

Laser Sight LT70 DCS/Super

Safety, Operation, Maintenance & Parts Manual

LS LT70DCS Laser Kit **rev. E.00**
(LT70DCS & LT70Super)

Safety is our #1 concern!

February 2012

Form #1786

USED WITH:

**LT70 DCS MILLS
LT70 SUPER HYDRAULIC**

***FOR ALL OTHER LT70 MILLS, SEE
MANUAL 1081***



WARNING! Read and understand this manual before using this machine.

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.



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.

Active Patents assigned to Wood-Mizer, LLC

Wood-Mizer, LLC has received patents that protect our inventions which are a result of a dedication to research, innovation, development, and design. Learn more at: woodmizer.com/patents

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SECTION 1 LASER INSTALLATION

Before installing the laser option, be aware that the laser beam can not be seen in direct sunlight. The laser option is best for indoor cutting applications.

1.1 Laser Installation

1. Locate the four square mounting holes on the saw head near the bottom of the drive-side blade housing.
2. Mount the laser/bracket assembly to the saw head using the four carriage head bolts, flat washers and lock nuts.
- 3.
4. Remove the drive belt guard.
5. Route the cable: **See Fig. 1-2.**

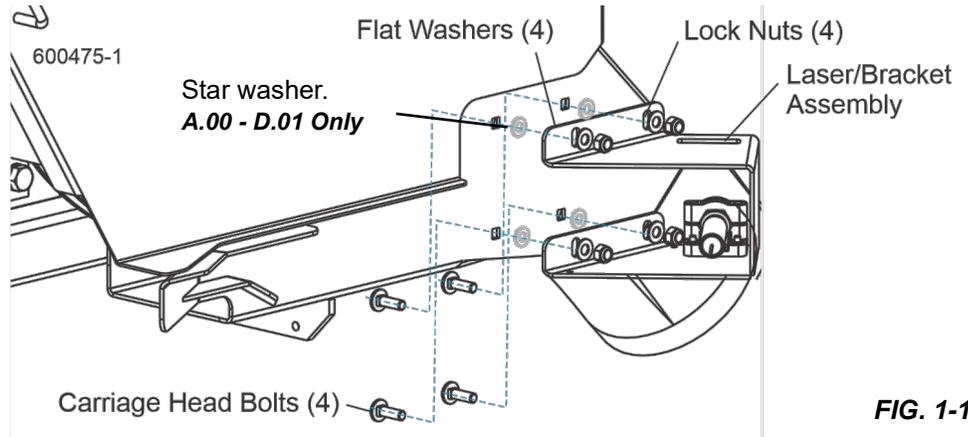


FIG. 1-1

- a. Route the laser cable under the saw head along the brace plate and secure the cable with the three provided wire clamps.
- b. Bolt the wire clamps to the brace plate with the three 1/4-20 x 1/2" hex head bolts, flat washers and self-locking nuts provided.
- c. Continue routing the laser cable as shown below and connect the laser cable plug to the laser harness plug.
- d. Use the two provided wire ties to secure the laser cable to the saw head frame (and up/down motor wire harness for LT70DCS only).
- e. Reinstall the drive belt guard.

