

Ag Leader[®]
Technology

L160 Installation & Operations Guide

ABOUT THE L160

The L160 is a user-friendly lightbar with 16 tracking LED lights that indicate the vehicle's position in relation to the guidance line. The four LEDs in the middle of the lightbar are green and indicate an "on-line" status. As the vehicle moves off-line to the right or left, yellow LEDs illuminate and indicate the direction off-line. The Liquid Crystal Display (LCD) gives the operator the current distance right or left from the guidance line as well as the current pass number and degree heading. A RAM mount with a suction cup base offers unlimited mounting options. A single cable connection provides a clean installation without cluttering the operator's view.

LCD SCREEN

The L160 features a 50mm X 25mm LCD screen.

Do not use any harsh chemicals to clean the L160, as these could discolor or damage the graphic overlay and LCD screen.

An anti-static wipe made for computer screens or a damp cloth is the correct way to clean the screen and the L160 enclosure.

CAN-BUS TECHNOLOGY

The L160 is connected to, and powered by the display, which uses Controller Area Network (CAN) technology.



Note: The L160 does not have its own power source, but is powered through the display.

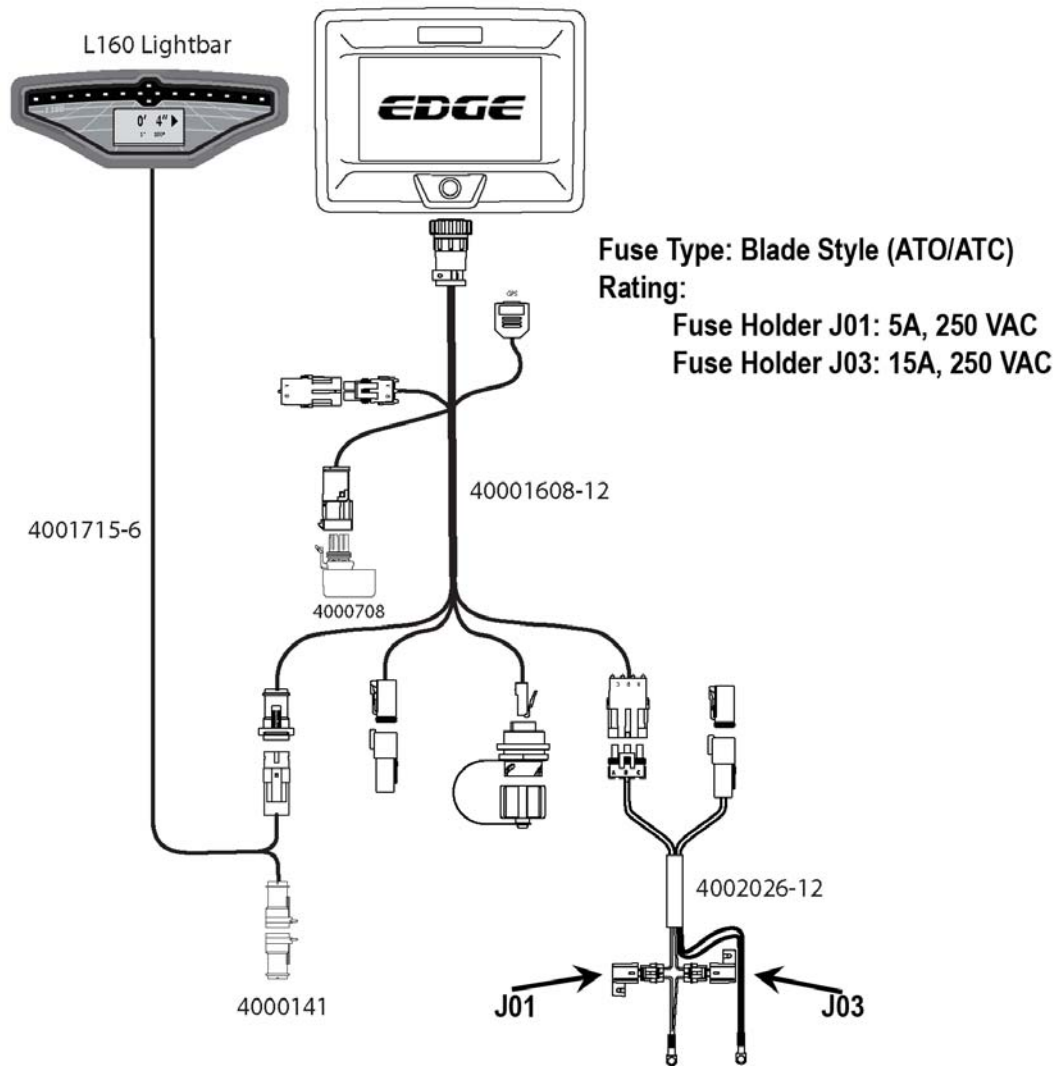
MOUNTING THE LIGHTBAR

The L160 lightbar attaches to a flat surface in the cab of your vehicle. It is not intended to be mounted outside of the cab.

1. Using the supplied screws (M5x0.8) , attach the RAM mount to the back of the L160 lightbar.
2. Select a clean, flat surface. If necessary, clean this surface with a damp cloth.
3. Securely attach the suction cup to this surface by turning the locking collar clockwise to the lock position. A slight tug will confirm the suction cup is securely attached.
4. Adjust the L160 lightbar into a position that is viewable from the operator seat. Secure it in position by tightening the RAM mount.



