

# **Simple Set**

## **Safety, Operation, Maintenance & Parts Manual**

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**SSW, SSW-R, SSW-LX150 rev. A.00 - A.04**

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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.

*February 2010*

*Form #1611*

**California**  
Proposition 65 Warning



**WARNING:** Breathing gas/diesel engine exhaust exposes you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Always start and operate the engine in a well-ventilated area.  
If in an enclosed area, vent the exhaust to the outside.  
Do not modify or tamper with the exhaust system.  
Do not idle the engine except as necessary.

For more information go to **[www.P65warnings.ca.gov](http://www.P65warnings.ca.gov)**.



**WARNING:** Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection.

For more information go to **[www.P65Warnings.ca.gov/wood](http://www.P65Warnings.ca.gov/wood)**.

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## SECTION 1 SETUP & OPERATION

### 1.1 Initial Setup

When you turn the sawmill control key switch to the ON (#1) position Simple Set will start up in manual mode. As the control powers up, the software revision is displayed.

See Figure 1-1.

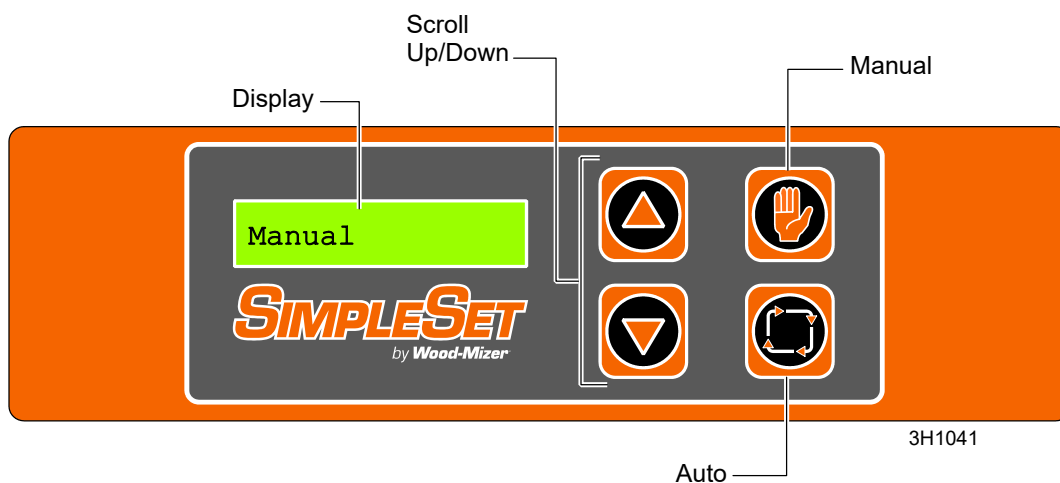




FIG. 1-1

In manual mode, press the Up  arrow to enter the setup menus.

**Set Speed:** Available values are 1 - 5.



The default value is 5. Lowering the Set Speed will assist in achieving the desired blade height setting in situations where the up/down chains or mast pads are too loose.


**Up**  and **Down**  buttons: Scroll to the desired Set Speed setting.


**Auto**  button: Scrolls to the Units menu

**Manual**  button: Exits setup.


**Units:** Simple Set can display units in inches (default) or millimeters.

**Up**  and **Down**  buttons: Scroll to the desired Units setting.

**Auto**  button: Scrolls to the Language menu


**Manual**  button: Exits setup.


**Language:** To date, the only available language is English.





**Auto**  button: Scrolls back to the Set Speed menu

**Manual**  button: Exits setup.

## 1.2 Operation

 **Manual:** With Simple Set in manual mode, operate the sawmill up/down system as normal with the sawmill control drum switch. The display will show a 'D' when the drum switch is pushed down and a 'U' when pushed up.

 **Auto:** With Simple Set in auto mode, the saw head will move down the increment displayed when the sawmill control drum switch is activated in the down position. The saw head will move up as normal when the drum switch is activated in the up position. Two sets of values can be stored in the control.

- Two sets of values can be stored in the control. Push the Auto  button to toggle between Set1 and Set2.
- Use the Up  and Down  buttons to adjust the value in 1/16" (or 1mm) increments in Set1 or Set2.
- Bump the up/down switch down to move the blade to the next increment. Holding the switch up or down will bypass Simple Set and move the saw head until the up/down switch is released.
- If the saw head is raised before the next cut, bumping the up/down switch down will return the saw head to the original position plus the increment value.
- Push the Manual  button to exit auto mode.

Turn the sawmill control key switch to the OFF (#0) position to power off Simple Set.

## 1.3 Troubleshooting

### 1.3.1 Error Messages

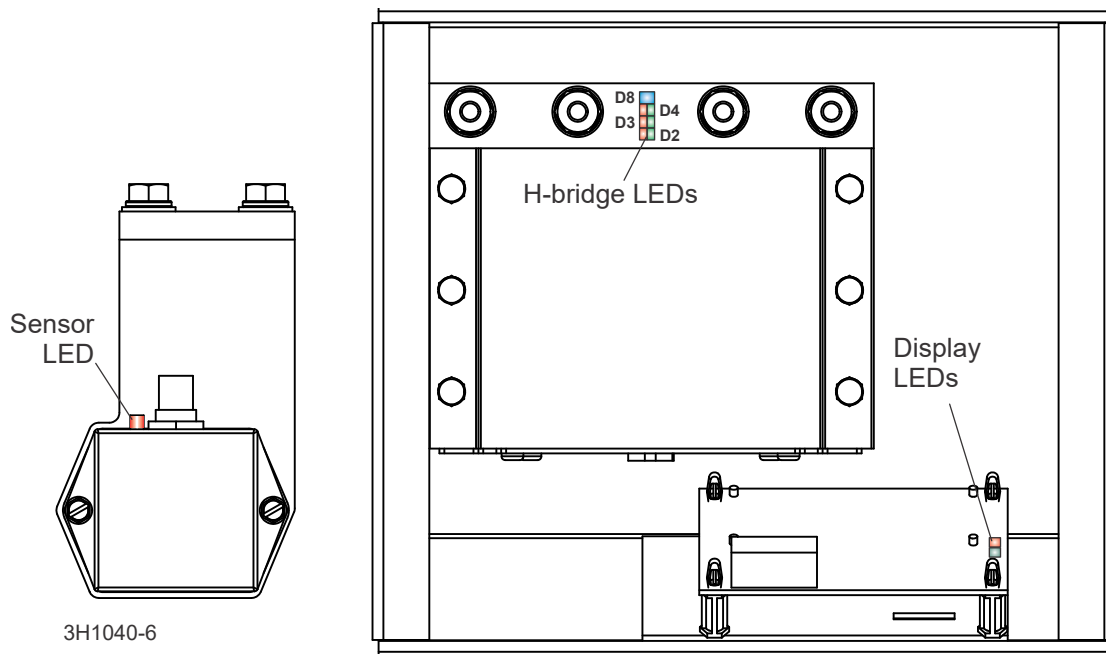
See Table 1-1. Simple Set error messages.

Error	Description
E02 Sensor	This message is displayed if Simple Set cannot detect the encoder sensor magnet when entering auto mode. Check that the gear box extension is aligned with the sensor. Push any button on the Simple Set control to exit to manual mode.
E03 Sensor	This message is displayed if Simple Set cannot detect a signal from the encoder sensor when entering auto mode. Check the encoder sensor cable connections. push any button on the Simple Set control to exit to manual mode.

### 1.3.2 Diagnostic Lights (After Mid-2016)

LED indicator lights are provided on the encoder sensor housing, the display circuit board, and H-bridge module inside the Simple Set control box. Observe the LED lights during operation to identify problems with the sensor, drum switches, or Simple Set control.

See Figure 1-2.