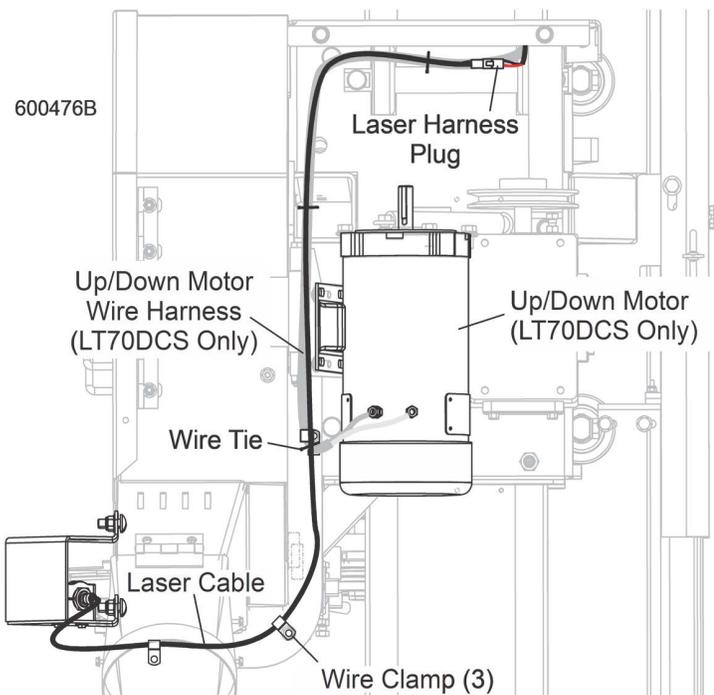


FIG. 1-2 REV. E.00+

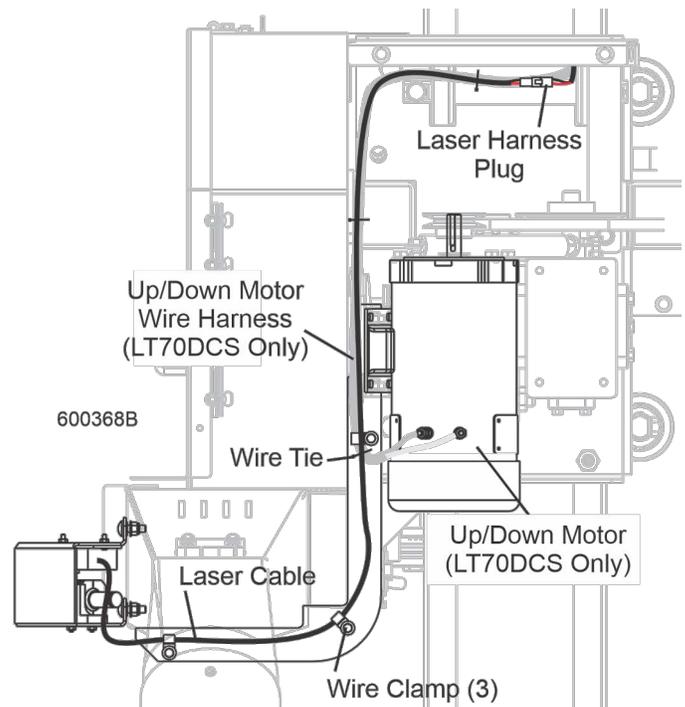


FIG. 1-2 REV. A.00 - D.01

1.2 Laser Activation (LT70DCS Only)

The laser option needs to be activated in the control panel after installation. Use the following steps to activate the laser option.

1. Enter the User Configuration screen by pushing the UP button while in Manual Mode.
2. Select the System Options menu and push the CHECK button to enter.

