



Effective June 2024 This guide supersedes all previous versions

3842 Redman Drive Fort Collins, CO 80524 MODEL COVERED: TFB-V5

1-800-797-7974 www.CommandLight.com

THANK YOU

Please allow us to express a simple thank you for investing in a *COMMAND LIGHT* product. As a company, we are dedicated to producing the very best and most versatile flood lighting package available. We take great pride in the quality of our work and hope that you will find many years of satisfaction from the use of this equipment.

Should you have any problems with your product please do not hesitate to contact us.



3842 Redman Drive Fort Collins, CO 80524

PHONE: 1-800-797-7974 FAX: 1-970-297-7099 WEB: www.CommandLight.com



▲ WARNING Read this manual before installing or operating the *TRAFFIC FLOW BOARD*. Save this guide for future reference.

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COMMAND LIGHT 5 YEAR LIMITED WARRANTY

COMMAND LIGHT products* come with an industry leading 5-year warranty against any defects in materials and workmanship when used and operated for a period of five years. The responsibility of *COMMAND LIGHT* under this limited warranty is limited to the repair and replacement of parts found to be defective by *COMMAND LIGHT*.

Any parts damaged in shipping or by improper installation, overloading, abuse, or accident of any type or cause are not covered by this warranty. If equipment has been damaged in transit, a claim should be made against the carrier within three days, as we assume no responsibility for such damage.

If during this time period, you have any malfunctions not related to misuse, accident, neglect, or normal wear and tear, please take the following steps in order to have your light tower serviced under the *COMMAND LIGHT* warranty.

1. Contact us immediately for initial diagnosis at **info@commandlight.com** or **800-797-7974**; or if parts are needed contact **parts@commandlight.com**.

2. You will need to have immediate access to the light tower and the serial number. This process can be done by individuals with little mechanical ability. (Involves pushing buttons and telling us what the light tower is doing or not doing)

3. We then send parts (if needed) and have an authorized technician dispatched (if needed) with a written work authorization number and a base number of hours allotted to do repair. Hourly rates for service are to be determined at the time of authorization by *COMMAND LIGHT*, travel time is paid at a maximum of 50% of the authorized service rate.

4. We remain available for service support via phone, email, or video conference while the technician completes the repair, also to extend the original time allotted if additional issues arise. Immediate support cannot be guaranteed unless a time is scheduled prior to service.

5. Let us know when the repair is completed and reference the work authorization number. Email an invoice to **info@commandlight.com** or **parts@commandlight.com**. If you are unable to create an invoice email us for instructions for payment. Make sure any parts we have requested to be returned have been shipped back to the provided shipping address. If a return label is issued it must be used.

6. Finally, we will pay by mailing a check or crediting the account of the person, department, or company doing the repair. Payments will not be made until all requested parts have been returned.

Please contact us as soon as problems arise in order to execute our warranty. We must have knowledge of the issue and provide a work authorization in order to pay or reimburse labor or travel time.

Any unauthorized service voids this warranty. No work is authorized until written consent is provided by *COMMAND LIGHT*.

Contact Us Early — before any work is done — We'd love to help!

*Excludes light producing components (bulbs, lasers, LEDs) These components may come with their own manufacturer warranty. Contact us and we can help get it.

Breakage or Damage During Shipment

The transportation company is fully responsible for all shipping damage and will resolve problems promptly if you handle it correctly. Please read these instructions carefully.

Examine the contents of all shipping cases. If you find any damage, call your transportation agent at once and have them make a description on the freight or express bill describing the damage and the number of pieces. Then contact us and we will send you the original bill of lading. Also promptly contact the transportation company and follow their procedure for filing a claim. Each company will have a unique procedure to follow.

Please note, we cannot and will not enter claims for damages. If we filed a claim here, it would be sent to your local freight agent for verification and investigation. This time can be saved by you filing the claim directly. Every consignee is on the ground floor, in contact with the local agent who inspects the damaged goods, and thus, each claim can be given individual attention.

Since our goods are packed to comply with the regulations of all railroad, truck, and express companies, we cannot allow deduction from any invoice because of any damage, however, be sure to file your claim promptly. Our goods are sold F.O.B. factory. We take receipt from the transportation company certifying that the goods were delivered to them in good order and our responsibility ceases.

It is seldom that any breakage or damage occurs in any of our shipments and in no case will the customer be out any expense if they follow the above instructions.

Be sure to keep all damaged goods subject to examination of the truck or express company inspector, who may call on you sometime later. These damaged goods, of course, will belong to them, and they will inform you what to do with them. If you dispose of these damaged goods, your claim may not be paid.

General Description and Specifications

The *COMMAND LIGHT TRAFFIC FLOW BOARD* LIFT is designed to provide the means to elevate a high-intensity arrow board for emergency scene traffic direction with quick precision. As with any electromechanical device, take precautionary steps to assure safe operation

WARNING Never operate the TRAFFIC FLOW BOARD near overhead power lines.