**FIG. 1-2**

### **NORMAL OPERATION:**

- As the up/down gearbox shaft spins to move the saw head up or down, the sensor LED will illuminate and brighten.  
After each complete revolution of the shaft, the LED will turn off, then illuminate and brighten.

### **MANUAL MODE**

- In manual mode, the control board LED and the H-bridge D2, D3, D4 LEDs will illuminate (red) when the drum switch is activated in the down direction and (green) when the up/down drum switch is activated in the up direction.  
The LEDs will turn off when the drum switch is released.  
The H-bridge D8 LED will illuminate blue to indicate the 5 Volt DC output to the control board.

### **AUTO MODE**

- In auto mode, the control box LED and the H-bridge D2, D3, D4 LEDs will illuminate (green) in the up direction as in manual mode.  
When the drum switch is bumped in the down direction, the control box LED and the H-bridge D2, D3, D4 LED's will illuminate (red) in the down direction but the control board LED will immediately turn off.  
When the blade reaches the increment value set by the Simple Set control, the D2, D3, D4 LEDs on the H-bridge will turn off.  
If the drum switch is held down or the saw head coasts past the increment, the H-bridge D2, D3, D4 LEDs will illuminate (green) indicating the blade will move up to return to the increment value.  
When the blade reaches the increment value, the H-bridge D2, D3, D4 LEDs will turn off.

#### ***1.3.3 Diagnostic Lights (Prior to Mid-2016)***

LED indicator lights are provided on the encoder sensor housing, the display circuit board, and H-bridge module inside the Simple Set control box. Observing the LED lights during operation can help identify problems with the sensor, drum switches or Simple Set control

See Figure 1-3. .

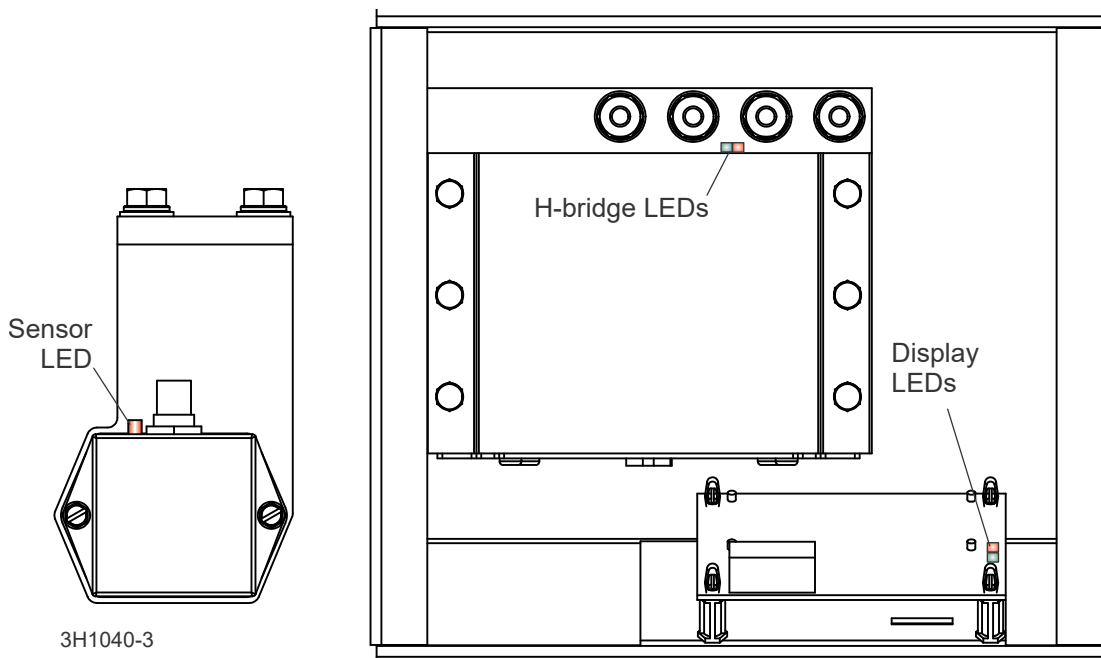


FIG. 1-3





During normal operation:

- As the up/down gearbox shaft spins to move the saw head up or down, the sensor LED will illuminate and brighten. After each complete revolution of the shaft, the LED will turn off then illuminate and brighten.
- In manual mode, both control box LEDs will illuminate red when the drum switch is activated in the down direction and green when the up/down drum switch is activated in the up direction. Both LEDs will turn off when the drum switch is released.
- In auto mode, both control box LEDs operate the same (green) in the up direction as in manual mode. When the drum switch is bumped in the down direction, both LEDs will illuminate red and then the display LED will immediately turn off. When the blade reaches the increment value set by the Simple Set control, the LED on the H-bridge will turn off. If the drum switch is held down or the saw head coasts past the increment, the H-bridge LED will illuminate green indicating the blade will move up to return to the increment value. When the blade reaches the increment value, the H-bridge LED will turn off.

### 1.3.4 Simple Set Up/Down Gear Settings Adjustment

1. Make sure the power to the control box is on.



2. Press and hold the Manual  button and then press and hold the UP  button
3. Release the Manual  button, then release the UP  button

The Simple Set control panel will display the Speed setting.

See Figure 1-4.

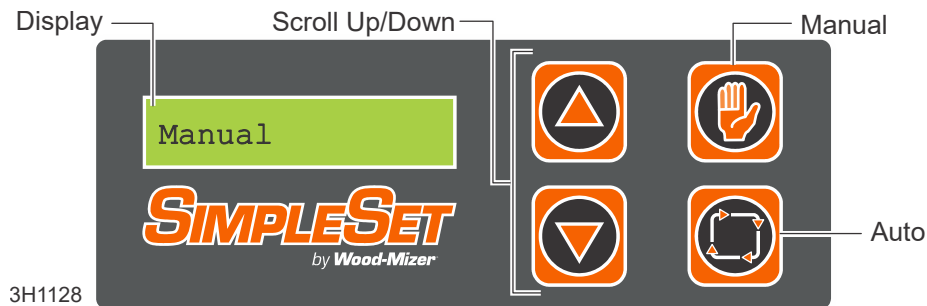





FIG. 1-4




4. Press the Auto  button several times until "Gear: 0.xxxx" appears.
5. Use the Up  /Down  buttons to set the value of the Gear Setting as shown in the table below.

Models	Revision	Gear Setting	InvGear Setting
LT40 (Default)	All	0.0938 (Default)	No (Default)
LT35/LT35HD	Any revision (upgraded with Up/Down Kit 074029)	0.1170	Yes
LT35/LT35HD	A1.00 - A1.02	0.2250	Yes
LT35/LT35HD	A2.00 - A2.01	0.3492	Yes
LT35/LT35HD	A3.00 - A4.01	0.1170	Yes
LT35/LT35HD	A5.00+ (or any revision upgraded with Up/Down Kit 074316)	0.1170	No
LX150/250	A1.00+	0.1350	Yes





6. Press the Auto  button to display "InvGear: xx".

# 1 Setup & Operation

## Troubleshooting

7. Use the Up  /Down  buttons to set the InvGear setting to the required value as shown in the table above.
8. Press the Manual  button to return to the main menu.

### 1.3.5 Simple Set PID Settings

1. Make sure the power to the control box is on.
2. Press and hold the Manual  button and then press and hold the UP  button.
3. Release the Manual  button, then release the UP  button.

The Simple Set control panel will display the Speed setting.

See Figure 1-6.