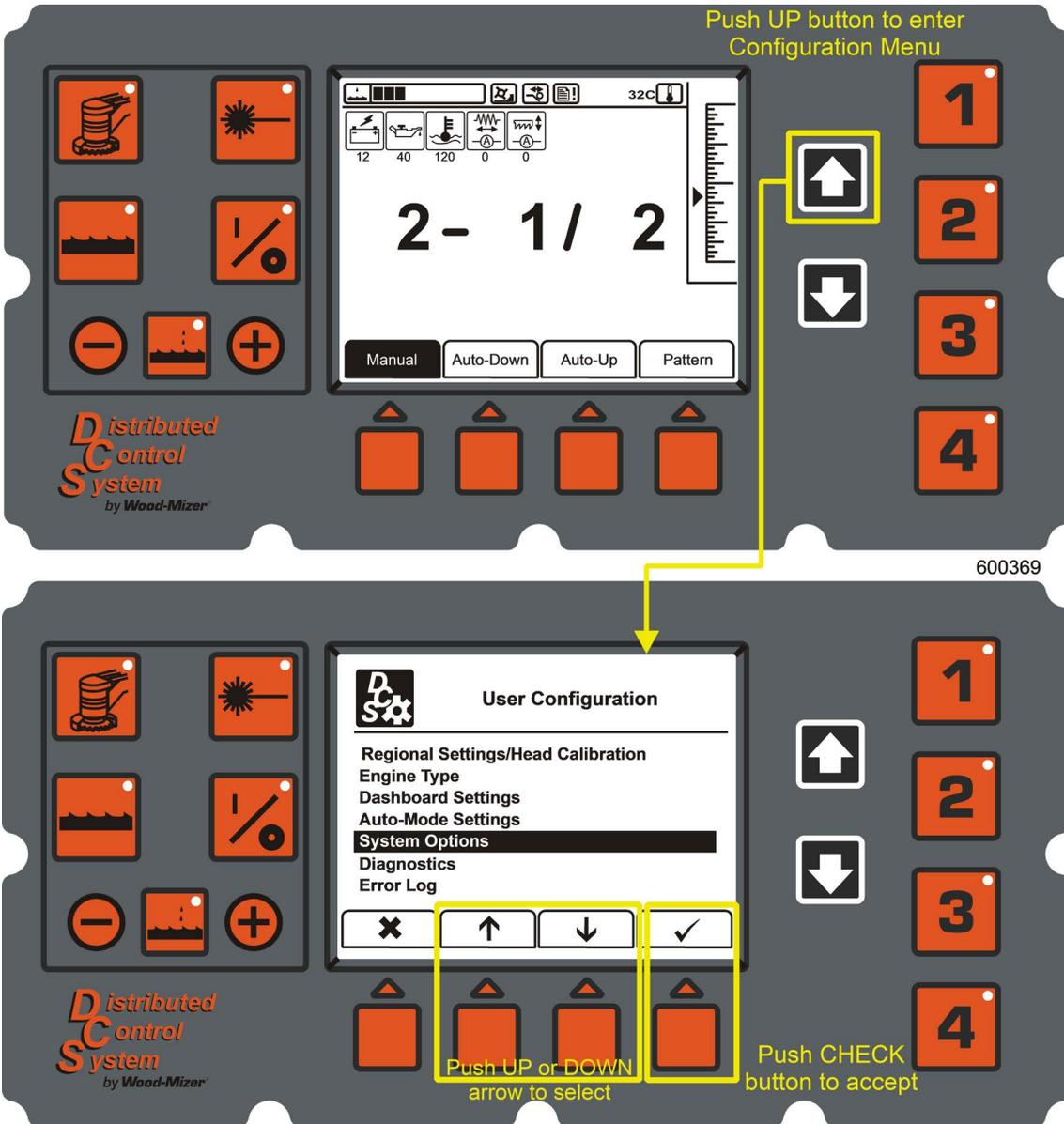


FIG. 1-3

3. Use the UP/DOWN arrows at the bottom to select the Laser Installed option.
4. Use the side UP/DOWN buttons to change the Laser Installed to Yes.
5. Push the SAVE button to save the changes and exit.