Power for the 12 VDC circuitry is provided by the emergency vehicle battery system. All mechanical actuation power is designed to be powered by the vehicles 12 VDC power supply. The umbilical corded control unit is powered via 12 VDC eliminating hazardous voltage levels within the hand held control box.

The *COMMAND LIGHT TRAFFIC FLOW BOARD* is manufactured to provide years of service with a minimum of maintenance.

WARNING

Product Safety Precautions

- Never operate the *TRAFFIC FLOW BOARD* near overhead high voltage power lines. The *TRAFFIC FLOW BOARD* is manufactured from electrically conductive materials.
- Do not use the *TRAFFIC FLOW BOARD* for uses other than its intended purpose.
- O not move emergency vehicle with the light extended. Visually verify that the light is completely nested before moving vehicle.
- Do not change light position while people are located
 within its operating envelope. There are numerous pinch points that can cause serious bodily injury.



- The *TRAFFIC FLOW BOARD* contains automatic reset circuit breakers. Disconnect power at the distribution panel before servicing the unit.
- \odot Do not use a high-pressure washer or subject the light to high volumes of water when cleaning.
- Never use the *TRAFFIC FLOW BOARD* as a lifting device or mobile arm.

- Do not use a *TRAFFIC FLOW BOARD* that has been damaged or is not fully functional, including non-working indicator lamps.
- ◎ Never hold any part of the *TRAFFIC FLOW BOARD* with a hand or foot while it is in motion.
- The *TRAFFIC FLOW BOARD* has numerous pinch points. Keep loose clothing, hands and feet clear of moving parts.



○ Operating *TRAFFIC FLOW BOARD* on an inclination of 11 degrees or more can cause a malfunction or no function at all. It can also cause damage to the *TRAFFIC FLOW BOARD* itself, to the vehicle and to personnel.



Operation

Raising the TRAFFIC FLOW BOARD from the nested position:

Use the control box to raise the *TRAFFIC FLOW BOARD* to the maximum height. Control unit switches are of momentary action style and must be held in the "ON" position to activate the unit. Once motion has started, the switch may be released. Motion will proceed until max height is reached, the down switch is activated or the emergency stop button is pressed.

• The *TRAFFIC FLOW BOARD* has an override system that prevents rotation of the board until it is at the maximum height.

Returning the TRAFFIC FLOW BOARD to the nested position:

The *TRAFFIC FLOW BOARD* is equipped with an auto-park function as a standard feature. Holding the movement control switch in the down position for 1 second initiates auto-park. Once motion has started, the switch may be released and motion will proceed until nested. Auto-park can be initiated while the *TRAFFIC FLOW BOARD* is in any rotated position. The controller indicates a red light when the *TRAFFIC FLOW BOARD* is out of nest, and a green light when the *TRAFFIC FLOW BOARD* is fully nested. Auto-park sequence is as follows:

- 1. Arrow board rotates to the center position.
- 2. Once the board is centered, rotation stops and the carriage retracts.
- 3. Board is fully nested, red light on controller turns off, green light turns on.

At any point, the auto-park sequence can be cancelled by pressing the motion control switch up or Emergency Stop Switch



Lower Override

In the event of sensor, rotation motor, or auto-park failure, a backup override is programmed into the *TRAFFIC FLOW BOARD* to allow for nesting board. Rotate the board to center as best as able. This can be done by hand if rotation motor has failed, but take care to apply pressure slowly to prevent damage to components. While a helper holds the board to the center position, at the controller, hold the Motion Control Switch in the down position while also holding the Emergency Stop Switch **(**). After 5 seconds of holding both switches, the board will retract. Motion can be stopped by releasing either switch. To re-initiate motion, hold both switches for 5 seconds again. Lower the board until it is nested enough for safe travel and able to be brought in for service.

Installation ACAUTION

The *TRAFFIC FLOW BOARD* must be installed by a designated installation facility by qualified personnel only. All safety precautions must be thoroughly understood before installation. Please consult the factory for additional installation information assistance.

Installation Kit

Included with the *TRAFFIC FLOW BOARD* is an installation kit. Verify that the contents of the kit include the following items:

- (1) Pre-wired control unit with pocket
- (1) Control box
- (2) Cables (Both are hardwired to the relay box)
- (1) 20 conductor 22 gauge wire 50ft. (gray)
- (1) 2 conductor 6 gauge wire, 50ft. (black/red)

Tools Required

Drill 15/64"drill bit 1/8" drill bit #4mm hex wrench 10mm wrench ½ wrench

Installation Notes

ACAUTION The *TRAFFIC FLOW BOARD* weighs approximately 150 pounds. Use mechanical assistance (such as crane or forklift) to position the *TRAFFIC FLOW BOARD* for installation. Use a sling to grasp the *TRAFFIC FLOW BOARD*. When routing the connecting electrical wires, take care to avoid sharp bends, hot components or other hazards to the wire.