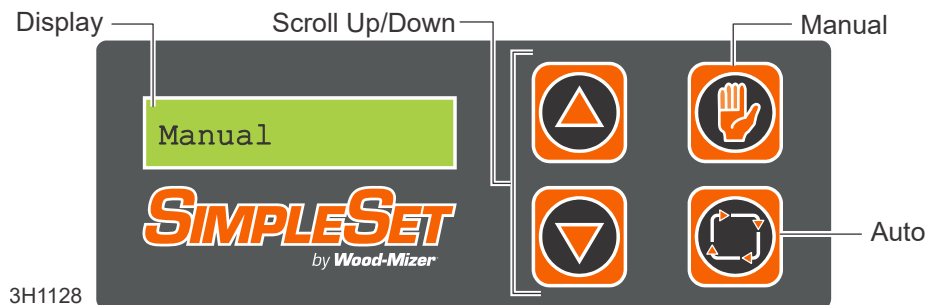





FIG. 1-6

4. Press the Auto  button several times until PGain, DGain and IGain settings appear.
5. Use the Up  /Down  buttons to set the settings to the required values.



**IMPORTANT!** The PID settings are factory-set and they should not be changed. If necessary, set the PID settings to the following values: PGain 1.0, DGain 0.0 and IGain 0.0.

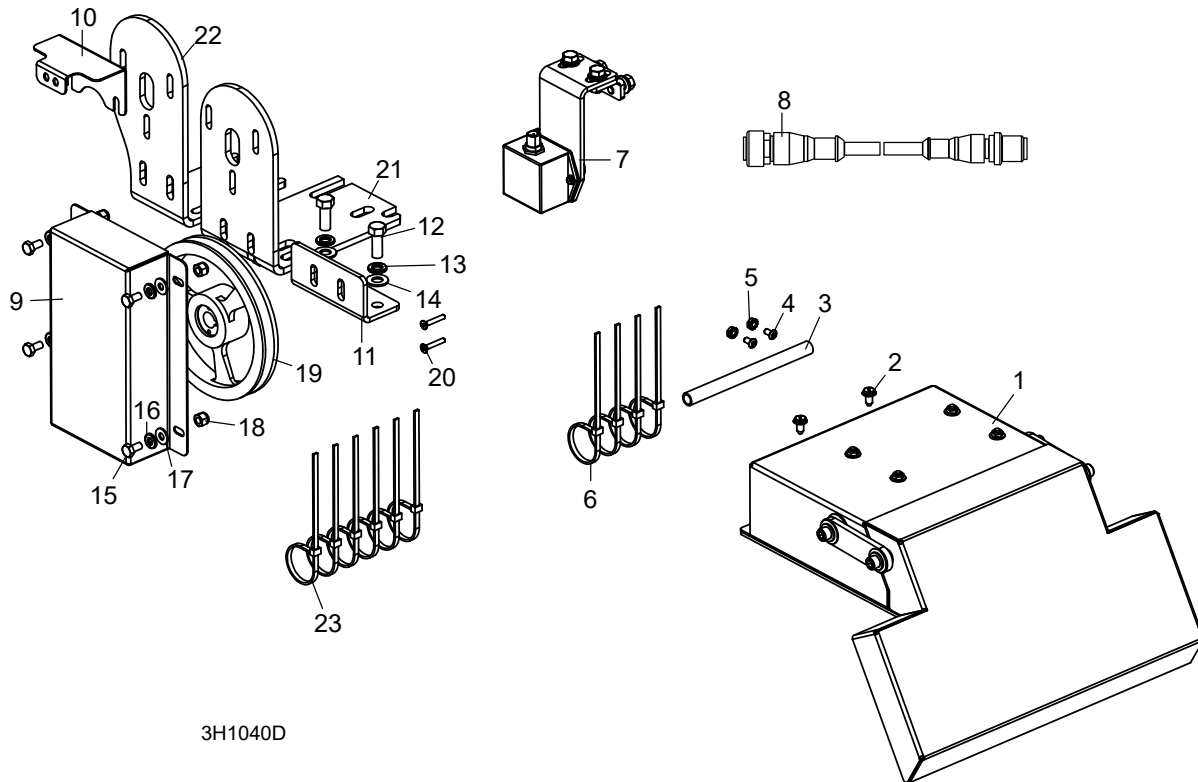
6. Press the Manual  button to return to the main menu.

## 2 Replacement Parts

Simple Set Kit, Complete (Standard)

### SECTION 2 REPLACEMENT PARTS

#### 2.1 Simple Set Kit, Complete (Standard)



REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.
	<b>KIT, FACTORY-INSTALLED SIMPLE SET (STANDARD)</b>	SSW	1
	<b>KIT, FIELD-INSTALLED SIMPLE SET (STANDARD)</b>	SSW-R	1
1	Simple Set Control ( <a href="#">See Section 2.5</a> )		
2	Screw, 1/4-20 x 1/2" Slotted Hex Head	F05015-1	2
3	Tubing, 1/2" Neoprene	R02348	.5 ft.
4	Screw, #10-24 x 3/8" Button Socket Head Stainless	F05004-218	2
5	Nut, #10-24 Self-Locking Hex	F05010-14	2
6	Tie Wrap, 3/16" x 6" UV Black	F05089-3	4
7	Sensor Assy, Magnetic Position ( <a href="#">See Section 2.4</a> )		
8	Cable, Simple Set Sensor	053380	1
9	Cover, Simple Set Enclosure	006862	1
10	Bracket, Sensor Cable (SSW Only)	007067 <sup>1</sup>	1
11	Bracket, Simple Set Mount (SSW-S Only)	007416	1
12	Bolt, 3/8-16 x 1" Hex Head	F05007-7	2
13	Washer, 3/8" Split Lock	F05011-4	2
14	Washer, 3/8" SAE Flat	F05011-3	2

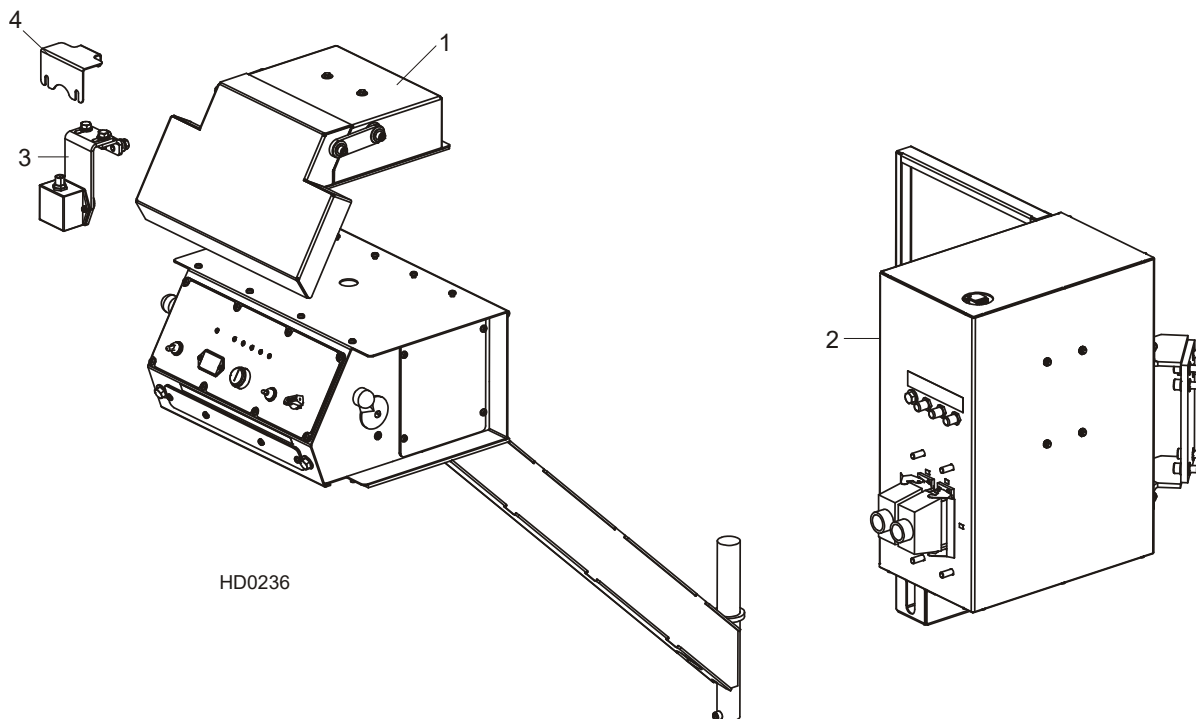
<b>SSW-R Field Installed Kit Only (Includes parts above plus):</b>				
<b>15</b>	Bolt, 1/4-20 x 1/2" Hex Head	F05005-15	4	
<b>16</b>	Washer, 1/4" Split Lock	F05011-14	4	
<b>17</b>	Washer, 1/4" SAE Flat	F05011-11	4	
<b>18</b>	Nut, 1/4-20 Hex Nylon Lock	F05010-69	4	
<b>19</b>	Sheave, Modified AK64 x 5/8"	006874	1	
<b>20</b>	Screw, #8-32 x 1" Flat Socket Head	F05004-252	2	
<b>21</b>	Bracket, Up/Down Motor Mount (Grove)	014073	1	
<b>22</b>	Bracket, Up/Down Motor Mount (IPTS)	014529	1	
<b>23</b>	Tie Wrap, 3/16" x 6" UV Black	F05089-3	6	
	Instruction Sheet, Simple Set Retrofit	SSW-1600	1	
	Manual, Simple Set Option	M1610	1	