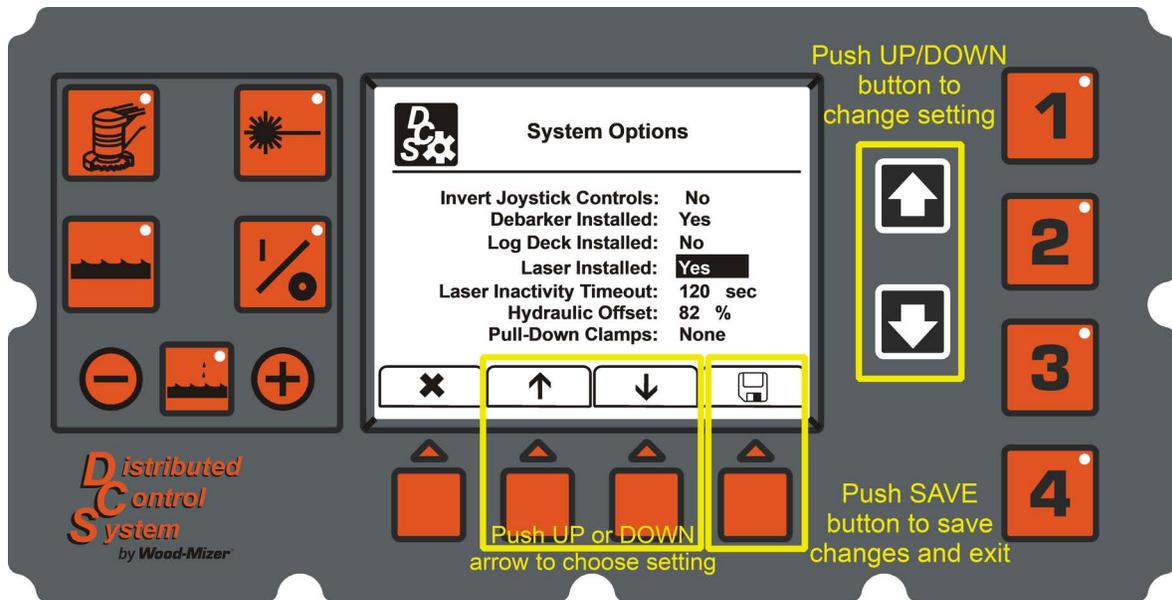


FIG. 1-4

1.3 Laser Activation (LT70Super Only)

The laser option does not need to be activated in the control panel after installation. The laser button is always available on the Main screen as shown below.

