" Hex Head Grade 5	F05006-102 <sup>4</sup>	2	
18	Nut, 5/16-18 Hex Lock	F05010-6	2	
	Fitting, C3409x4 90° Elbow (Pump Valve; <a href="#">See Section 8.5 Hydraulic Control Box</a> )	P09139	1	
	Fitting, 90° Male Elbow (Pump Valve; <a href="#">See Section 8.5 Hydraulic Control Box</a> )	P09142	1	
	Hose Kit, Hydraulic Log Loader (LT30HD)	P10318	1	
	Hose Kit, Hydraulic Log Loader (LT40HD)	P09896	1	

<sup>1</sup> Cylinder assembly no longer available for service. Sell cylinder w/o fittings P12847 to insure compatibility of velocity fuses. Welded cylinder P12847 also replaces P09128 tie-rod cylinder for Rev. C7 - F4 ([See Section 8.10 Hydraulic Log Loader](#)).

<sup>2</sup> Seal kit applicable only to welded cylinders supplied on Rev. F5 - F7.

<sup>3</sup> Replaces 3.0GPM velocity fuse P11566 originally supplied.

<sup>4</sup> Grade 5 Hex Head Bolt F05006-102 replaces self-tapping bolt F05006-30 to eliminate shearing of bolts head (4/08).

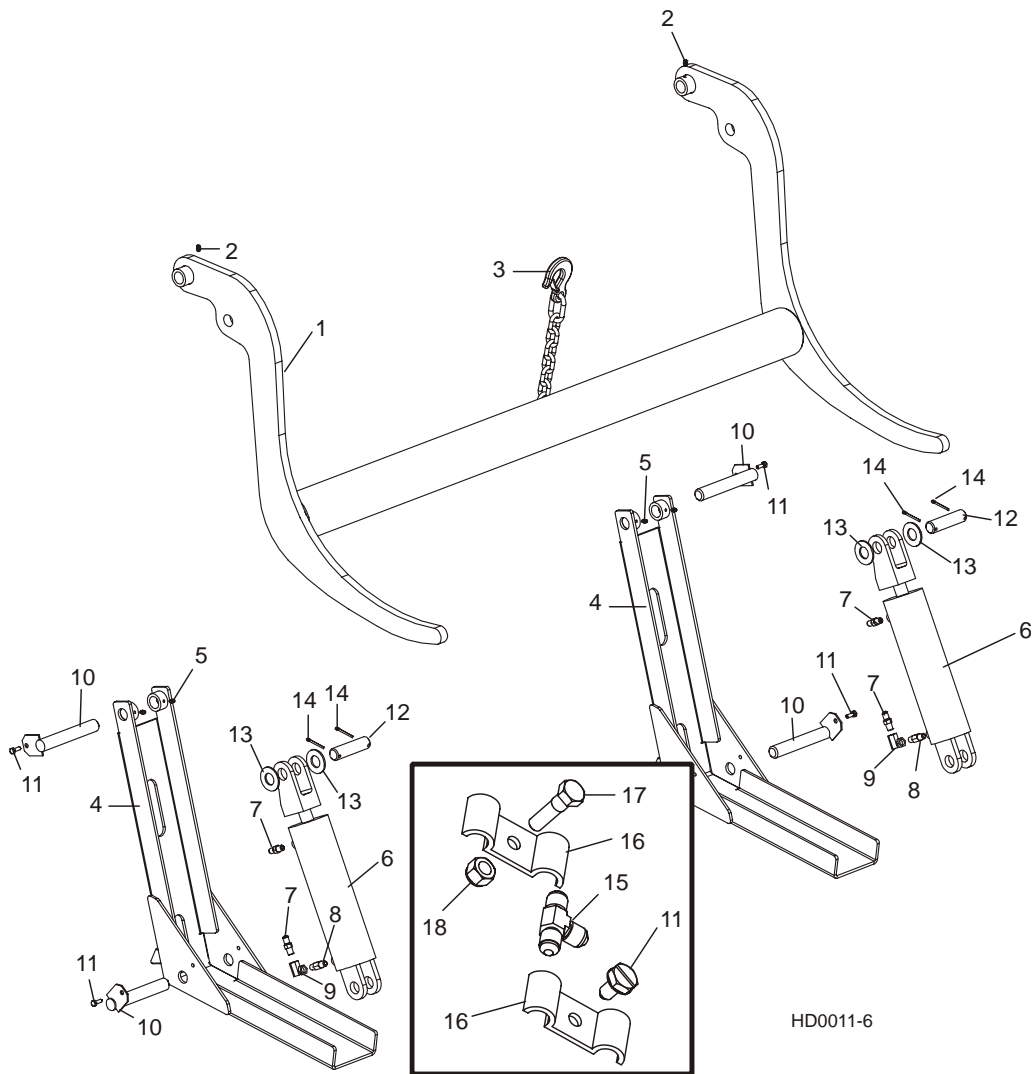


FIG. 8-9

### 8.10 Hydraulic Log Loader

**LT30HD**  
**LT40HD**

**Rev. C7 - F4**  
**Rev. C7 - F4**

REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>LOADER KIT, HYDRAULIC LOG (LT30HD)</b>	LTHDLA-30H <sup>1</sup>	1	◆
	<b>LOADER KIT, HYDRAULIC LOG (LT40HD)</b>	LTHDLA <sup>1</sup>	1	◆
1	Arm, Hydraulic Log Loading (For Rev. C8 - F7 Only)	W11805	1	
	Arm, Hydraulic Log Loading (For Rev. C7 Only)	W09445		
2	Fitting, 3/16" Grease	P04107	2	
3	Chain, Hydraulic Log Loader Safety	A04376	1	
4	Channel, Hydraulic Log Loading Foot	W09444	2	
5	Fitting, 3/16" Grease	P04107	2	
	Cylinder, Hydraulic Log Loading Arm	A12899 <sup>2</sup>	2	◆
6	Cylinder, 8" X 3" Hydraulic (Monarch #TQ3008-Q0002)	P09128 <sup>2</sup>	1	◆
7	Fitting, C5205x4x4 Male Connector	P09143 <sup>3</sup>	2	
	Fitting Kit, 1/4NPT 4.0GPM Velocity Fuse	015832	1	
8	Fitting, 1/4NPT 4.0GPM Velocity Fuse	015750 <sup>4</sup>	2	◆
	Instruction Sheet, Velocity Fuse Replacement	015832-255	1	
9	Fitting, 0455x4x4 90° Swivel Elbow	P12199 <sup>5</sup>	1	
10	Pin, Loading Arm Mount	W09446	4	
11	Screw, 5/16-24 X 5/8" Self Tapping	F05015-15	8	
12	Pin, Loading Arm Cylinder Mount	S09251	2	
13	Washer, 1" SAE Flat	F05011-28	4	
14	Pin, 3/16" X 1 1/2" Cotter	F05012-23	4	
15	Fitting, C5705x5x4 Union 'T'	P09145	2	
16	Clamp, Hydraulic Hose	S09245	6	
17	Bolt, 5/16-18 X 3/4" Hex Head Grade 5	F05006-102 <sup>6</sup>	2	
18	Nut, 5/16-18 Hex Lock	F05010-6	2	
	Fitting, C3409x4 90° Elbow (Pump Valve; <a href="#">See Section 8.5 Hydraulic Control Box</a> )	P09139	1	
	Fitting, 90° Male Elbow (Pump Valve; <a href="#">See Section 8.5 Hydraulic Control Box</a> )	P09142	1	
	Hose Kit, Hydraulic Log Loader (LT30HD)	P10318	1	
	Hose Kit, Hydraulic Log Loader (LT40HD)	P09896	1	

<sup>1</sup> Available for Rev. F5 - F7 Only.

