









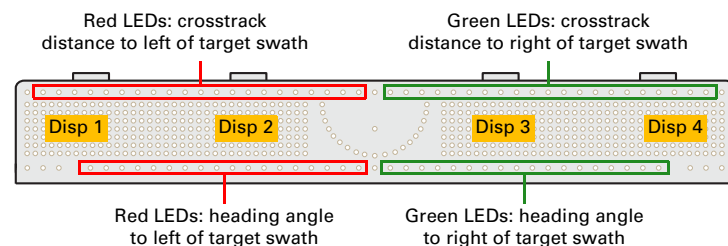
Controller Functions

Item	Function	
	Lightbar dimmer (DIM knob)	Rotate clockwise/counterclockwise to increase/decrease lightbar brightness. Using the Dim menu (setup mode) overrides/disables the DIM knob.
	Circuit breaker	Protection against power surges from the aircraft.
	Power switch	Flip up /down to power the system on/off.
	USB port	Export log files from the controller to a USB drive.
	Menu button	Switch from guidance mode to setup mode or cycle through menu items.
	Enter button	Confirm menu item selection, or switch to swath guidance mode from setup mode (only after you set swath width / pattern).
 	Scroll buttons	Move up or down menu item lists/options.

Cockpit Cable Connections

Cable/Wire	Function
SPRAY ON/OFF	Indicates to the controller whether spray is on or off for use in logging and to illuminate lightbar spray LEDs.
SWATH ADVANCE	Set pattern points (A, B, and optionally C) and receive guidance to next swath when in swath guidance mode.
SWATH DECREMENT	Decrement to a previous swath.
MANUAL MARK	Set ('mark') a location as a navigation mark or a mark to which you want to return.

Lightbar Display



Listed below are the options for each display (Disp) field. Red items indicate default values. X-Track, GPS Alt, and Dst2Mrk are available for display only in the far left (Disp 1) and far right (Disp 4) fields.

Disp 1	Disp 2	Disp 3	Disp 4
SwthNum	SwthNum	SwthNum	SwthNum
X-Track	Blank	Blank	X-Track
Blank	NumSats	NumSats	Blank
GPS Alt	HDOP	HDOP	GPS Alt
NumSats	A/B Hdg	A/B Hdg	NumSats
HDOP	Time	Time	HDOP
A/B Hdg	Acres (Hectare)	Acres (Hectare)	A/B Hdg
Time	AcftHdg	AcftHdg	Time
Dst2Mrk	Speed	Speed	Dst2Mrk
Acres (Hectare)			Acres (Hectare)
AcftHdg			AcftHdg
Speed			Speed

Setup Tasks

Setup tasks assume you are in setup mode. If you are in swath guidance mode press menu (at right) to switch to setup mode. If you previously set a mark, pressing menu displays '(Return) To Mark'— press menu again to cancel guidance to the mark and switch to setup mode.

Select setup values

Dim - Set lightbar brightness (1% to 100%)
 LBar - Set crosstrack sensitivity (1 [most sensitive] to 10 [least sensitive])
 Units - Change units
 Disp 1 through Disp 4 - Set display field
 UTC - Set UTC offset (to display correct local Time value on GPS menu)



