LECTROTAB

Joystick LED Trim Tab Control

Lectrotab's Joystick LED control incorporates features requested by boat owners to provide a user-friendly control for a more enjoyable boating experience.

- Single "Joystick" control
- NMEA 2000 compatible
- LED display of each trim tab position

JLC-11

FEATURES

- Microprocessor based trim tab control with LED tab position indicators
- NMEA 2000 compatible with JLC-NMEA adapter (sold separately)
- Move both tabs up or down simultaneously with a single motion
- Dual station ready – just add a second JLC-11 and JR-* cable (sold separately), * = cable length
- Automatic return to last tab position if ignition key is turned off and back on again
- Completely sealed, completely waterproof and will not deteriorate in sunlight
- Automatic tab retraction and calibration with key or accessory switch off
- Easy upgrade from any of our Lectrotab controls
- No external power module required
- LED tab position indicators dim automatically in darkness and brighten in sunlight
- Single or Dual Actuator per tab
- Operates on 12 or 24 volt dc systems

PRELIMINARY SPECIFICATIONS

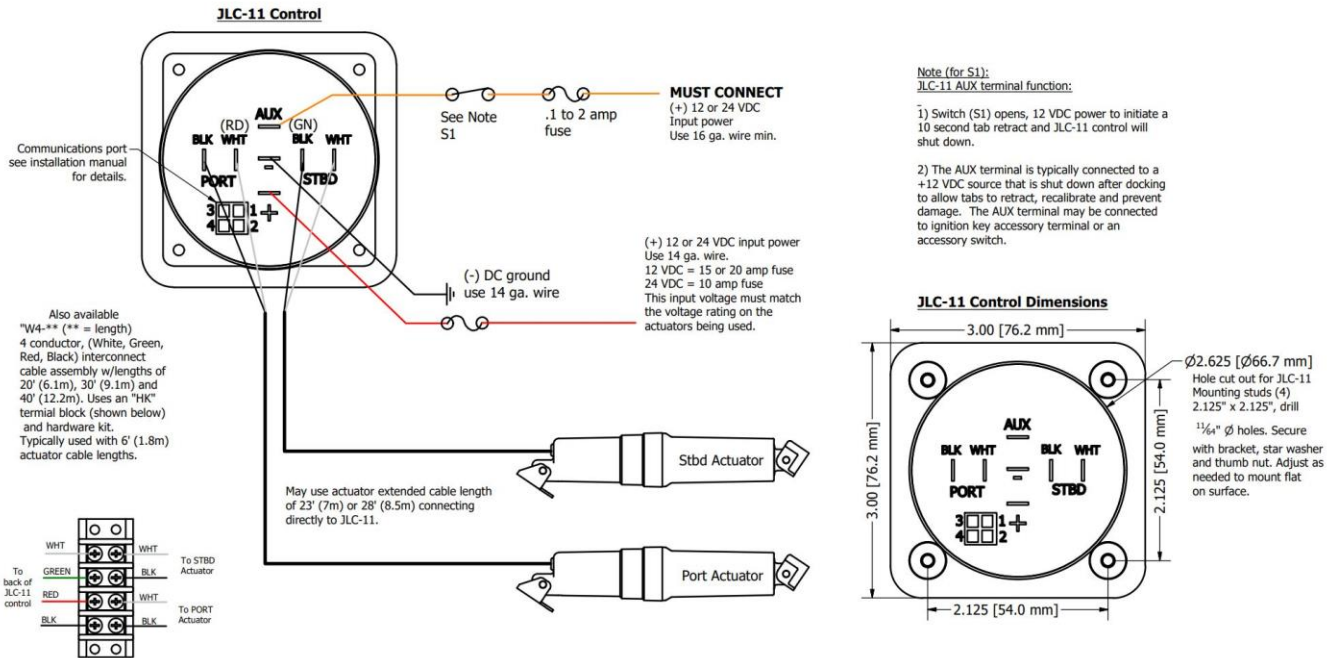| Model Number	Display Color	Number of Stations/Actuators	Overall Width	Overall Height/ Thickness	Mounting Hole Cutout (Diameter)	DC Voltage	Fuse Size Power Input (1 Actuator per Tab)	Fuse Size Aux.(MUST CONNECT)
JLC-11	Black	Single or Dual Station/ 1 or 2 Actuator/tab	3.0"/ 77mm	3.0"(77mm)/ 2.0"(50mm)	2.625"/66.7mm	12/24	12vdc = 15 or 20 amps 24vdc = 10amps	1 to 2 amp

LECTROTAB

JLC-11 WIRING and DIMENSIONS

"JLC-11" Control Installation/Wiring Diagram

JLC-11 Control

Communications port — see installation manual for details.