1. Enter the Main screen to see the laser button.

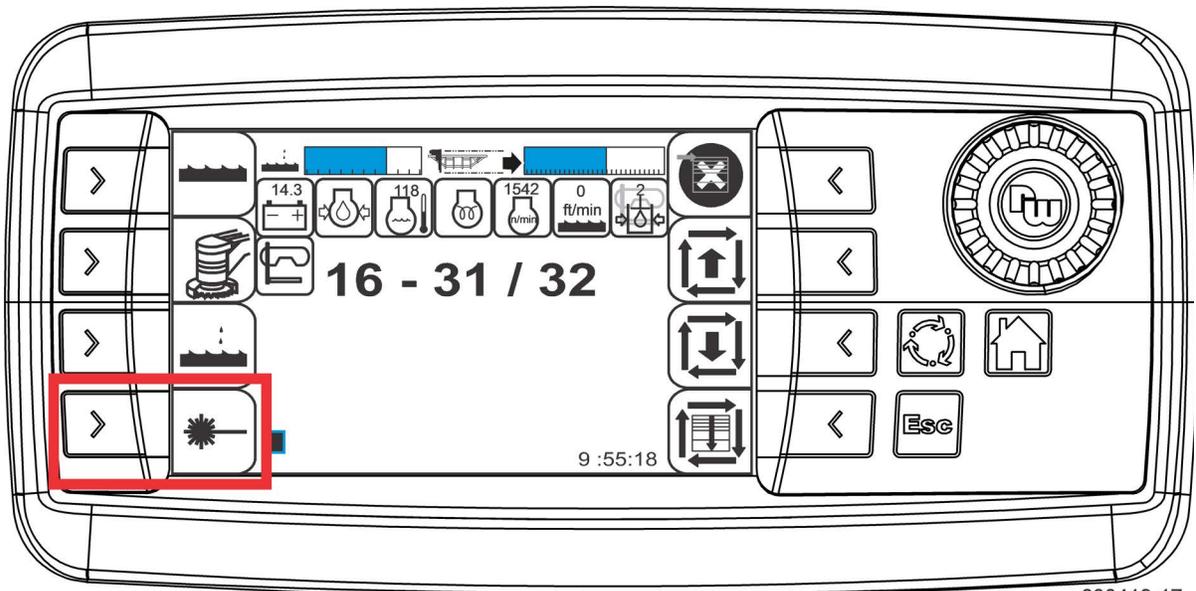


FIG. 1-5

SECTION 2 OPERATION & ALIGNMENT

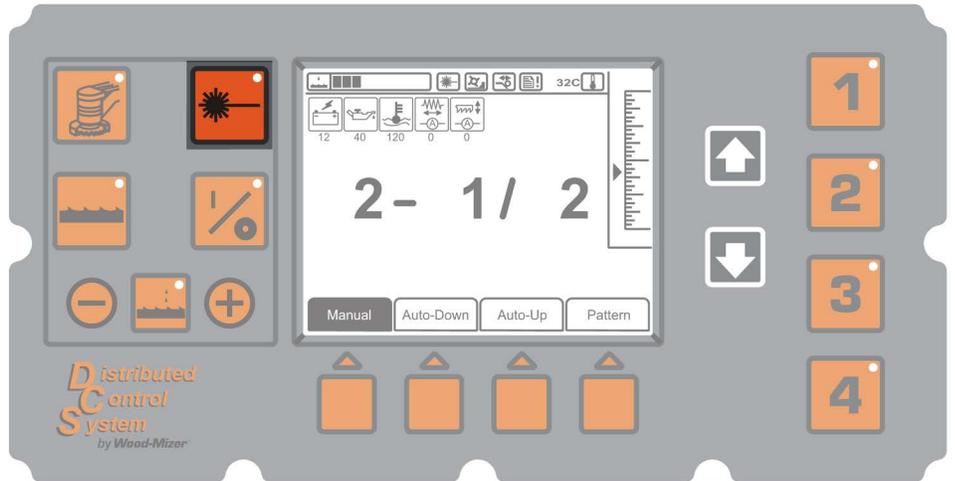
2.1 Laser Operation (LT70DCS Only)

When properly installed, the laser option will guide you in making cuts.

Press the laser button on the control panel to turn on the laser. The button LED will light up.

Press the laser button on the control panel to turn off the laser. The button LED will go out.

NOTE: If the forward/reverse joystick is not used for 2 minutes, the laser will automatically turn off. Use of the forward/reverse joystick again will turn the laser back on.



600371
FIG. 2-1

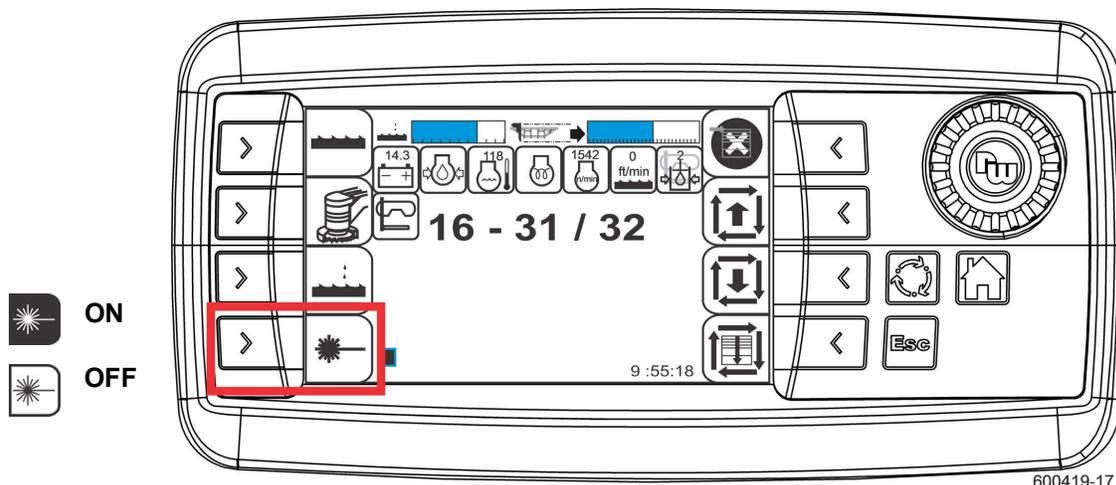
2.2 Laser Operation (LT70Super Only)

When properly installed, the laser option will guide you in making cuts.

Press the laser button on the Main screen to turn on the laser. The laser icon will light up.

Press the laser button on the Main screen to turn off the laser. The laser icon will go out.

NOTE: If the forward/reverse joystick is not used for 2 minutes, the laser will automatically turn off. Use of the forward/reverse joystick again will turn the laser back on..