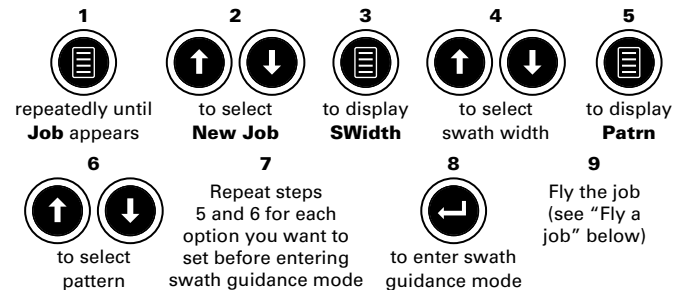
Restore factory defaults



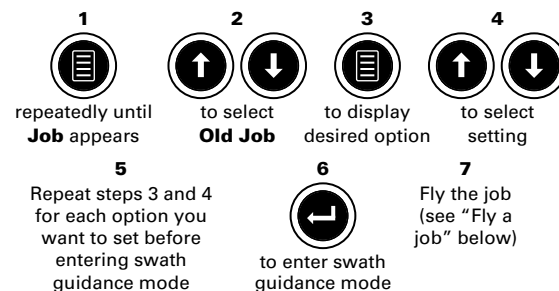
Job Tasks

On power up, the Job menu appears; thus, when starting or resuming/repeating a job at power up, start with step 2 for both procedures below.

Start a new job

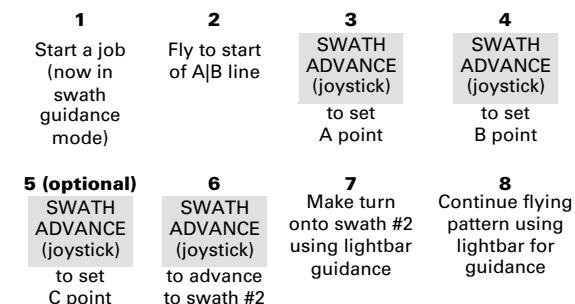


Resume/repeat an old (previous) job



Fly a job

Note: Spraying/logging steps not shown below; when flying a job, follow your own spraying/logging procedures.