The *TRAFFIC FLOW BOARD* is not designed to be operated in a raised position while the vehicle is in motion. *The TRAFFIC FLOW BOARD* includes warning circuit wiring to enable a warning device (located in the control holster).

Location Requirements

The *TRAFFIC FLOW BOARD* frame can be mounted on any location that is 12" x 43.5". The surface should be flat. A minimum depth of 43" is required.

(8) Eight mounting bolt holes are required.

The control box should be mounted in an area shielded from the weather. Allow a minimum of 10" clearance above the control box mounting location to permit easy removal of the hand controller

NOTE: Failure to provide access to at least one of the service panels on the side of the *TRAFFIC FLOW BOARD* may result in extended service time and may require removal of the unit. This additional time is not covered under the *COMMAND LIGHT* 5 year limited warranty.

Mounting

The **TRAFFIC FLOW BOARD** is

packaged with lift brackets mounted to each side. These are only used for installation and will be removed before after installation is complete.

Attach any necessary lifting attachments to the unit. Lift and place the *TRAFFIC FLOW BOARD* into position above the installation pocket. Make sure to feed all cables through the installation pocket and access hole before lowering the *TRAFFIC FLOW BOARD* into place.



Lower the *TRAFFIC FLOW BOARD*

into place and confirm that the mounting brackets will sit flush on the exterior surface. Also confirm that all mounting bracket holes have a mounting surface beneath them. Remove any obstructions below the mounting surface such as headliners before drilling mounting holes. Drill 15/64" holes in the mounting surface using the mounting bracket holes as a template.

Use the foam insulating tape to surround the edge of the installation pocket to create a water-resistant seal. Remove any lifting straps and devices from the lift.

After the installation of the mounting brackets, remove the lifting brackets with a ¹/₂" wrench. Locate and drill wire feed holes as necessary.

Control Box Holster Mounting

Using the pocket as a template, mark hole locations.

Drill 1/8" mounting holes. Drill any holes required to route the control wire from the control box holster to the *TRAFFIC FLOW BOARD* unit.

Electrical Wiring

Run the control wire from the TRAFFIC FLOW BOARD to the Control Box Holster.

Run the power wire from the vehicle 12VDC power source or generator to the *TRAFFIC FLOW BOARD*. A 15 Amp breaker is recommended for the *TRAFFIC FLOW BOARD*.

Refer to wiring schematic to assist in identifying connections.

Warning Device Installation

The nest sensor can be used to activate a warning device when the light is extended. To connect such a device, determine whether it is activated when it receives 12 VDC or when it receives a path to ground. The connector for hooking up a warning device is located in the holster box that holds the control unit.



Technical Specifications – Standard AC Models (415A)

		1		
		Height(Depth)	Length	Width
Retra	cted	26"	44"	12"
Exten	ded	42"	44"	12"
Reces	sed installation	26"	42 1/2 "	12" Minimum
Weight: 1	50 pounds			
Wiring:				
1	2 VDC 50 ft 6/2	2 cable		
Control	wiring 50 ft 22	/20 cable		
Comma	and Light recommends	using 6 gauge wire f	for input power	r.
Relay protection	on:			
E	Electrical Cole-H	ersee 3055 15.	Amp	
Current Drew	/ Power Pequirement	ta•		
F	Full load current draw	15 amps at 12VDC		
-		10 umps ut 12 + 2 c		
Motor Duty C	ycle:			
(.	All motors thermally p	rotected, specificatio	ons are to therm	nal relay trip):
I	Lift motor 1:3 (90	seconds maximum p	per 5 minute)	
ŀ	Rotation motor 1:3 (90	seconds maximum p	ber 5 minute)	
Motor Speed:				
Carriage	0.5 inches per min	ute	5 seconds t	to full extension
Rotation	1.6 1250 RPM		15 seconds	
Auto Park	20 seconds from fu	Ill extension and at		
	350 degree rotation	n position		
Onoration				
Operation:	Angle of vehicl	e 10° maximi	ım incline	
	ingle of venice			
Wind load:				
	Design maxim	um 75 mph		
	Maximum test	ed 85 mph		
		ma auhiost to show		ico
	Specificatio	ons subject to chang	ge without not	ice.