<sup>2</sup> Cylinder assembly A12899 and tie rod cylinder P09128 no longer available for service. Sell welded cylinder w/o fittings P12847 to insure compatibility of velocity fuses ([See Section 8.9 Hydraulic Log Loader](#)). Seal kit A12238 for tie-rod cylinder no longer available. Entire cylinder must be replaced.

<sup>3</sup> Replaces P03420 originally supplied until 6/92.

<sup>4</sup> Replaces 3.0GPM velocity fuse P11566 originally supplied.

<sup>5</sup> Replaces P09142 originally supplied until 6/92.

<sup>6</sup> Grade 5 Hex Head Bolt F05006-102 replaces self-tapping bolt F05006-30 to eliminate shearing of bolts head (4/08).



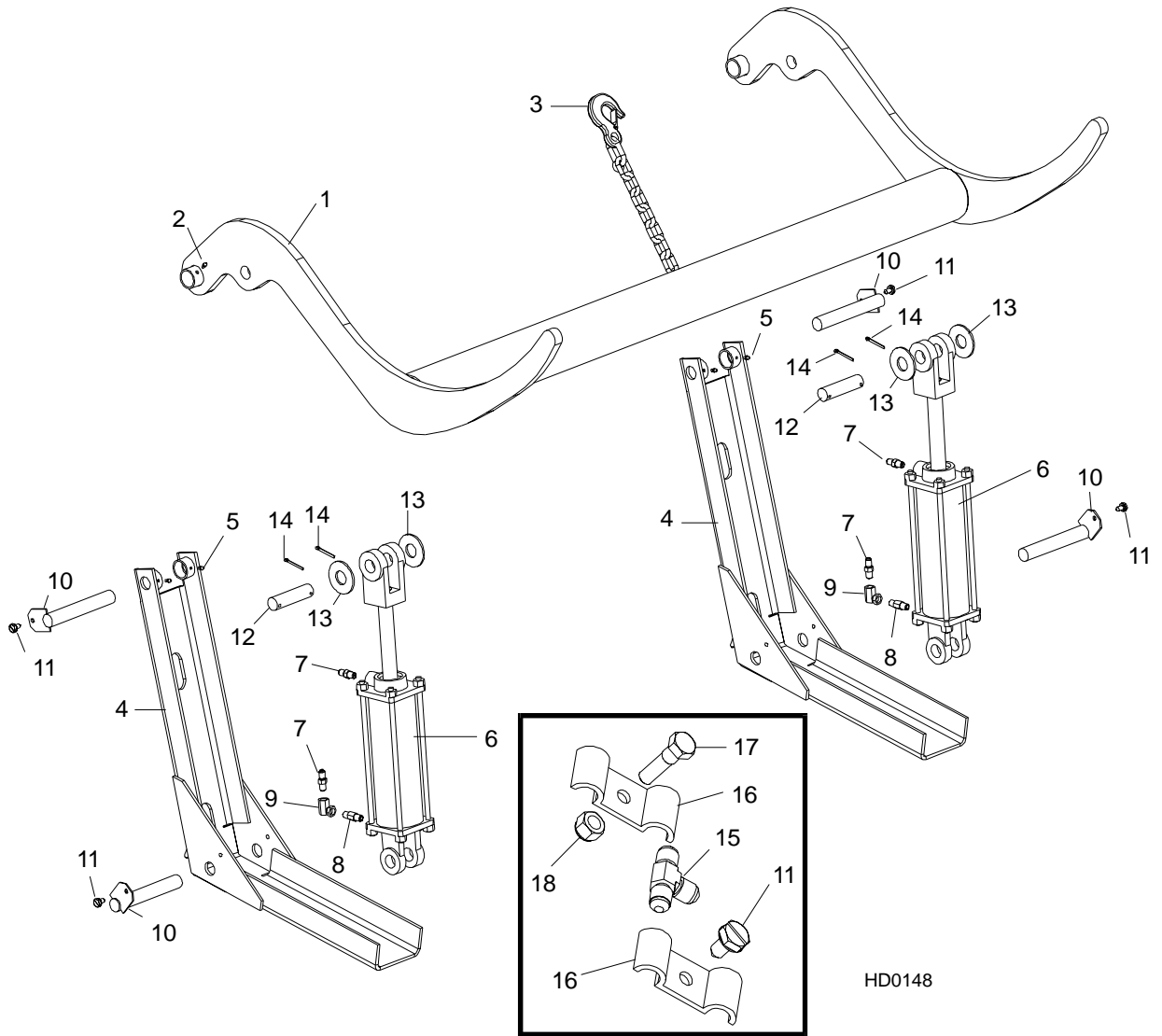


FIG. 8-10

<b>8.11 Hydraulic Log Turner</b>				
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>TURNER KIT, HYDRAULIC LOG (WITHOUT CYLINDER)</b>	K09686	1	
1	Arm, Hydraulic Log Turner Link	W09260	1	
	Arm Assembly, Hydraulic Log Turner	A09258	1	
2	Arm, Hydraulic Log Turner	015233 <sup>1</sup>	1	
3	Claw, Hydraulic Log Turner	014675 <sup>2</sup>	2	
4	Bolt, 1/2-13 X 1 1/2" Hex Head Grade 5	F05008-33	4	
5	Bolt, 1/2-13 X 4 1/2" Hex Head Grade 5	F05008-35	1	
6	Nut, 1/2-13 Hex Nylon Lock	F05010-8	5	
7	Pin, Log Turner Stop	S09211 <sup>3</sup>	1	
8	Spacer, Log Turner Stop Pin	S09913 <sup>3</sup>	2	
9	Collar, 5/8" I.D. With Set Screw	P05035 <sup>3</sup>	1	
10	Pin, Log Turner Mount	W09446	2	
11	Bolt, 5/16-18 X 1" Hex Head Grade 2	F05006-1	2	
12	Washer, 5/16 SAE Flat	F05011-17	2	
13	Nut, 5/16-18 Hex Lock	F05010-6	2	
14	Pin, Log Turner Pivot	S09247 <sup>4</sup>	1	
15	Washer, 1" SAE Flat	F05011-28	2	
16	Pin, 3/16" X 1 1/2" Cotter	F05012-23	2	
17	Spring, Hydraulic Log Turner	P09136	2	
18	Plate, Log Turner Cylinder Mount	S09155 <sup>5</sup>	1	
19	Plate, Log Turner Brace Mount	S09109	2	
	Brace Assembly, Hydraulic Log Turner	A09606	2	
20	Plate, Log Turner Mount	S09604	1	◆
21	Plate, Log Turner Brace	S09605	1	◆
22	Bolt, 1/2-13 X 1 1/2" Hex Head Grade 5	F05008-33	1	
23	Washer, 1/2" SAE Flat	F05011-2	1	
24	Nut, 1/2-13 Hex Nylon Lock	F05010-8	1	
	Paint, Orange Aerosol	P04498	1	
	<b>CYLINDER ASSEMBLY, HYDRAULIC LOG TURNER</b>	A09286	1	
25	Cylinder, 8" X 2 1/2" Hydraulic	P12846 <sup>6</sup>	1	◆
	Seal Kit, 8" x 2 1/2" Hydraulic Cylinder	P12955 <sup>7</sup>	1	
26	Fitting, 90° Male Elbow	P09142	2	

<sup>1</sup> Turner arm 015233 replaces W12340 originally supplied. Requires change in quantity of F05008-35 bolts and F05010-8 nuts from 5 to 2.

<sup>2</sup> Painted claw 014675 replace unpainted S09146.

<sup>3</sup> Parts not required if turner arm replaced after 5/97. New arm includes welded stop pin. S09913 replaces S09913-W (part number change only).