<sup>1</sup> Added to secure sensor cable away from moving up/down pulley (Rev. A.01).

## 2 Replacement Parts

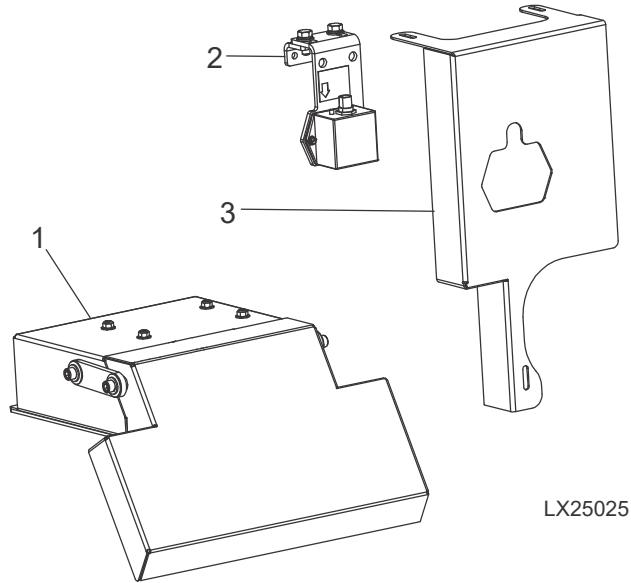
*Simple Set Kit, Complete (Standard Remote)*

### 2.2 Simple Set Kit, Complete (Standard Remote)



REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
1	SIMPLE SET OPERATOR CONTROL ( <a href="#">See Section 2.6</a> )			
2	SIMPLE SET REMOTE POWER BOX ( <a href="#">See Section 2.7</a> )			
	INSTALLATION KIT, REMOTE SIMPLE SET	SSW-R-1	1	
3	Sensor Assy, Magnetic Position ( <a href="#">See Section 2.4</a> )			
4	Plate, Simple Set Cable	007067	1	
	MANUAL, SIMPLE SET OPTION	M1610	1	

### 2.3 Simple Set Kit Complete (LX150)

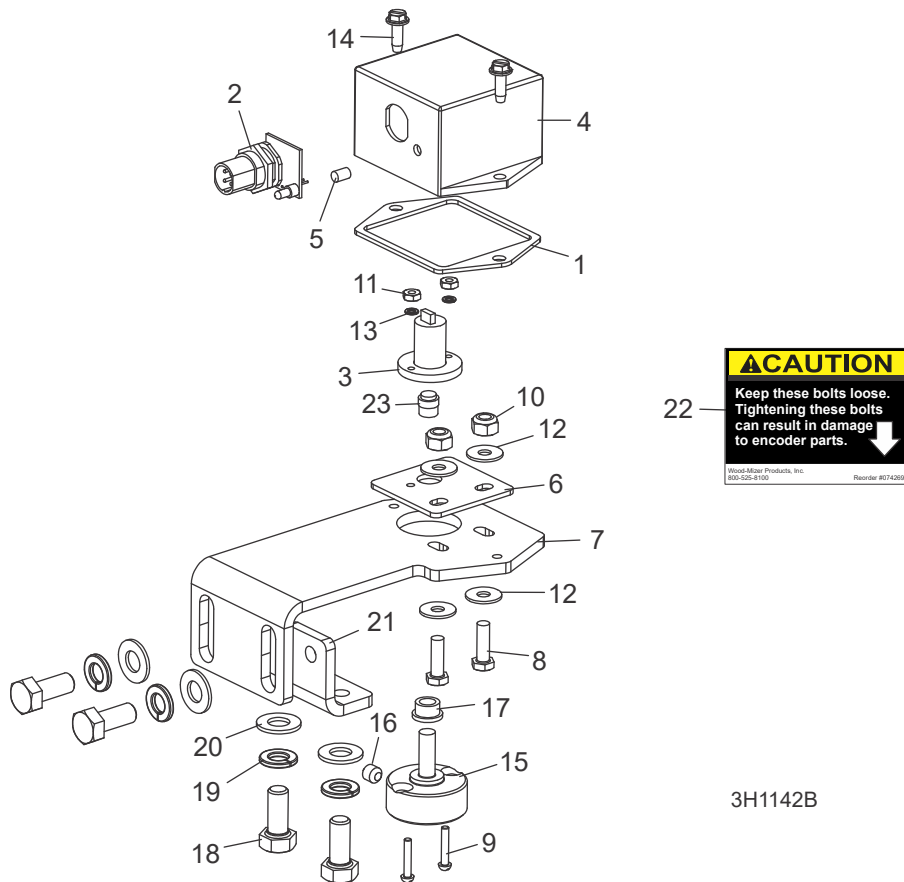


REF	DESCRIPTION (♦ Indicates Parts Available in Assemblies Only)	PART #	QTY.	
	<b>SIMPLESET, FACTORY INSTALLED LX150/250</b>	SSW-LX150		
1	Control Assy, LX150 SimpleSet	073694	1	♦
2	Sensor Assy, Magnetic Position ( <a href="#">See Section 2.4</a> )	053369	1	
3	Guard, LX150 Up/Dn, SSW	110701	1	

## 2 Replacement Parts

### Sensor Assembly (all versions)

## 2.4 Sensor Assembly (all versions)



REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>SENSOR ASSEMBLY, MAGNETIC POSITION</b>	053369	1	
1	Gasket, Encoder	006864	1	
2	PCB Assembly, Encoder Sensor	053376	1	◆
3	Sensor Kit, Magnetic Encoder	053387	1	
4	Enclosure, Position Sensor	053399	1	
5	Lens, LED T1 Clear	053400	1	
6	Plate, SimpleSet Encoder Slide	057853	1	
7	Plate, SimpleSet Encoder Mount	061518	1	
8	Screw, 10-24 x 5/8" Unsl Indent Hex Head Machine	F05004-18	2	
9	Screw, #4-40 x 5/8" SI Rnd Head Machine	F05004-49	2	
10	Nut, 10-24 Hex Nylock	F05010-160	2	
11	Nut, #4-40 Hex	F05010-43	2	
12	Washer, #10 SAE Flat	F05011-18	4	
13	Washer, #4 Split Lock	F05011-21	2	
14	Bolt, #8-32 x 1/2" SI Hex Head S	F05015-18	2	