600419-17
FIG. 2-2

2.3 Laser Alignment

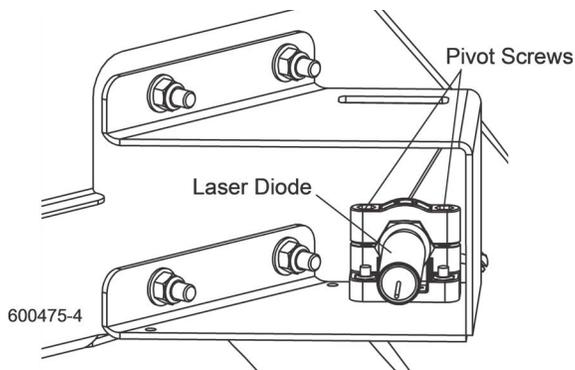
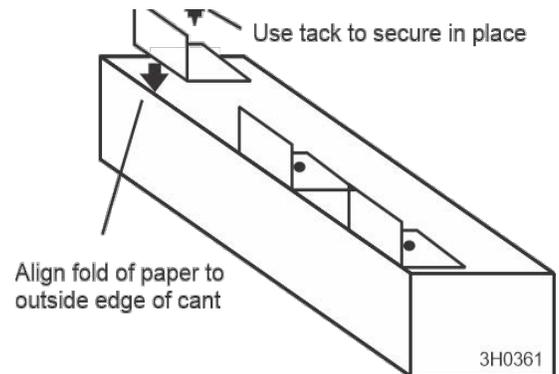
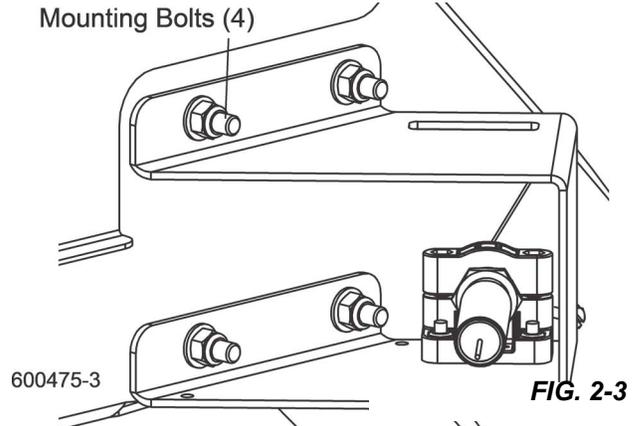
1. Sawmills should be setup on firm, level ground before proceeding with alignment.
2. Shim the feet so the weight of the sawmill is evenly supported.
3. Adjust the two end outriggers on the main frame tube down just enough to lift weight from the trailer tire.
4. Adjust the two outer outriggers down just so they touch the ground but do not bear weight.
5. Make sure the sawmill is properly aligned (see the Alignment Section of your Sawmill Operator's Manual.)
6. Load a cant onto the bed of the sawmill.
7. Make a cut.
8. Without raising the carriage head, return it to the front of the sawmill so that blade remains level with the top of the cant and the carriage head is 1' behind the front of the cant.
9. Align the laser.

When the laser is properly aligned, approximately 10" of beam will show across the front of the cant.

1. To adjust the laser vertically, loosen the assembly mounting fasteners.
2. Move the entire laser assembly up or down as necessary.
3. Retighten the fasteners to secure the assembly in position.