<sup>4</sup> Replaces S09247-W.

<sup>5</sup> Replaces S09116 originally supplied on Rev. C7 - E3.

<sup>6</sup> Welded cylinder P12846 replaces P09127 tie rod cylinder originally supplied before Rev. F5.

<sup>7</sup> Seal kit applicable only to welded cylinders supplied on Rev. F5 - F7. Seal kit A12239 for tie-rod cylinder no longer available. Entire cylinder must be replaced.

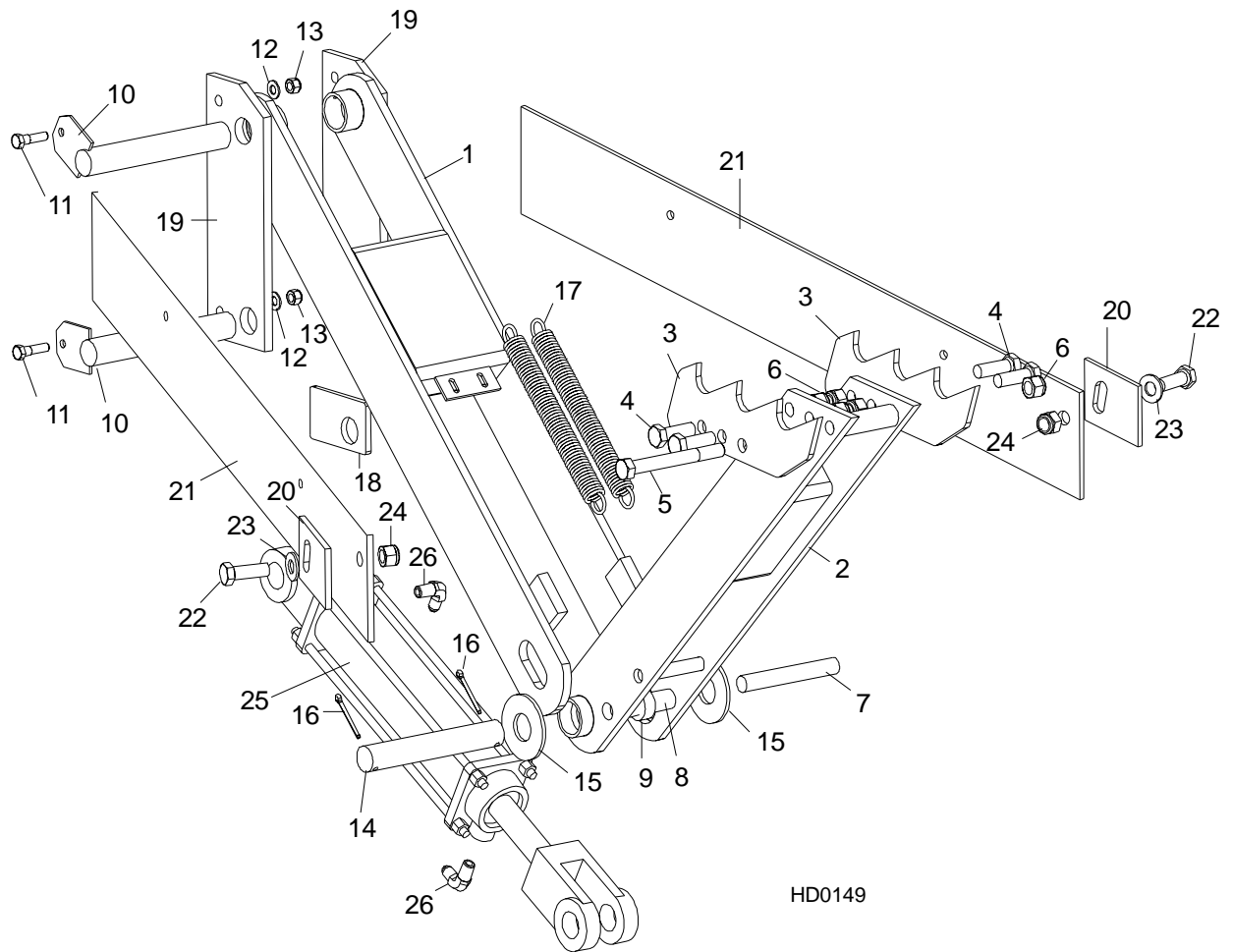


FIG. 8-11

<b>8.12 Hydraulic Log Side Supports</b>				
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
1	<b>SUPPORT, HYDRAULIC LOG SIDE</b>	W12339	2	
	<b>MOUNTING KIT, HYDRAULIC LOG SIDE SUPPORT</b>	K09344	2	
2	Pin, Log Side Support Pivot	W09238	1	
3	Plate, Log Side Support End	S09148	1	
4	Bolt, 1/2-13 X 3 1/2" Hex Head	F05008-15	2	
5	Washer, 1/2" SAE Flat	F05011-2	2	
6	Nut, 1/2-13 Hex Nylon Lock	F05010-8	3	
7	Bolt, 1/2-13 X 1 1/2" Hex Head Grade 5	F05008-33	1	
8	Washer, 1/2" I.D. X 1 1/2" O.D. X .1196"	S09225	1	
9	<b>FITTING, 3/16" GREASE</b>	P04107	4	
	<b>CYLINDER ASSEMBLY, HYDRAULIC LOG SIDE SUPPORT</b>	A09283	1	
10	Cylinder, 6" X 2" Hydraulic	P12845 <sup>1</sup>	1	
	Seal Kit, 6" x 2" Hydraulic Cylinder	P12954 <sup>2</sup>	1	
11	Fitting, 90° Male Elbow	P09142	1	
12	Fitting, C3529x4 90° Pipe	P09140	2	
13	Fitting, C3759x4 Male 'T'	P09141	2	
14	Fitting, C5205x4x4 Male Connector	P09143	3	
	Valve Assembly, Hydraulic Sequence	A09207	2	
15	Block, Sequence Valve	S09205-W	1	◆
16	Plug, 1/16" NPT Pipe	P09206	2	
17	Ball, 3/8" Steel	P09133	2	◆
18	Spring, Hydraulic Sequence Valve	P09135	1	◆
19	Spring, Hydraulic Sequence Valve (Heavy)	P11644	1	◆
20	Retainer, Valve Spring	S09204-W <sup>3</sup>	2	◆
21	<b>ROD, HYDRAULIC SIDE SUPPORT LINK</b>	S12744 <sup>4</sup>	1	
22	<b>END, 1/2" ROD</b>	P09137	2	
23	<b>BOLT, 1/2-13 X 2 1/4" HEX HEAD GRADE 5</b>	F05008-10	2	
24	<b>WASHER, 1/2" SAE FLAT</b>	F05011-2	4	
25	<b>NUT, 1/2-13 HEX NYLON LOCK</b>	F05010-8	2	
26	<b>NUT, 1/2-20 HEX JAM</b>	F05010-16	1	
27	<b>PIN, CYLINDER MOUNT</b>	S09251	2	
28	<b>WASHER, 1" SAE FLAT</b>	F05011-28	4	
29	<b>PIN, 3/16" X 1 1/2" COTTER</b>	F05012-23	4	

<sup>1</sup> Welded cylinder P12845 replaces P09125 tie rod cylinder originally supplied before Rev. F5.

<sup>2</sup> Seal kit applicable only to welded cylinders supplied on Rev. F5 - F7. Seal kit A12240 for tie-rod cylinder no longer available. Entire cylinder must be replaced.

<sup>3</sup> Removed from assembly 7/94. Fittings hold the springs in the assembly which is not field-serviceable.

<sup>4</sup> Rod Kit K09343 not available. Order individual items as required.