Data Tasks

View GPS data

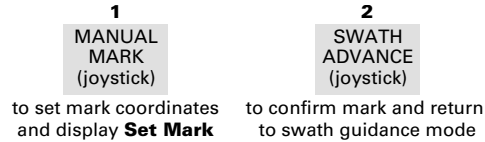


Export log files to a USB drive



Mark Tasks

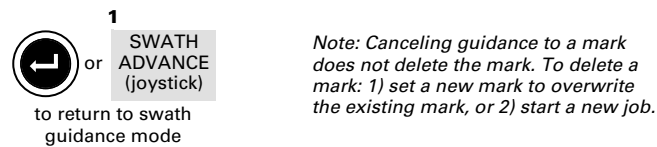
Set a mark



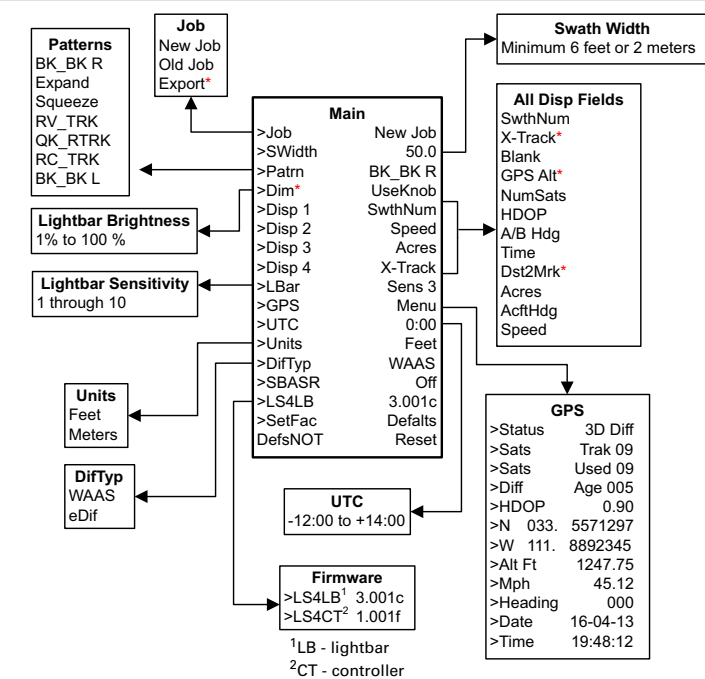
Return to a mark



Cancel guidance to a mark

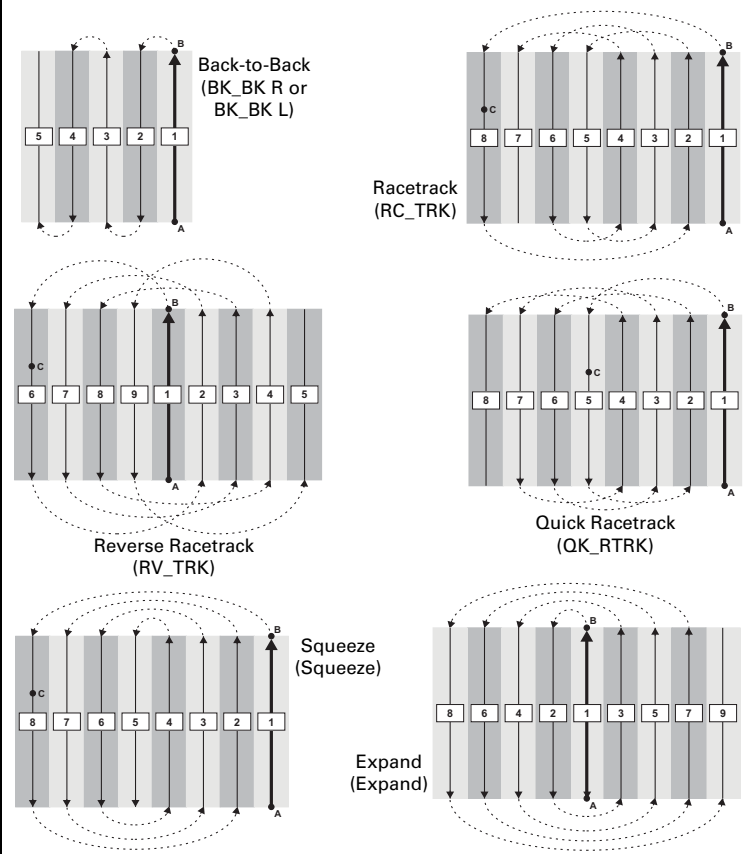


Setup Menu Map



*Note: If Dim is set at or below 100%, the set value appears on the main menu; otherwise, the main menu shows UseKnob (as shown above). The Export option is available only after 1) inserting a USB drive in the controller, and 2) logs are available for export. X-Track, GPS Alt, and Dst2Mrk are available for display only in the far left (Disp 1) and far right (Disp 4) fields on the lightbar.

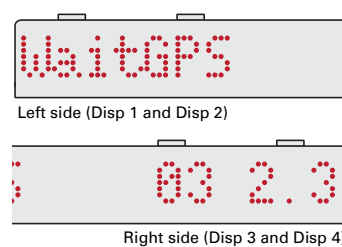
Pattern Types



Troubleshooting

When LiteStar IV generates a warning, flashing LEDs and/or additional error information replace your active guidance display.

Lightbar Display

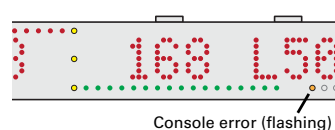
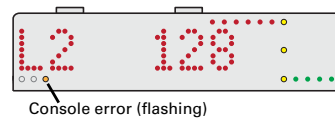
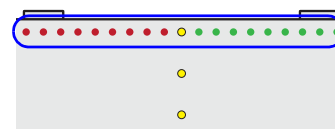


Warning Message

Acquiring/re-acquiring a GPS signal

Upon 1) losing your GPS signal in guidance mode, or 2) when changing your DGPS source (WAAS to e-Dif or vice versa) in setup mode, LiteStar IV attempts to acquire/re-acquire the signal. During this time, the lightbar displays:

- 'WaitGPS' in Disp 1/Disp 2
- Number of tracked satellites in Disp 3 (03 at left)
- Horizontal dilution of precision (HDOP) in Disp 4 (2.3 at left)



For the error condition persists, Satloc recommends power cycling the controller, exporting log files, or starting a new job.