## Replacement Parts

*Sensor Assembly (all versions)*

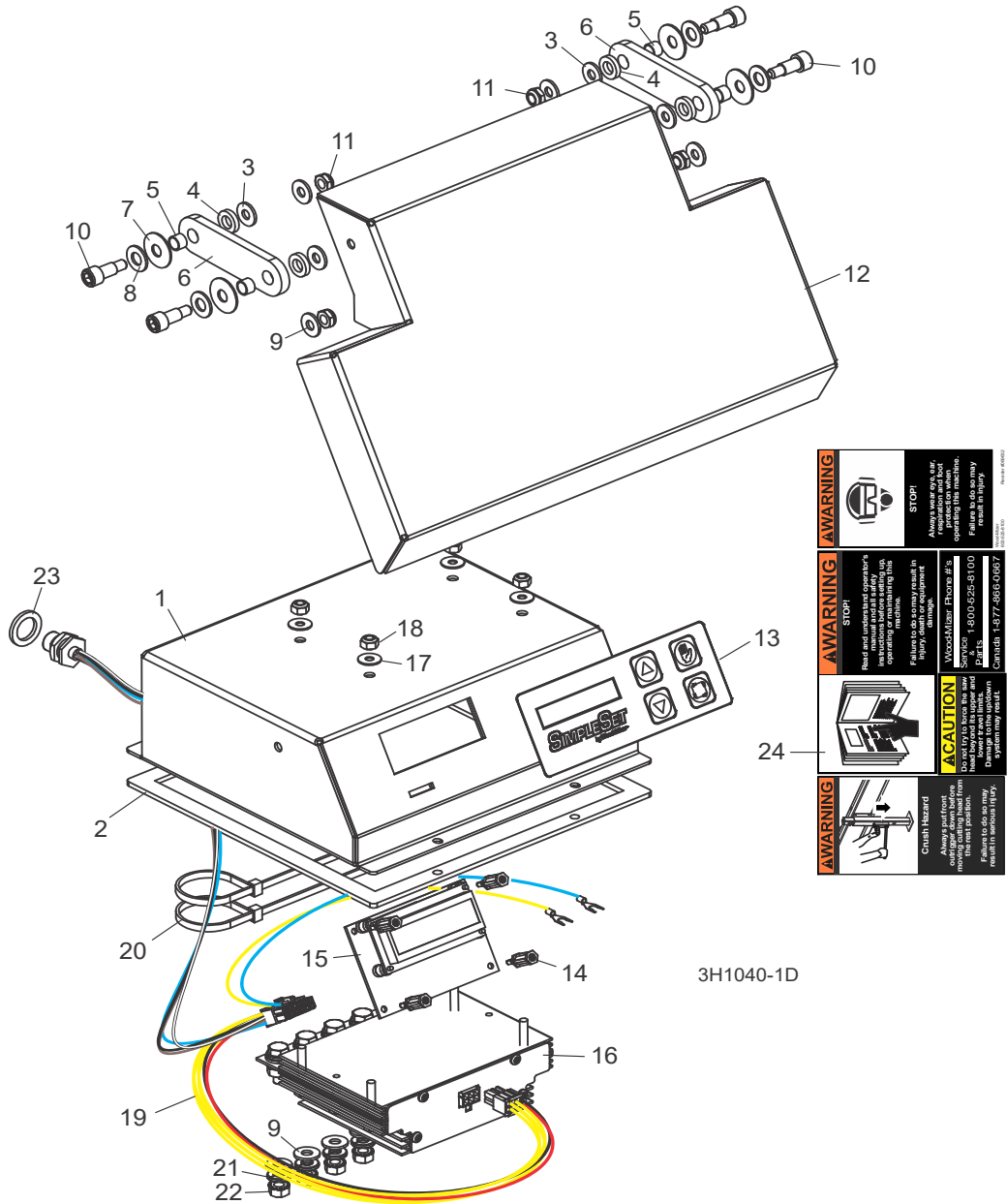
2

15	Extension, SimpleSet Gearbox Shaft	057852	1	
16	Screw, 1/4-20 x 1/4" SH Cup Pt Set	F05005-131	1	
17	Bushing, Flange 1/4" ID x 1/4" Lg	049018	1	
18	Bolt, 5/16-18 x 3/4" Hex Head Cap	F05006-5	4	
19	Washer, 5/16" Split Lock	F05011-13	4	
20	Washer, 5/16" SAE Flat	F05011-17	4	
21	Plate, SimpleSet Mount	057872	1	
22	Decal, Encoder Bolt Warning	074269	1	
23	Magnet Assembly, Simple Set Encoder w/Hub	065890	1	

# 2 Replacement Parts

## Simple Set Control (Standard, SSW)

### 2.5 Simple Set Control (Standard, SSW)



3H1040-1D

REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>CONTROL ASSEMBLY, SIMPLE SET</b>	006847	1	
1	Box Weldment, Simple Set Control	006845	1	
2	Gasket, Simple Set Control Box	006863	1	

## Replacement Parts

*Simple Set Control (Standard, SSW)*

2

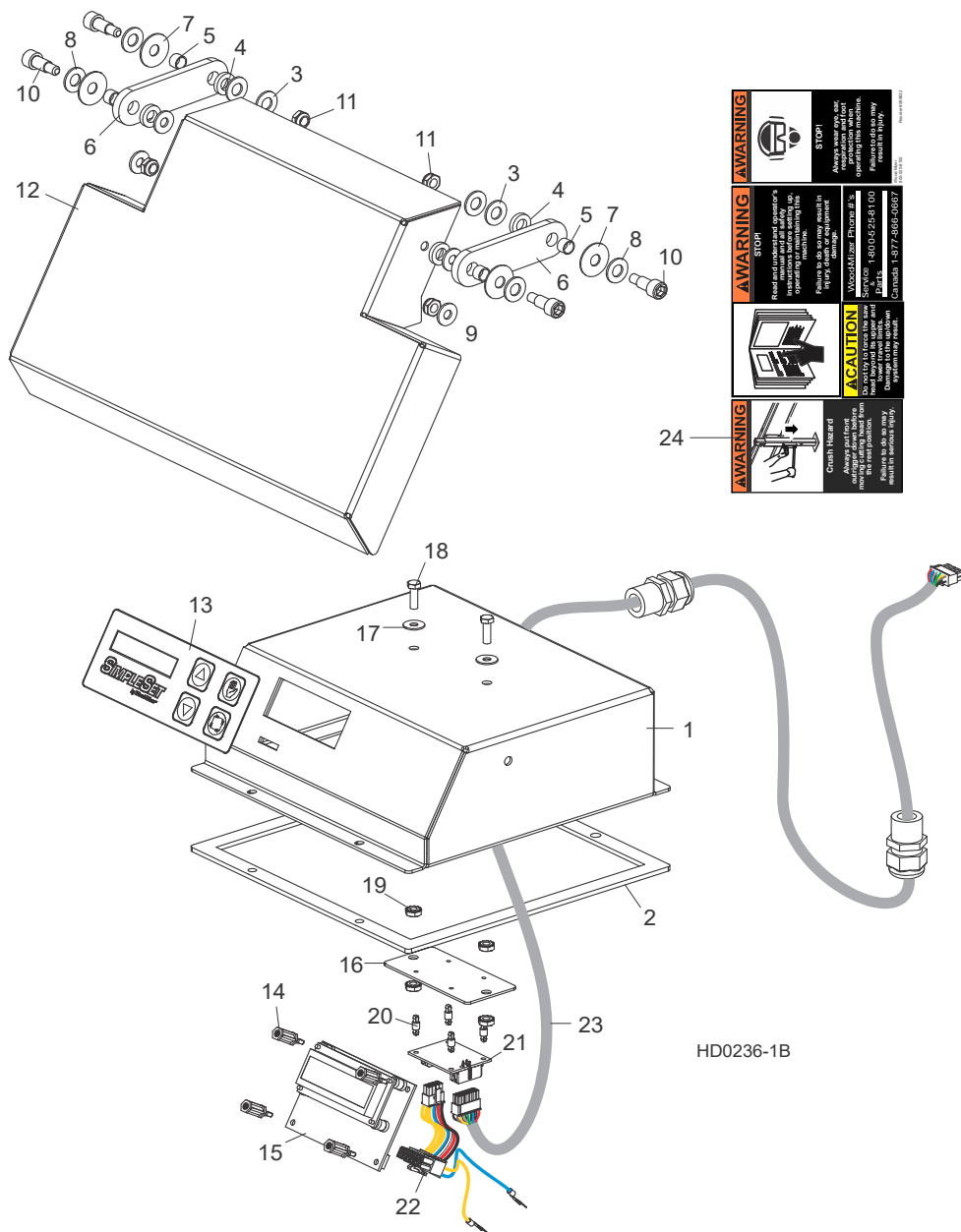
3	Washer, 1/4" SAE Flat	F05011-11	4	
4	Washer, 5/16" Nylon Flat	F05011-92	4	
5	Bushing, 5/16" ID x 3/8" OD x 1/4" Bronze	016655	4	
6	Plate, Simple Set Control Cover Link	006872	2	
7	Washer, 5/16" Belleville	F05011-93	4	
8	Washer, 5/16" SAE Flat	F05011-17	4	
9	Washer, 1/4" SAE Flat	F05011-11	8	
10	Bolt, 5/16" x 1/2" Shoulder 1/4-20 Thread Stainless	F05006-69	4	
11	Nut, 1/4-20 Hex Half Nylon Lock	F05010-156	4	
12	Cover, Simple Set Control	006846	1	
13	Membrane, Simple Set Control Switch	053347	1	
14	Standoff, 5/8" Threaded PCB	053385	4	
15	PCB Assembly, Simple Set Control	053377	1	
	PCB Assy, <b>LX150/250</b> SimpleSet Control	073695		
16	H-Bridge Assembly, Simple Set	053373	1	
17	Washer, #10 SAE Flat	F05011-18	4	
18	Nut, #10-24 Hex Nylon Lock	F05010-160	4	
19	Harness Assembly, Simple Set Control	053379	1	
20	Tie Wrap, 3/16" x 6" UV Black	F05089-3	2	
21	Washer, 1/4" Split Lock	F05011-14	4	
22	Nut, 1/4-20 Self-Locking Hex	F05010-9	4	
23	Washer, 5/8" x 15/16" x .094 Nylon	F05011-19 <sup>1</sup>	1	
24	Decal, Control Box 4 x Warning	069632	1	