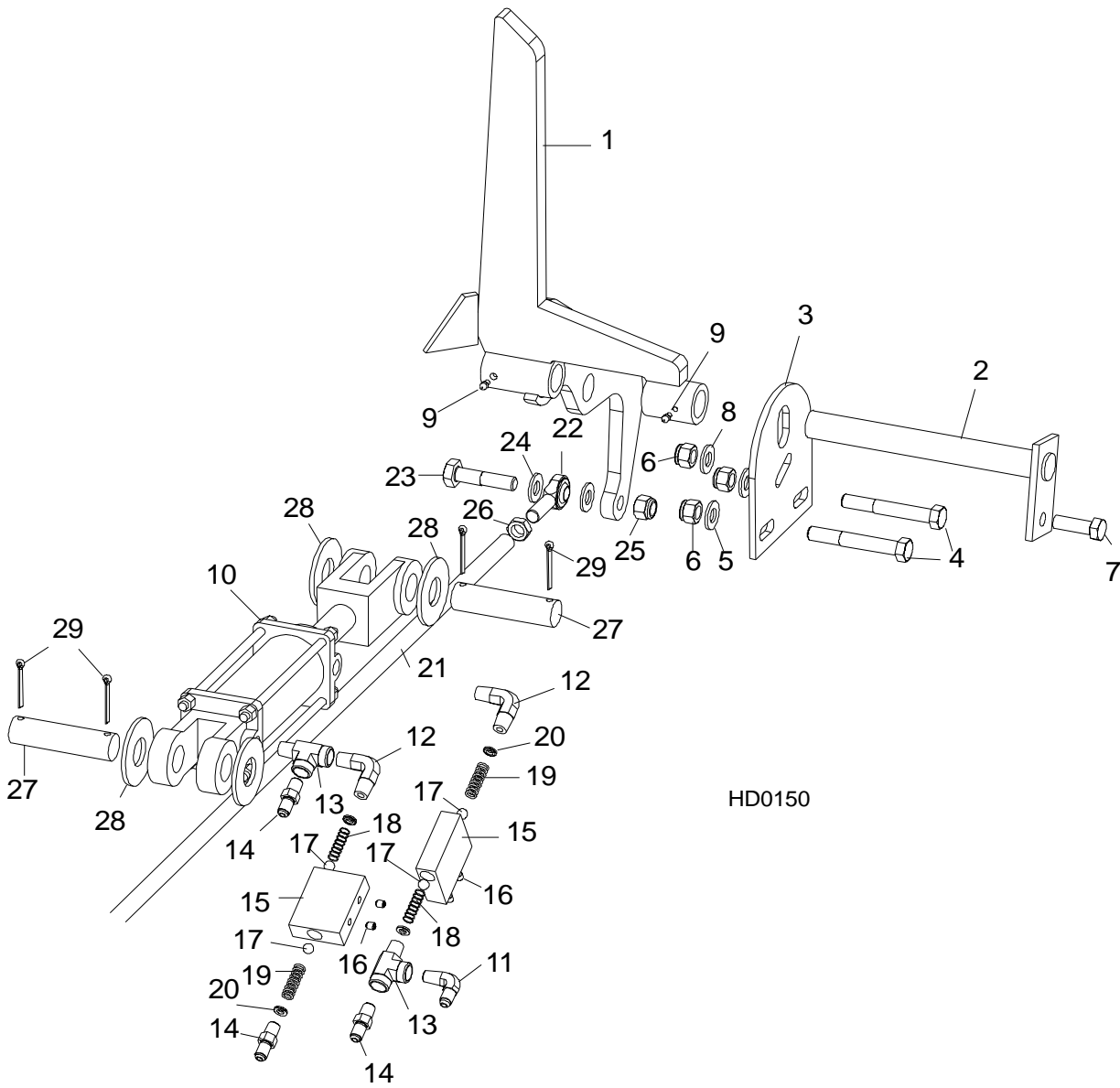


FIG. 8-12

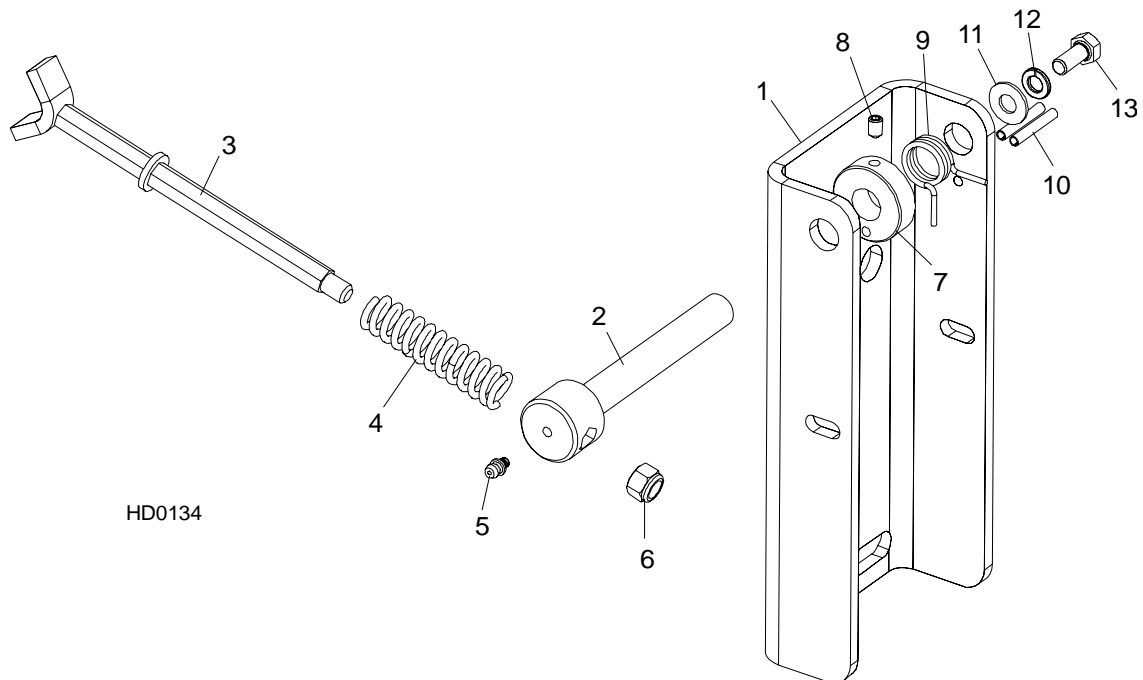
### 8.13 Hydraulic Log Clamp Activator

*LT30HD*  
*LT40HD*

*Retrofit*  
*Retrofit*

REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.
	<b>PLATE ASSEMBLY, HYDRAULIC CLAMP END</b>	014614 <sup>1</sup>	1
1	Plate, Hydraulic Clamp End	S09660	1
2	Arm Pivot, Clamp Activator	014615	1
3	Arm, Clamp Activator	014613	1
4	Spring, Clamp Activator Compression	014617	1
5	Fitting, 3/16" Grease	P04107	1
6	Nut, 3/8-16 Hex Nylon Lock	F05010-10	1
7	Collar, Clamp Activator Arm	014616	1
8	Screw, 1/4-20 x 3/8" Socket Head Cup Point Set	F05005-47	1
9	Spring, Clamp Activator Torsion	014618	1
10	Pin, 3/16" x 1 1/4" Roll	F05012-16	2
11	Washer, 3/8" SAE Flat	F05011-3	1
12	Washer, 5/16" Split Lock	F05011-13	1
13	Bolt, 5/16-18 x 3/4" Hex Head	F05006-5	1

<sup>1</sup> Replaces A09640 originally supplied. Spring-loaded activator provides more consistent clamp operation.