(RD) (GN)
AUX
BLK WHT BLK WHT
PORT STBD
3 □□ 1 +
4 □□ 2 -

See Note S1

.1 to 2 amp fuse

MUST CONNECT
(+) 12 or 24 VDC Input power
Use 16 ga. wire min.

Also available "W4-**" (** = length) 4 conductor, (White, Green, Red, Black) interconnect cable assembly w/lengths of 20' (6.1m), 30' (9.1m) and 40' (12.2m). Uses an "HK" termial block (shown below) and hardware kit. Typically used with 6' (1.8m) actuator cable lengths.

(-) DC ground use 14 ga. wire

(+) 12 or 24 VDC input power
Use 14 ga. wire.
12 VDC = 15 or 20 amp fuse
24 VDC = 10 amp fuse
This input voltage must match the voltage rating on the actuators being used.

WHT — WHT
GREEN — BLK   To STBD Actuator
RED — WHT
BLK — BLK   To PORT Actuator
To back of JLC-11 control

Stbd Actuator

Port Actuator

May use actuator extended cable length of 23' (7m) or 28' (8.5m) connecting directly to JLC-11.

Note (for S1):
JLC-11 AUX terminal function:

1) Switch (S1) opens, 12 VDC power to initiate a 10 second tab retract and JLC-11 control will shut down.

2) The AUX terminal is typically connected to a +12 VDC source that is shut down after docking to allow tabs to retract, recalibrate and prevent damage. The AUX terminal may be connected to ignition key accessory terminal or an accessory switch.

JLC-11 Control Dimensions

3.00 [76.2 mm]
3.00 [76.2 mm]
2.125 [54.0 mm]
2.125 [54.0 mm]

Ø2.625 [Ø66.7 mm] Hole cut out for JLC-11 Mounting studs (4) 2.125" x 2.125", drill 11⁄64" Ø holes. Secure with bracket, star washer and thumb nut. Adjust as needed to mount flat on surface.

AUX
BLK WHT BLK WHT
PORT STBD
3 □□ 1 +
4 □□ 2 -

JLC-11   Programming Chart

Function	Program Mode Sequence			Range	Default	Program Details
	Enter	Adjust Setting	Exit			
Timing	Push & hold joystick left	Move and hold Joystick Up or Down	Push joystick right and hold 4 seconds +	4 - 12sec	8sec	8 LEDs = 8 second actuator 4 LEDs = 4 second actuator
Remember Last Tab Position	Pull & hold joystick back	Move and hold Joystick Up or Down	Push joystick right and hold 4 seconds +	Standard/Remember	Standard	8 LEDs each side = Standard Retract 1 LED each side = Remember Last Tab Position
Swap LED's	Push & hold joystick right	Move and hold Joystick Up or Down	Push joystick right and hold 4 seconds +	LEDs match tab movement or opposite tab movement	LEDs match tab movement direction	1 LED on right and left = LEDs follow and match tab movement direction 8 LEDs on right and left = LED follow opposite of tab movement direction
Disable Auto Tab Retract	Push & hold joystick forward	Move and hold Joystick Up or Down	Push joystick right and hold 4 seconds +	Enable/Disable	Enabled	#1 LED each side = Default of Auto Tab Retract enabled #8 LED each side = Auto Retract Disabled
Independent Tab Control	Push & hold joystick 45° towards upper left position (between top and left position)	Move and hold Joystick Up or Down	Push joystick right and hold 4 seconds +	Enable/Disable	Disabled	#1 LED each side = Default Disabled or tabs do not operate independently #8 LED each side = Tabs operate independently

Programming Details:

Timing: #LEDS lit corresponds to the # seconds in actuator stroke time. i.e. 8 LEDs = 8 seconds, 6 LEDs = 6 seconds, 4 LEDs = 4 seconds (Actuators A & B series = 8 seconds, C & D series = 4 seconds, and S series = 6 seconds)

Remember Last Tab Position: If AUX power is switched from +12 or 24vdc to 0vdc, tabs retract (Set Timing + 1 sec.). When power is reapplied, tabs go to last position before key sw. off. Removing +12 or 24vdc power source will reset original setting back to fully retracted and keep fully retracted at new power source on. (8 LEDs on each side = standard auto retract and no last setting. 1 top LED on each side = remember last tab position before AUX power off.)

Swap LEDs: 1 LED on right and left side = LEDs follow and match tab direction. 8 LEDs on right and left side = LEDs follow opposite of tab direction

Disable Auto Tab Retract: *Note* this program mode does not require +12vdc to the AUX terminal. Press the All UP and ALL DWN buttons at same time for 2 sec. Press the STBD Bow Down/Up to adjust between Enable and Disable. (#1 LED each side = Default of Auto Tab Retraction enabled. #8 LED each side = Auto Retract Disabled). Press the Port Bow Up to exit program and save setting.

Independent Tab Control: 1 LED on right and left side = Tabs do not operate independently, 8 LEDS on right & left side = Independent control of each tab.