<sup>1</sup> Added to better secure harness plug (Rev. A.03).

## 2 Replacement Parts

### Simple Set Control (Standard Remote Operator, SSW-R)

## 2.6 Simple Set Control (Standard Remote Operator, SSW-R)



REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.
	<b>CONTROL ASSEMBLY, SIMPLE SET (REMOTE)</b>	053680	1
1	Box Weldment, Simple Set Control (Remote)	007812	1
2	Gasket, Simple Set Control Box	006863	1
3	Washer, 1/4" SAE Flat	F05011-11	4
4	Washer, 5/16" Nylon Flat	F05011-92	4

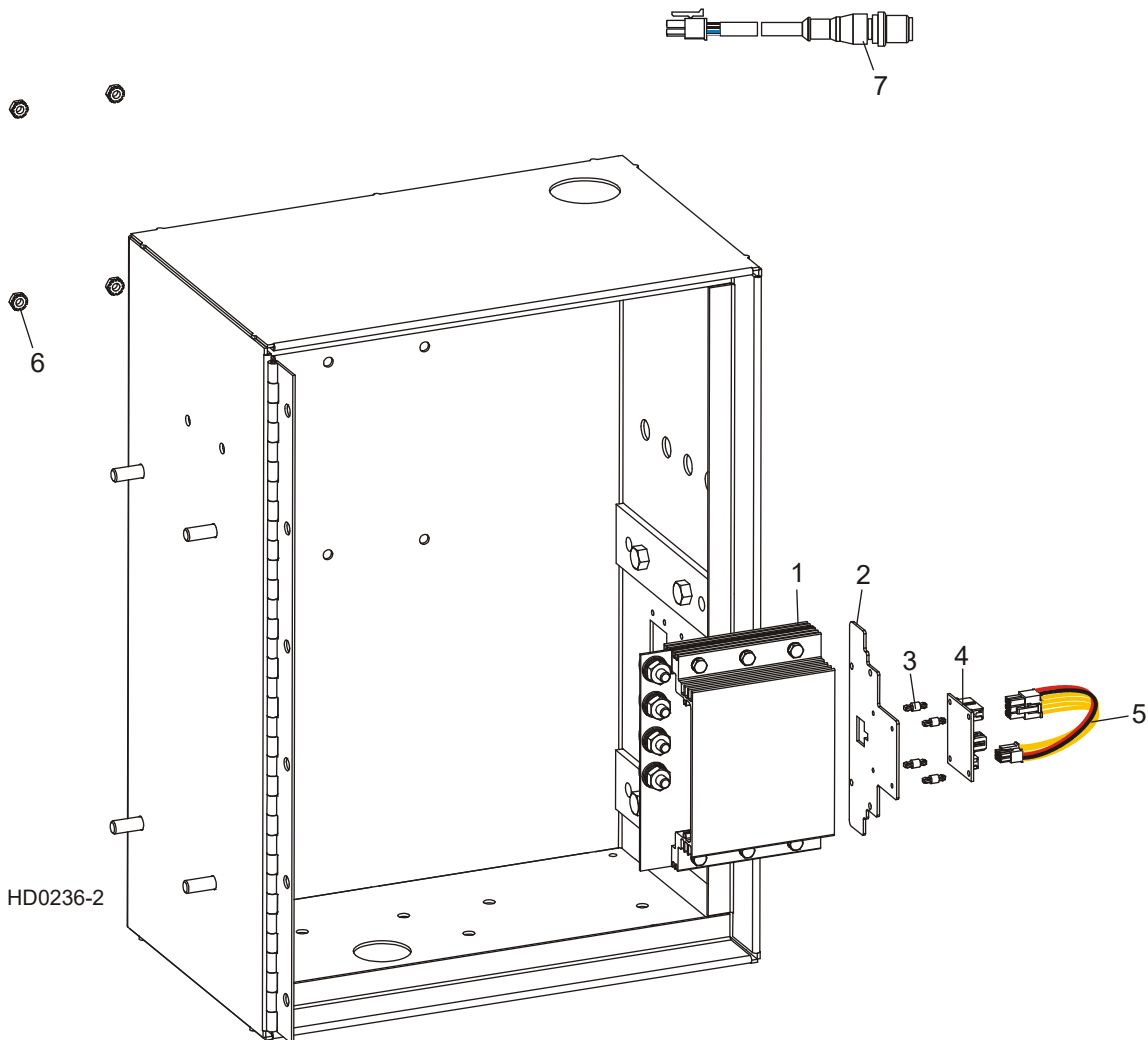
**Replacement Parts****2***Simple Set Control (Standard Remote Operator, SSW-R)*