HD0134

**FIG. 8-13**

## 8.14 Hydraulic Log Clamp

*LT30HD*  
*LT40HD*

*Rev. C8 - F7*  
*Rev. C8 - F7*

REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>CLAMP KIT, 30" HYDRAULIC LOG</b>	K09465	1	
	Clamp Assembly, 30" Hydraulic Log	A11792	1	◆
1	Tube, 30" Hydraulic Log Clamp	W11802	1	
2	Arm, 30" Hydraulic Log Clamp (Front)	W11793	1	
3	Fitting, 3/16" Straight Grease	P04107	1	
4	Arm, 30" Hydraulic Log Clamp (Rear)	W11795	1	
	Fitting, 3/16" Straight Grease	P04107	1	
5	Arm, 30" Hydraulic Log Clamp Link	W11799	1	
6	Fitting, 3/16" Straight Grease	P04107	2	
7	Plate, Clamp Slide Pad Mount	W09422	1	
	Box/plate Assembly, Hydraulic Clamp	A09635	1	
8	Box Weldment, Hydraulic Clamp	W12069 <sup>1</sup>	1	◆
9	Plate Weldment, Hydraulic Clamp	W12752 <sup>2</sup>	1	
10	Pin Weldment, Hydraulic Clamp Plate Pivot	W09639	1	
11	Arm, Clamp Prop	W09638	1	
12	Plate, Clamp Prop Arm End	S09649	1	
13	Spacer, Clamp Prop Arm	S09657	1	
14	Bolt, 1/4-20 X 1 1/2" Hex Head Grade 2	F05005-5	1	
15	Bolt, 1/4-20 X 1" Hex Head Grade 2	F05005-38	1	
16	Nut, 1/4-20 Hex Self-Locking	F05010-9	4	
17	Spring, .36 O.D. X 2.5" Extension	P11817	2	
18	Nut, 1/4-20 Hex Lock	F05010-21	2	
19	Screw, 3/8-16 X 1/2" Socket Head	F05007-50	2	
20	Washer, 5/8" SAE Flat	F05011-5	2	
21	Bushing, 5/8" I.D. Bronze	P05135	2	
22	Screw, 1/4-20 X 3/4" Socket Head	F05005-26	1	
23	Fitting, 3/16" Straight Grease	P04107	1	
24	Pad, Clamp Box Plastic Slide	S09219	2	
25	Button, Bronze	S09167	4	
26	Screw, 1/2-13 X 1 1/2" Flat Point Set	F05008-31	3	
27	Nut, 1/2-13 Hex Jam	F05010-31	3	
	Plate Assembly, Hydraulic Clamp End	A09640 <sup>3</sup>	1	◆
28	Plate, Hydraulic Clamp End	S09660	1	
	Clamp Kit, Y-Activator	K12872	1	
29	Arm Pivot, Clamp Activator	W09642	1	
30	Arm, Clamp Activator	W09641-N	1	
31	Spring, .5 X 3.75 X .08 Extension Modified	S09661 <sup>4</sup>	1	
32	Spring, Clamp Die Compression	P09663	1	

## 8

## Hydraulic System

## Hydraulic Log Clamp

33	Bolt, 5/16-18 X 1 1/2" Hex Head Full Thread	F05006-2	1	
34	Nut, 5/16-18 Hex Self-retaining	F05010-20	2	
35	Bolt, 3/8-16 X 3 1/2" Square Head Grade 5	F05007-38	1	
36	Nut, 3/8-16 Hex	F05010-1	1	
37	Collar, 5/8" I.D.	P05035	2	
38	Nut, 5/8-11 Hex Nylon Lock	F05010-34	2	
39	Bearing, Hydraulic Clamp Bronze	P09464	2	
40	Bolt, 1/2-13 X 6 1/2" Hex Head	F05008-6	1	
41	Spacer, Clamp	S09493	1	
42	Nut, 1/2-13 Hex Nylon Lock	F05010-8	1	
	Cylinder Assembly, Hydraulic Log Clamp	A09285	1	
43	Cylinder, 8" X 3" Hydraulic	P12847 <sup>5</sup>	1	◆
	Seal Kit, 8" x 3" Hydraulic Cylinder	P12956 <sup>6</sup>	1	
44	Fitting, 90° Male Elbow	P09142	2	
45	Pin, Clamp Cylinder Mount	S09246 <sup>7</sup>	2	
46	Pin, Clamp Pivot	S09247 <sup>8</sup>	1	
47	Washer, 1" SAE Flat	F05011-28	6	
48	Pin, 3/16" X 1 1/2" Cotter	F05012-23	6	
49	Bolt, 3/8-16 X 5" Hex Head Grade 2	F05007-5	2	
50	Washer, 3/8" SAE Flat	F05011-3	2	
51	Nut, 3/8-16 Hex Nylon Lock	F05010-10	2	
52	Bolt, 3/8-16 X 4 1/2" Hex Head Grade 2	F05007-35	2	
53	Bolt, 1/2-13 X 1 1/2" Hex Head Grade 5	F05008-33	2	
54	Washer, 1/2" SAE Flat	F05011-2	2	
55	Nut, 1/2-13 Hex Lock	F05010-3	2	
	Clamp Extension Assembly	A12208 <sup>9</sup>	1	
56	Clamp Extension, 3" Hydraulic	W09922	1	◆
57	Pin, 5/16" X 1" Retaining	F05012-45	1	
	<b>CLAMP STOP KIT, HYDRAULIC LOG</b>	K09485	1	
58	Plate, Clamp Stop	W09404	1	
59	Bolt, 1/2-13 X 1 1/2" Hex Head Grade 5	F05008-33	2	
60	Washer, 1/2" SAE Flat	F05011-2	2	
61	Nut, 1/2-13 Hex Nylon Lock	F05010-8	2	
62	<b>BRACKET, LOG CLAMP SUPPORT</b>	S11810 <sup>10</sup>	1	

<sup>1</sup> Replaces W09636 originally supplied on Rev. C7 - D3.

<sup>2</sup> Replaces W09637 originally supplied on Rev. C7 - D3. Use W12752 painted clamp plate to replace W12068 unpainted clamp plate.

<sup>3</sup> Use 014614 to replace original activator assembly A09640 ([See Section 8.13](#)).

<sup>4</sup> Service part only. Modified P08538 spring.

<sup>5</sup> Welded cylinder P12847 replaces P09128 tie rod cylinder originally supplied before Rev. F5.

<sup>6</sup> Seal kit applicable only to welded cylinders supplied on Rev. F5 - F7. Seal kit A12238 for tie-rod cylinder no longer available. Entire cylinder must be replaced.

<sup>7</sup> Replaces S09246-W. Pins on LT30HD Rev. C8033 - D6101 and LT40HD Rev. C8343 - D6595 should be replaced with upgraded pin (marked with white paint). Improved pin material will prevent pin from breaking when clamp is forced beyond its operating limits.

<sup>8</sup> Replaces S09247-W.

<sup>9</sup> Replaces W09922 on Rev. C7 - D4. Retaining pin added for more convenient storage of clamp when not in use.



<sup>10</sup> S11810 required if retrofitting Rev. C7 with 30" clamp.