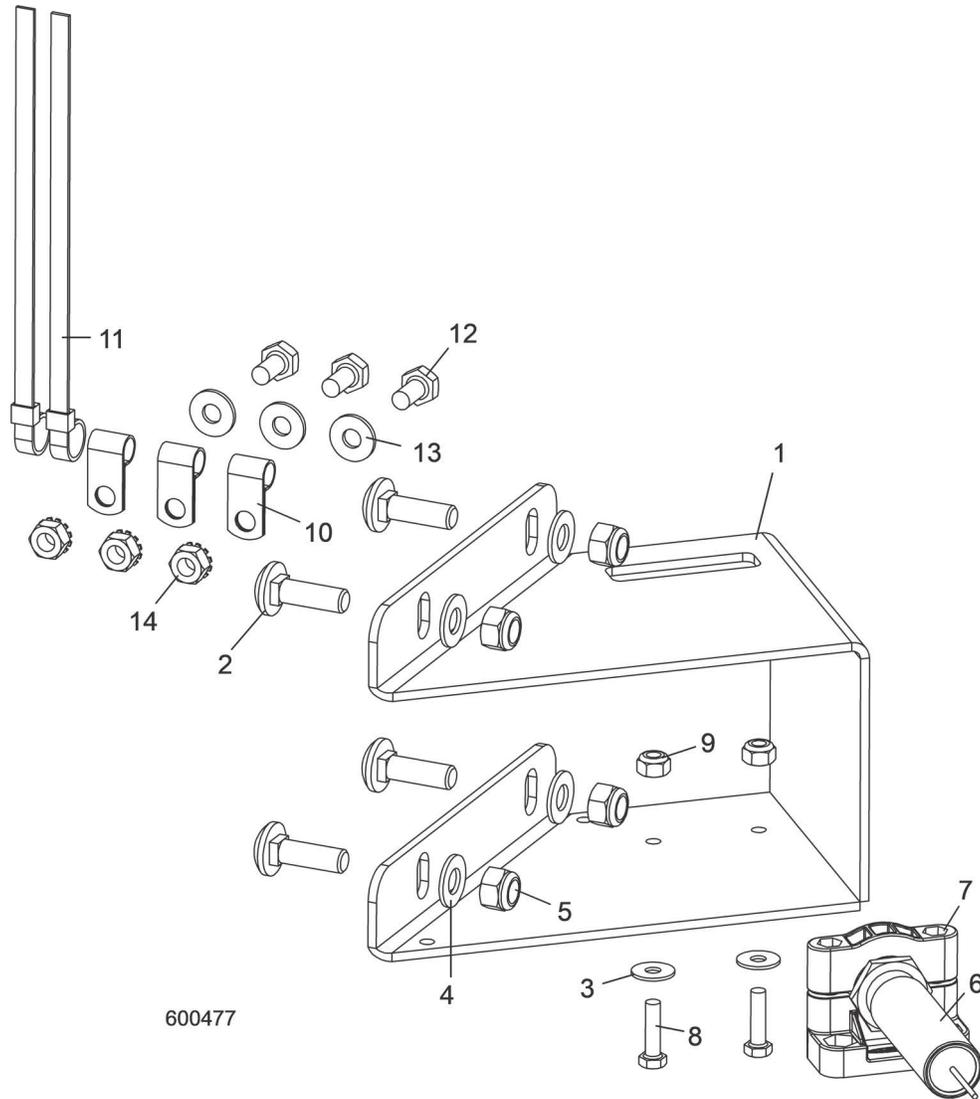
If the laser beam is adjusted too low, it will show against the side of the cant. But, to see a beam that is adjusted too high, it may be necessary to extend the edge of the cant upward. To do this, fold pieces of paper in half and position them so that the folds align with the outside edge of the cant as shown. Use a thumbtack to secure the bottom half of the papers to the cant.

To adjust the laser horizontally, loosen the laser pivot screws. Pivot the laser diode side to side, or up and down, as necessary. Retighten the pivot screws to secure the diode in place



SECTION 2 REPLACEMENT PARTS

2.1 Laser Assembly



REF	PART #	DESCRIPTION	COMMENTS	QTY.
	LS LT70DCS	LASER KIT, COMPLETE FOR LT60/70		1
	073701	Laser Assembly, 20 mW 638nm 90 Deg RED Line	Available in assemblies only.	1
1	073863	Mount Weldment, LT70 Laser		1
2	F05006-9	Bolt, 5/16-18 x 1" Carriage Head		4
3	F05011-18	Washer, #10 SAE Flat		2
4	F05011-17	Washer, 5/16" SAE Flat		4
5	F05010-58	Nut, 5/16-18 Hex Nylon Lock		4
6	073700	Laser, 20mW 638nm 90 Deg RED Line Z Laser		1
7	074051	Bracket, 18mm Swivel		1
	F05089-6	Tie Wrap, .100 x 4 Black		2
8	F05004-167	Bolt, 10-24 x 3/4" Unslotted Hex Head		2
9	F05010-160	Nut, 10-24 Hex Nylon Lock		2

2 Replacement Parts

Laser Assembly

REF	PART #	DESCRIPTION	COMMENTS	QTY.
	025935	Bag Assembly, LT70 DCS Laser Parts		1
10	025671	Clamp, 1/4" Wire 9/32" Mounting Hole		3
11	F05089-1	Tie Wrap, 1/4" x 6"		2
12	F05005-15	Bolt, 1/4-20 x 1/2" Hex Head		3
13	F05011-11	Washer, 1/4" SAE Flat		3
14	F05010-9	Nut, 1/4-20 Hex Self-Locking		3
	078255	Adapter, Lsr M12 4P Fml to Deutsch 2P MI		1