<b>5</b>	Bushing, 5/16" ID x 3/8" OD x 1/4" Bronze	016655	4	
<b>6</b>	Plate, Simple Set Control Cover Link	006872	2	
<b>7</b>	Washer, 5/16" Belleville	F05011-93	4	
<b>8</b>	Washer, 5/16" SAE Flat	F05011-17	4	
<b>9</b>	Washer, 1/4" SAE Flat	F05011-11	20	
<b>10</b>	Bolt, 5/16" x 1/2" Shoulder 1/4-20 Thread Stainless	F05006-69	4	
<b>11</b>	Nut, 1/4-20 Hex Half Nylon Lock	F05010-156	8	
<b>12</b>	Cover, Simple Set Control	006846	1	
<b>13</b>	Membrane, Simple Set Control Switch	053347	1	
<b>14</b>	Standoff, 5/8" Threaded PCB	053385	4	
<b>15</b>	PCB Assembly, Simple Set Control	053377	1	
<b>16</b>	Plate, Remote SimpleSet PCB Mount	007814	1	
<b>17</b>	Washer, #10 SAE Flat	F05011-18	2	
<b>18</b>	Screw, #10-24 x 5/8" Unslotted Indent Hex Head Machine	F05004-18	2	
<b>19</b>	Nut, #10-24 Self-Locking Hex	F05010-14	4	
<b>20</b>	Standoff, .100" Male-Male Quick-Fit	053654	4	
<b>21</b>	PCB Assembly, Remote SimpleSet Driver	053631	1	
<b>22</b>	Harness Assembly, Remote SimpleSet Control	053634	1	
<b>23</b>	Cable Assembly, Remote SimpleSet Interface	053629	1	
<b>24</b>	Decal, Control Box 4 x Warning	069632	1	

## 2 Replacement Parts

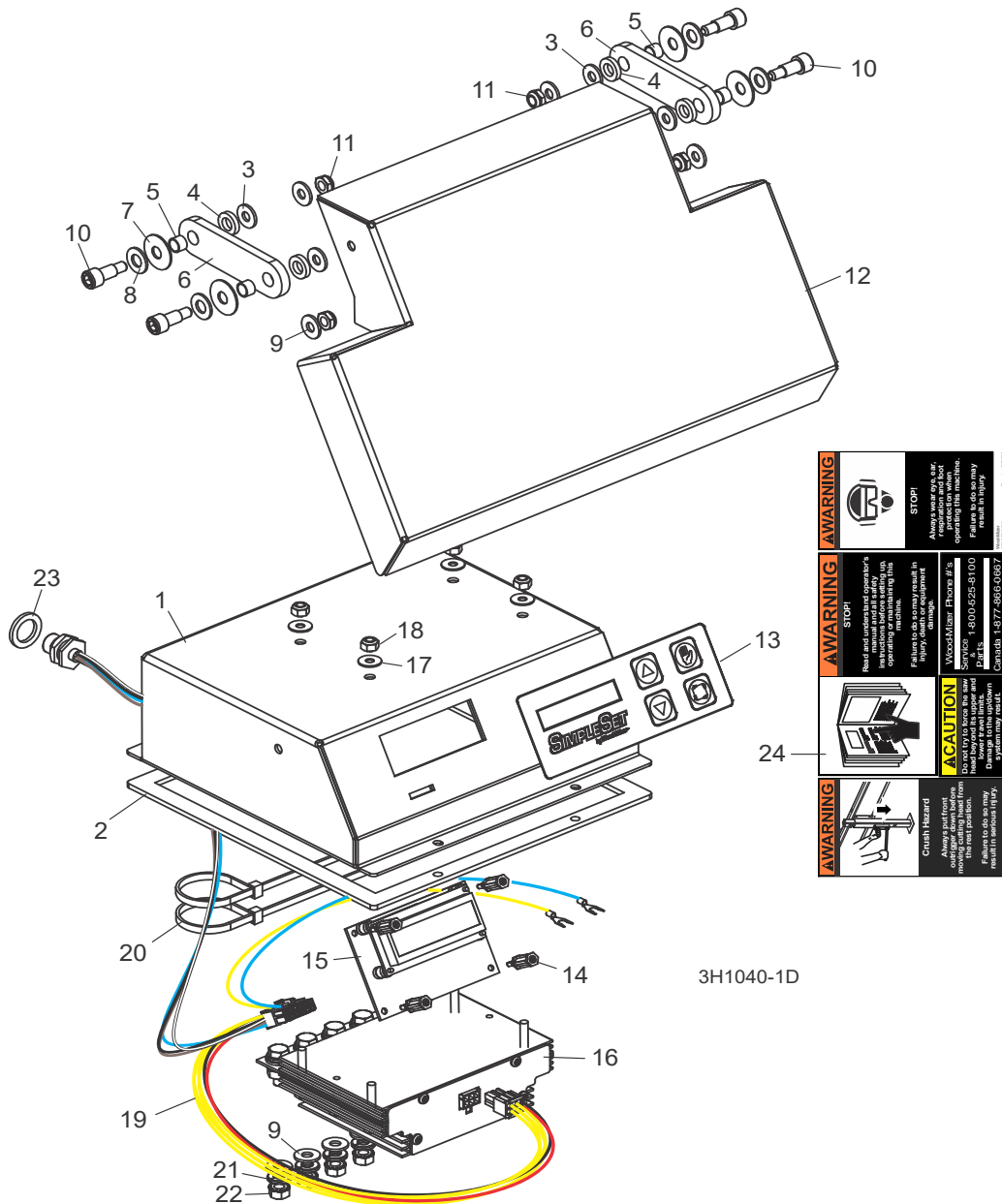
### Simple Set Control (Standard Remote Power Box)

## 2.7 Simple Set Control (Standard Remote Power Box)



REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>H-BRIDGE ASSEMBLY, REMOTE SIMPLESET</b>	053681	1	
1	H-Bridge Assembly, SimpleSet	053373	1	
2	Plate, Remote SimpleSet Front	053633	1	
3	Standoff, .100" Male-Male Quick-Fit	053654	4	
4	PCB Assembly, Remote SimpleSet Receiver	053630	1	
5	Harness Assembly, Remote SimpleSet Bridge	053633	1	
6	<b>NUT, #10-24 SELF-LOCKING HEX</b>	F05010-14	4	
7	<b>CABLE ASSEMBLY, REMOTE SIMPLESET SENSOR</b>	053632	1	

2.8 Simple Set Control (LX150/250, SSW-150-A)



3H1040-1D

REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	<b>CONTROL ASSEMBLY, LX150 SIMPLE SET</b>	073694	1	
1	Box Weldment, Simple Set Control	006845	1	
2	Gasket, Simple Set Control Box	006863	1	

# 2

## Replacement Parts

*Simple Set Control (LX150/250, SSW-150-A)*

3	Washer, 1/4" SAE Flat	F05011-11	4	
4	Washer, 5/16" Nylon Flat	F05011-92	4	
5	Bushing, 5/16" ID x 3/8" OD x 1/4" Bronze	016655	4	
6	Plate, Simple Set Control Cover Link	006872	2	
7	Washer, 5/16" Belleville	F05011-93	4	
8	Washer, 5/16" SAE Flat	F05011-17	4	
9	Washer, 1/4" SAE Flat	F05011-11	8	
10	Bolt, 5/16" x 1/2" Shoulder 1/4-20 Thread Stainless	F05006-69	4	
11	Nut, 1/4-20 Hex Half Nylon Lock	F05010-156	4	
12	Cover, Simple Set Control	006846	1	
13	Membrane, Simple Set Control Switch	053347	1	
14	Standoff, 5/8" Threaded PCB	053385	4	
15	PCB Assembly, Simple Set Control	073695	1	
16	H-Bridge Assembly, Simple Set	053373	1	
17	Washer, #10 SAE Flat	F05011-18	4	
18	Nut, #10-24 Hex Nylon Lock	F05010-160	4	
19	Harness Assembly, Simple Set Control	053379	1	
20	Tie Wrap, 3/16" x 6" UV Black	F05089-3	2	
21	Washer, 1/4" Split Lock	F05011-14	4	
22	Nut, 1/4-20 Self-Locking Hex	F05010-9	4	
23	Washer, 5/8" x 15/16" x .094 Nylon	F05011-19 <sup>1</sup>	1	
24	Decal, Control Box 4 x Warning	069632	1	