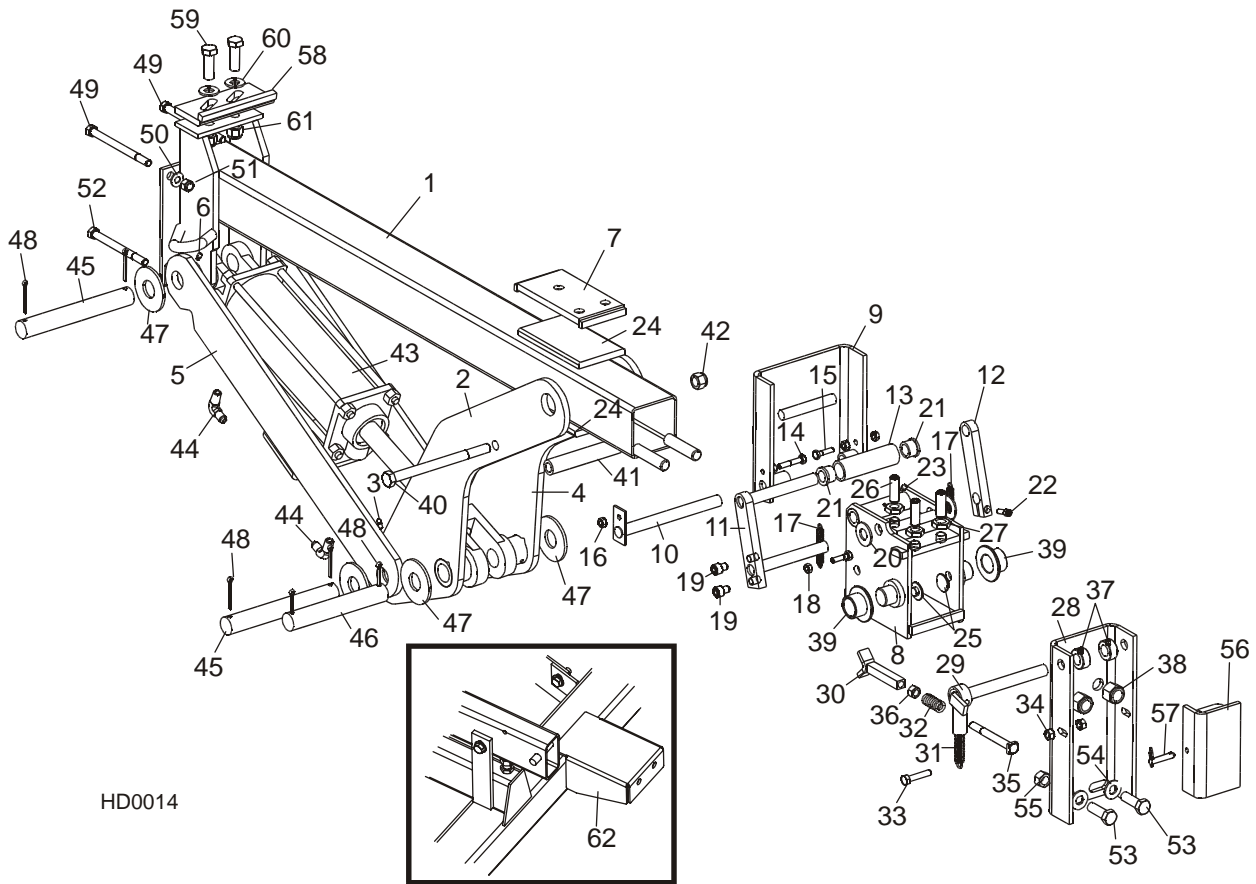


FIG. 8-14



8.15 Hydraulic Log Clamp				
<i>LT30HD</i>		<i>Rev. C7</i>		
<i>LT40HD</i>		<i>Rev. C7</i>		
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>CLAMP KIT, 24" HYDRAULIC LOG</b>	K09465 <sup>1</sup>	1	◆
	Clamp Assembly, 24" Hydraulic Log	A09287	1	
1	Tube, 24" Hydraulic Log Clamp	W09263	1	◆
2	Arm, 24" Hydraulic Log Clamp (Front)	W09269	1	
3	Fitting, 3/16" Straight Grease	P04107	1	
4	Arm, 24" Hydraulic Log Clamp (Rear)	W09271	1	
	Fitting, 3/16" Straight Grease	P04107	1	
5	Arm, 24" Hydraulic Log Clamp Link	W09273	1	
6	Fitting, 3/16" Straight Grease	P04107	2	
7	Plate, Clamp Slide Pad Mount	W09422	1	
	Box/Plate Assembly, Hydraulic Clamp	A09635	1	
8	Box Weldment, Hydraulic Clamp	W12069 <sup>2</sup>	1	◆
9	Plate Weldment, Hydraulic Clamp	W12752 <sup>3</sup>	1	◆
10	Pin Weldment, Hydraulic Clamp Plate Pivot	W09639	1	
11	Arm, Clamp Prop	W09638	1	
12	Plate, Clamp Prop Arm End	S09649	1	
13	Spacer, Clamp Prop Arm	S09657	1	
14	Bolt, 1/4-20 X 1 1/2" Hex Head Grade 2	F05005-5	1	
15	Bolt, 1/4-20 X 1" Hex Head Grade 2	F05005-38	1	
16	Nut, 1/4-20 Hex Self-Locking	F05010-9	4	
17	Spring, .36 O.D. X 2.5" Extension	P11817 <sup>4</sup>	2	
18	Nut, 1/4-20 Hex Lock	F05010-21	2	
19	Screw, 3/8-16 X 1/2" Socket Head	F05007-50	2	
20	Washer, 5/8" SAE Flat	F05011-5	2	
21	Bushing, 5/8" I.D. Bronze	P05135	2	
22	Screw, 1/4-20 X 3/4" Socket Head	F05005-26	1	
23	Fitting, 3/16" Straight Grease	P04107	1	
24	Pad, Clamp Box Plastic Slide	S09219	2	
25	Button, Bronze	S09167	4	
26	Screw, 1/2-13 X 1 1/2" Flat Point Set	F05008-31	3	
27	Nut, 1/2-13 Hex Jam	F05010-31	3	
	Plate Assembly, Hydraulic Clamp End	A09640 <sup>5</sup>	1	◆
28	Plate, Hydraulic Clamp End	S09660	1	
	Clamp Kit, Y-Activator	K12872	1	
29	Arm Pivot, Clamp Activator	W09642	1	
30	Arm, Clamp Activator	W09641-N	1	
31	Spring, .5 X 3.75 X .08 Extension Modified	S09661 <sup>6</sup>	1	
32	Spring, Clamp Die Compression	P09663	1	

## 8

**Hydraulic System***Hydraulic Log Clamp*

33	Bolt, 5/16-18 X 1 1/2" Hex Head Full Thread	F05006-2	1	
34	Nut, 5/16-18 Hex Self-Locking	F05010-20	2	
35	Bolt, 3/8-16 X 3 1/2" Square Head Grade 5	F05007-38	1	
36	Nut, 3/8-16 Hex	F05010-1	1	
37	Collar, 5/8" I.D.	P05035	2	
38	Nut, 5/8-11 Hex Nylon Lock	F05010-34	2	
39	Bearing, Hydraulic Clamp Bronze	P09464	2	
40	Bolt, 1/2-13 X 6 1/2" Hex Head	F05008-6	1	
41	Spacer, Clamp	S09493	1	
42	Nut, 1/2-13 Hex Nylon Lock	F05010-8	1	
	Cylinder Assembly, Hydraulic Log Clamp	A09285	1	
43	Cylinder, 8" X 3" Hydraulic	P12847 <sup>7</sup>	1	◆
	Seal Kit, 8" x 3" Hydraulic Cylinder	P12956 <sup>8</sup>	1	
44	Fitting, 90° Male Elbow	P09142	2	
45	Pin, Clamp Cylinder Mount	S09246 <sup>9</sup>	2	
46	Pin, Clamp Pivot	S09247 <sup>10</sup>	1	
47	Washer, 1" SAE Flat	F05011-28	6	
48	Pin, 3/16" X 1 1/2" Cotter	F05012-23	6	
49	Bolt, 3/8-16 X 5" Hex Head Grade 2	F05007-5	2	
50	Washer, 3/8" SAE Flat	F05011-3	2	
51	Nut, 3/8-16 Hex Nylon Lock	F05010-10	2	
52	Bolt, 3/8-16 X 4 1/2" Hex Head Grade 2	F05007-35	2	
53	Bolt, 1/2-13 X 5 1/2" Hex Head Grade 5	F05008-28	2	
54	Washer, 1/2" SAE Flat	F05011-2	2	
55	Nut, 1/2-13 Hex Lock	F05010-3	2	
	Clamp Extension Assembly	A12208 <sup>11</sup>	1	
56	Clamp Extension, 3" Hydraulic	W09922	1	◆
57	Pin, 5/16" X 1" Retaining	F05012-45	1	
58	<b>PLATE, CLAMP STOP</b>	W09404	1	
59	<b>BOLT, 1/2-13 X 1 1/2" HEX HEAD GRADE 5</b>	F05008-33	2	
60	<b>WASHER, 1/2" SAE FLAT</b>	F05011-2	2	
61	<b>NUT, 1/2-13 HEX NYLON LOCK</b>	F05010-8	2	