FUSE IDENTIFICATION AND REPLACEMENT INFORMATION



CAUTION

The fuse is to be placed in the fuseholder in-line with the battery power cable and used with display only.

EQUIPMENT SPECIFICATIONS

- Storage Temperature: -30°C to +70°C
- Operating Temperature: -10°C to +65°C
- Operating Input Voltage: 9 –16 V DC
- Peak Current Draw: 500 mA (5 Watts)
- Humidity - 100% condensing
- IP Rating ID - IP54

⚠ CAUTION

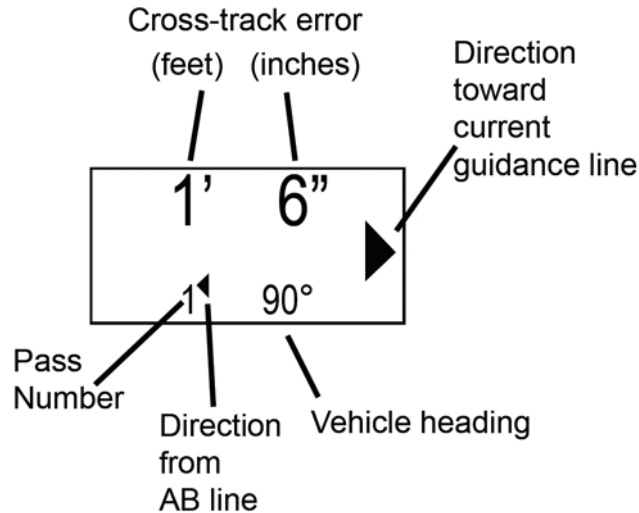
Exceeding these specifications may result in degraded operation and/or damage to the display.

⚠ CAUTION

The L160 is not to be used in a manner other than intended or described in this manual.

LCD SCREEN DURING RUN TIME

Once you have created the pattern in the display, the LCD screen will show a set of numbers and arrows. The information on this screen includes the cross-track error, direction toward the current guidance line, pass number, direction from the original AB line, and degree heading. The cross-track error is shown in feet and inches for operators using Imperial units, and centimeters for those using metric units.



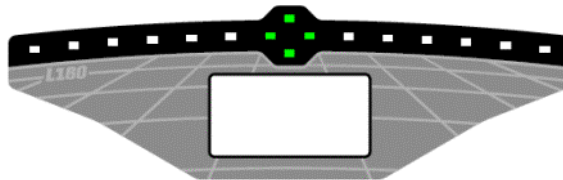
LCD Screen (Shown for Imperial Units)

LED OPERATIONS

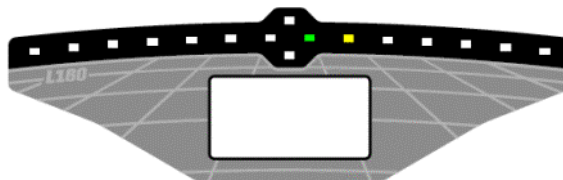
The LEDs on the L160 are representative of specific increments away from the current guidance pattern. These increments are based on measurements that you specified in the setup. For example, if you specify that the increments for the LEDs should be 12", if two yellow LEDs appear on your lightbar your vehicle is between 6" and 18" off track.

The lightbar has four green LEDs in the center, and six yellow LEDs on each side of the center.

- The four green LEDs show that your vehicle is on-line. Only three will show if your vehicle is slightly off-track to the left or right.
- The yellow LEDs show that your vehicle is off track, according to previously-specified increments.







Vehicle On-Line



Vehicle Off-Track

STATUS ITEMS

During the lightbar's operation, you may see various status items appear on the LCD screen. The table below describes these items.

Status Item	Name	Description
	System Ready to Define Pattern	The lightbar is ready for you to set the A and B points in your display (if required) in order to define the guidance pattern. This item appears when no active guidance pattern has been set.
	Recording Pattern	The display system is currently creating the guidance pattern.
	No Communication	The lightbar is unable to communicate with the display.
	No GPS	The display system is not currently receiving a GPS signal.

RELATED DOCUMENTATION

Consult your display manual's GPS/Guidance section for information related to creating patterns, saving and loading, and general guidance functions.

PRODUCT REGISTRATION

When registering your Ag Leader Technology products by one of the following methods, you can elect to receive notice of any new product updates or features.

Register by mail: Ag Leader Technology

2202 South Riverside Dr.

P.O. Box 2348

Ames, IA 50010

Register by Fax: 515-232-3595

Register at the Ag Leader Web site at <http://www.agleader.com>

COMPANY WARRANTY STATEMENT

Warranty

Ag Leader Technology will repair or replace at no charge any component of the L160 that fails during normal service, while being used in an approved application, within two years of the warranty start date. Warranty is not provided for damage resulting from abuse, neglect, accidents, vandalism, acts of nature, or any causes that are outside of the normal intended use of the L160. Ag Leader Technology shall not be liable for indirect, incidental, or consequential damages to the dealer, end user, or third parties arising from the sale, installation, or use of any Ag Leader Technology product.

Copyright Notice

Ag Leader Technology has copyrighted (© 2009) the contents of this manual. No reproductions may be made without first obtaining the consent of Ag Leader Technology.

Service and Support

If you have additional questions or feel that you may be having a problem with your system, call your local Ag Leader Technology dealer or call us directly at the phone number below. If we determine you have a hardware failure, we will ship replacement hardware immediately.

Our Technical Support Department can be reached by phone at 515-232-5363, extension #1; or through email at support@agleader.com.