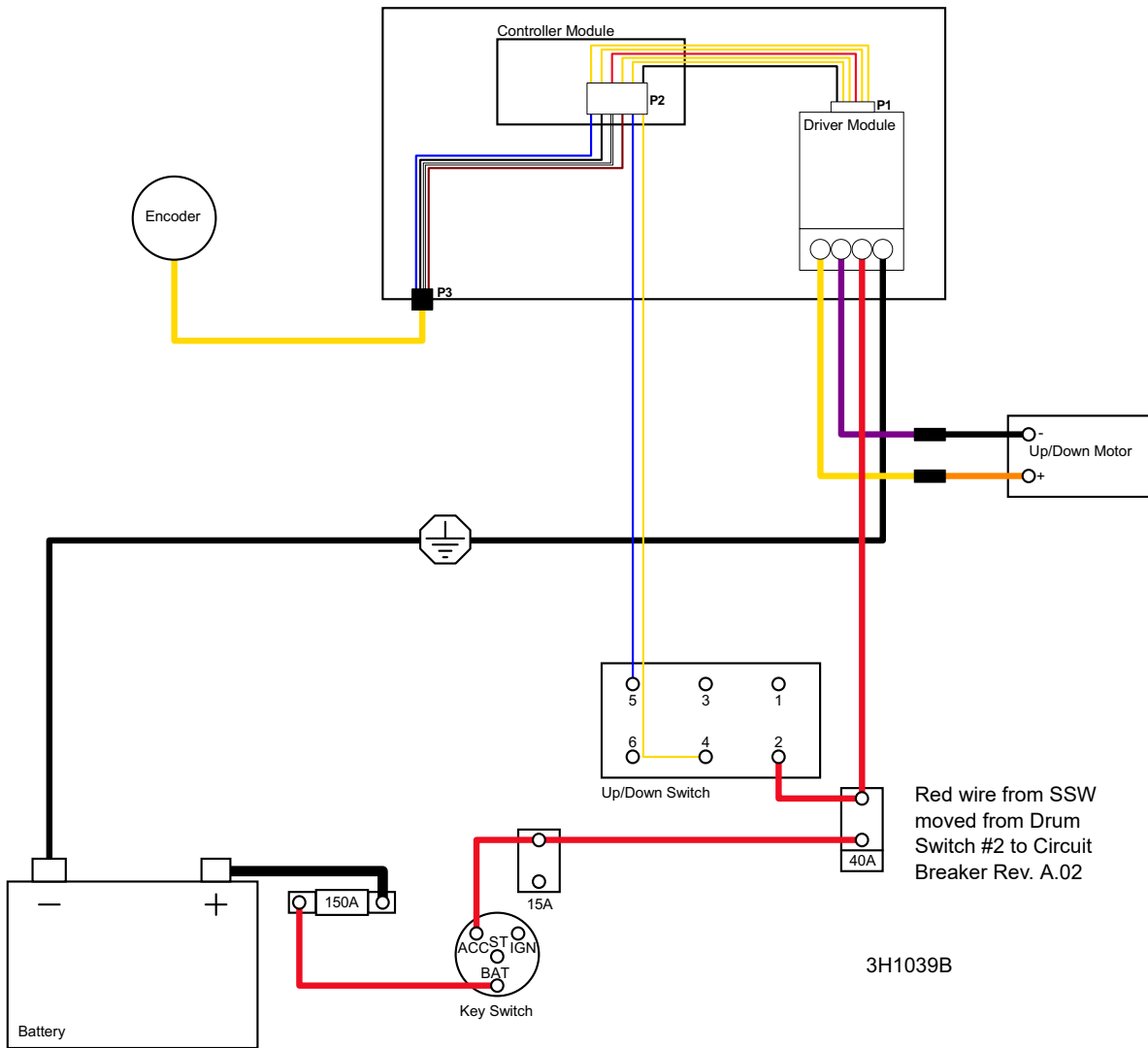
<sup>1</sup> Added to better secure harness plug (Rev. A.03).



## SECTION 3 ELECTRICAL INFORMATION

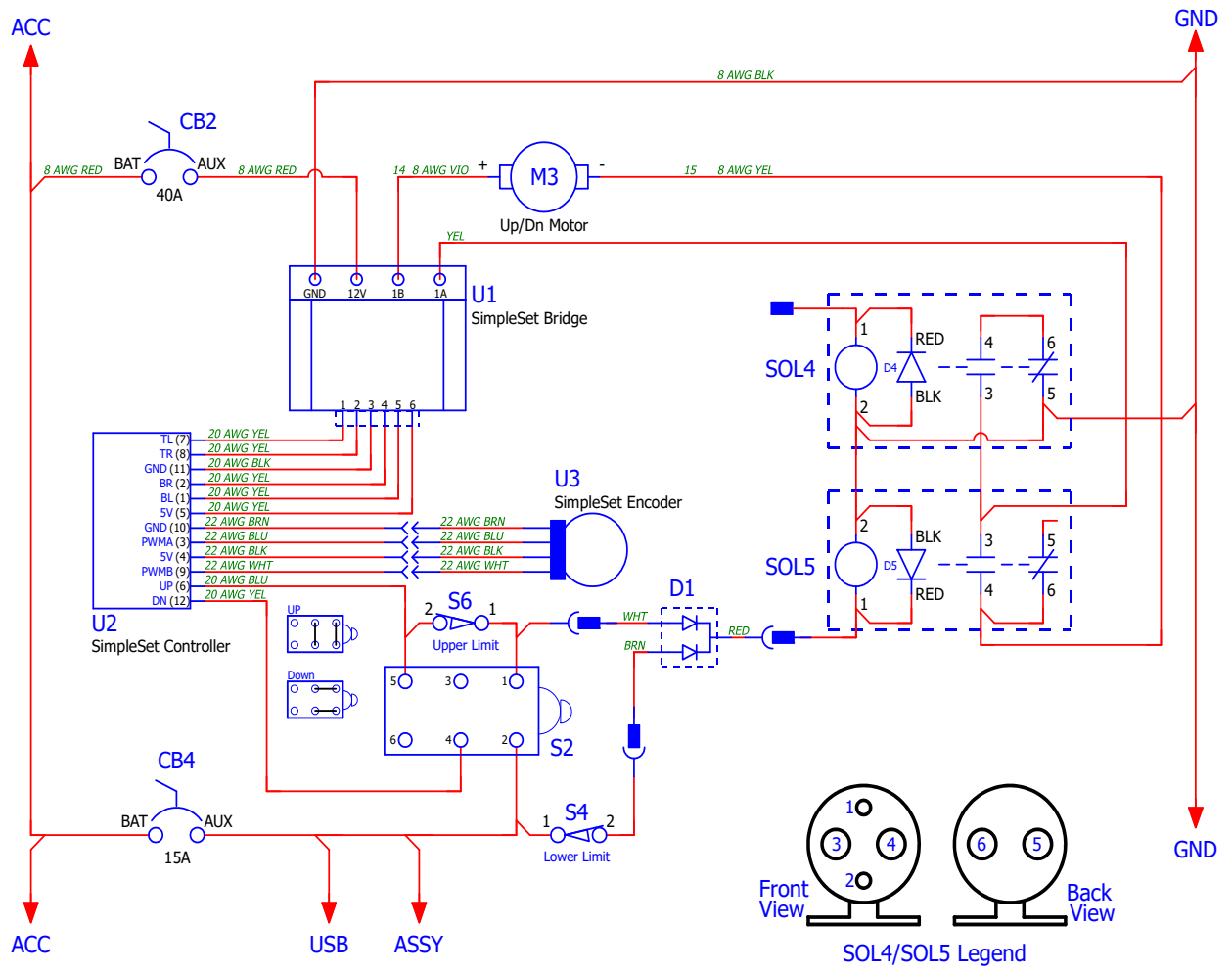
**NOTE:** SimpleSet wiring for remote sawmills is provided in the sawmill wiring diagrams.

### 3.1 Wiring Diagram (Standard)



**NOTE:** SimpleSet wiring for remote sawmills is provided in the sawmill wiring diagrams.

**3.2 Wiring Diagram (LX150/LX250 installed)**



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