<sup>1</sup> 24" Clamp assembly replaced by 30" assembly on Rev. C8 - F7. Also requires support bracket S11810. [See Section 8.14 Hydraulic Log Clamp.](#)

<sup>2</sup> Replaces W09636 originally supplied on Rev. C7.

<sup>3</sup> Replaces W09637 originally supplied on Rev. C7. Use W12752 painted clamp plate to replace W12068 unpainted clamp plate.

<sup>4</sup> Replaces P08539 originally supplied on Rev. C7.

<sup>5</sup> Use 014614 to replace original activator assembly A09640 ([See Section 8.13](#)).

<sup>6</sup> Service part only. Modified P08538 spring.

<sup>7</sup> Welded cylinder P12847 replaces P09128 tie rod cylinder originally supplied before Rev. F5.

<sup>8</sup> Seal kit applicable only to welded cylinders supplied on Rev. F5 - F7. Seal kit A12238 for tie-rod cylinder no longer available. Entire cylinder must be replaced.

<sup>9</sup> Replaces S09246-W.

<sup>10</sup> Replaces S09247-W.

<sup>11</sup> Replaces W09922 on Rev. C7 - D4. Retaining pin added for more convenient storage of clamp when not in use.

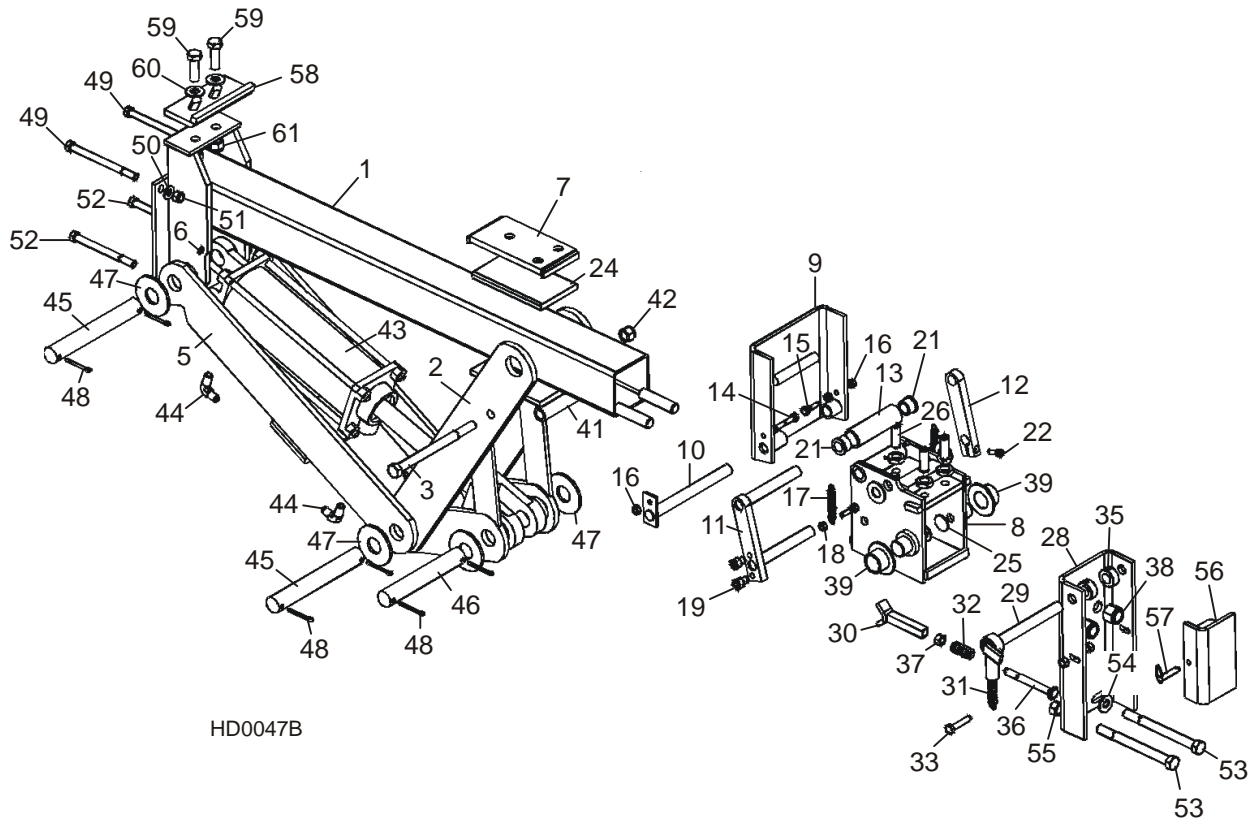


FIG. 8-15

<b>8.16 Hydraulic Toe Board (Roller-Style)</b>				
<i>LT30HD</i>		<i>Retrofit</i>		
<i>LT40HD</i>		<i>Retrofit</i>		
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>TOE BOARD ASSEMBLY, HYDRAULIC</b>	014440 <sup>1</sup>	1	
1	Bed Rail, Adjustable Long	S09102	2	◆
	Bolt, Assembly, Bed Rail	A09775	2	◆
	Nut, 5/8-11 Hex	F05010-54	1	
	Bolt, Bed Rail Adjustment	S13006	1	
2	Toe Board Weldment	W13025	2	
3	Pin, 1/2-1 3/4 Clevis	F05012-82 <sup>2</sup>	4	
4	Pin, 1/8" x 3/4" Cotter	F05012-3 <sup>3</sup>	4	
5	Washer, 1/2" SAE Flat	F05011-2	8	
6	Mount, Toe Board Cylinder	S13022	2	
7	Bracket, Toe Board Cylinder Mount	S13023	2	
	Bolt, 5/6-18 x 1 1/2" Hex Head Full Thread	F05009-19	4	
	Washer, 5/8" Split Lock	F05011-27	4	
8	Cylinder, Toe Board	014426	2	
	Muffler, 1/4" NPT Air	P20904	2	
	Fitting, 90° Elbow Male	P09142	2	
9	Spring, Toe Board Retrofit	014428	4	
10	Pin, Clevis Toe Board	014427	4	
11	Washer, 1" ID SAE Flat	F05011-28	2	
12	Nut, 3/4-10 Self-Locking	F05010-80	4	
13	Washer, 3/4" Flat	F05011-29	4	
	Hose Assembly, 1/4" x 9" Hydraulic	014437	2	◆
	Hose, 1/4" ID	R02130	.75 ft.	
	Fitting, 1/4" Hydraulic Compr.	P09132	2	◆
	Fitting, 1/4" JIC Coupling	016539 <sup>4</sup>	2	
	<b>WRENCH, BED RAIL ADJUSTMENT (NOT SHOWN)</b>	015970	1	

<sup>1</sup> Optional retrofit upgrades mill to roller-style toe boards. Available 4/96.

<sup>2</sup> Clevis pin replaces F05008-25 bolt (8/96). Use of clevis pin also requires cotter pin F05012-3.

<sup>3</sup> Cotter pin replaces F05010-8 nut (8/96). Use of cotter pin also requires clevis pin F05012-82.

<sup>4</sup> Replaces 014436 (duplicate part numbers).

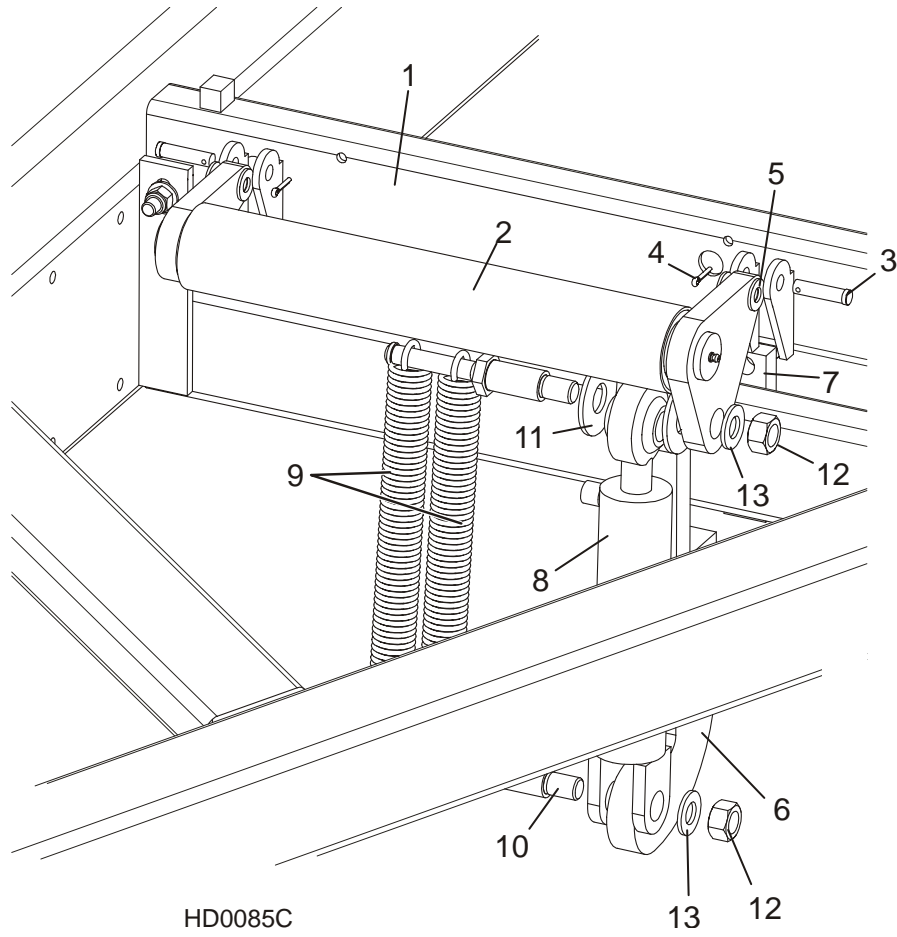


FIG. 8-16

## 8

**Hydraulic System***Hydraulic Toe Board***8.17 Hydraulic Toe Board**

REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>TOE BOARD ASSEMBLY, HYDRAULIC</b>	A09665	2	
1	Housing, Hydraulic Toe Board	W09666	1	
2	Piston, Hydraulic Toe Board	W09667	1	
3	Seal, Hydraulic Toe Board	P09740	1	
4	Tube, Hydraulic Toe Board Guide	W10027	2	
5	Spring, Hydraulic Toe Board	P09742	2	
6	Washer, 1/2" SAE Flat	F05011-2	2	
7	Nut, 1/2-13 Hex Nylon Lock	F05010-8	2	
8	Fitting, 90° Male Elbow	P09142	1	
9	Bolt, 1/2-13 X 3" Hex Head Full Thread	F05008-7	2	
10	<b>WASHER, 1/2" SAE FLAT</b>	F05011-2	4	
11	<b>NUT, 1/2-13 HEX NYLON LOCK</b>	F05010-8	4	



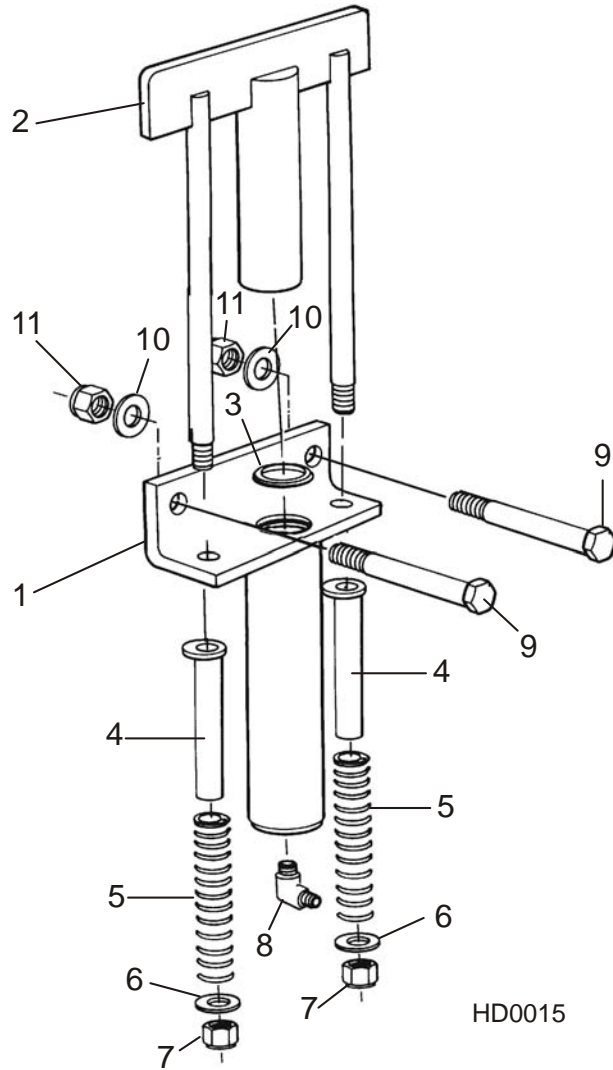


FIG. 8-17

# INDEX

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## B

battery box 4-6, 4-10, 4-14

bed rails

front/rear 7-1

middle 7-2

pivot 7-3

blade guide

drive side 2-3

idle side 2-1

throat screw 2-27

blade guide arm 2-13, 2-15

blade tensioner 2-11

blade wheel

drive side 2-5

idle side 2-7, 2-9

---

## C

clutch/brake lever 2-17, 2-19, 2-21

control box 4-1, 4-3

covers 3-3

---

## D

decals 3-1

---

## H

hydraulic

control box 8-4, 8-8, 8-11

hoses 8-1, 8-2

log loader 8-19, 8-21

log turner 8-23

power strip 8-15, 8-17

pump replacement parts 8-13

side support 8-25

toe board 8-35, 8-37

---

## L

legs

stationary 7-5

---

## P

parts list

how to use 1-1

power feed 6-3

---

## S

scale

blade height 5-3, 5-5

side supports 7-4

sight gauge 5-1

---

## T

track rollers

lower 6-5, 6-6

upper 6-1

---

## U

up/down 5-7, 5-9  
v-brace mount 5-1

---

## W

water lube  
bottle/tray assembly 2-23