Dimensions (with strobe and ¹/₂" mounting spacers) – May vary by model:



Exploded Views and Parts List: Arrow Board



Control Array

Surround: Parts List

			PARTS LIST
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	076-30043	COVER, FRONT, LOWER, TFBV5
2	1	076-30047	BASE, SURROUND, TFBV5
3	1	076-30048	SURROUND, FRAME, TFBV5
4	1	076-30049	COVER, FRONT, SURROUND, TFBV5
5	1	076-30075	PAN, INSTALLATION, LOWER, TFBV5
6	1	076-30044	COVER, ACCESS, CONTROL ARRAY, TFBV
7	2	076-30056	MOUNT, ANGLE, FRONT-REAR, TFBV5
8	2	076-30059	HANDLE, LIFT, DISPOSABLE, TFBV5
9	2	076-30079	MOUNT, ANGLE, 2, STD, TFBV5-7
10	4	069-01120	SCREW, BH, HEX, 8x1.25x20, SS
11	2	069-01116	SCREW, FHSH, M8x1.25x16
12	8	069-01115	SCREW, FHSH, M8x1.25x20
13	4	069-01106	SCREW, BH, HEX, 8x1.25x12, SS
14	18	069-01103	SCREW, BH, HEX, 6x1x12, SS
15	4	069-01119	WASHER, LOCK, SPRING, REGULAR, M8, SS
16	4	069-01113	Nut, MS, MM8x1.25
17	8	069-01107	SCREW, BH, HEX, 8x1.25x16, SS
18	2	STD HARDWARE-80	SCREW, PHP, 10-24 UNCx2.5
19	4	034-10977	WASHER, FLAT, SAE, #10, SS
20	2	034-13100	NUT, MS, HEX2, 10-24UNC, SS
21	1	065-12852	STRAIN RELIEF, DOMED, SCR .2447, 1/2 NPT, BLACK
22	2	065-12875	STRAIN RELIEF, DOMED, RCR .0824, 3/8 NPT, BLACK
23	1	065-12856	LOCKNUT, NYLON, 1/2 NPT, BLACK
24	2	065-12831	LOCKNUT, NYLON, 3/8 NPT, BLACK
25	1	076-30050	COVER, TOP, SURROUND, TFBV5



DESCRIPTION	WASHER, FLAT, FENDER, 5/16, SS	KEY,SPINDLE,TFBV	CHANNEL, WIRE, TFBV2	CRADLE, SIGNAL BOARD, TFBV2	SPACER, CRADLE, REAR, TFBV	SPACER, CRADLE, FRONT, TFBV	SCREW, HH, M8x1.25x120, SS	WASHER,LOCK,SPRING,REGULAR, 5/16 , SS	SCREW, FHSH, M8x1.25x40	SENSOR, PROXIMITY, STRAIGHT, APS4-12S-E2	SCREW, PHP,6-32 UNCx0.375	MOTOR, WINDOW LIFT MOTOR 742-119, TFBV2	SCREW,HH,1/4-20x2-3/4,SS	PLATE, MOTOR, WINCH, TFBV	SCREW,HH,1/4-20x2,SS	Nut, MS, MM10x1.50	SCREW, BH, HEX, 10x1.5x20, SS	SCREW,HH,1/4-20x1-1/4,SS	NUT,NYLOCK, 1/4-20 UNC,SS	GEAR, INTERNAL, SPOOL, TFBV	SPOOL,LIFT WINCH,TFBV7,R2	PLATE, OUTER, WINCH, TFBV	BLOCK, SENSOR STOP, TFB V SERIES	SCREW, SHCS, SHCS M6x1x25	SCREW,BH,HEX,6x1x12,SS	CLAMP,LOOM,#6,SS	SPACER,WIRE TRACK,TFB_V2	SCREW,BH,HEX,8x1.25x40,SS	10-32 UNF x 1/2 SH Set Screw SS	BELT, HTD 4505M15, ROTATION, TFBV	STRAP,WINCH,LIFT,TFBV	WASHER, FLAT, SAE, #6, SS	SPRING PIN,SLOTTED,1/16 × 1/2,SS
PART NUMBER	034-11052	076-30040	076-29998	076-29997	076-29989	076-29990	069-01122	034-11053	069-01117	065-10081	034-13696	069-01002	034-13692	076-29980	034-11021	069-01112	069-01100	034-11018	034-11033	076-29978	076-29981	076-29979	076-29987	069-01137	069-01103	065-12365	076-29996	069-01109	076-30027A	069-01008	069-01011	034-13681	034-11198
QTY	1	1	1	-	1	1	3	3	4	1	1	-	2	1	2	3	3	1	2	1	1	1	1	2	9	4	1	1	2	1	1	1	9
ITEM	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
ESCRIPTION	IAGE,MAIN LIFT,TFBV2	PIN,5/32 x 3/4, SS	;,SUPPORT BEARING,TFBV2	ER,FLAT,USS, 5/16 , SS	VG,6300 Sealed	TRAVERSE RAIL, TFBV2	BH,HEX,10x1.5x25,SS	BH,HEX,8x1.25x25,SS	3H,HEX,8x1.25x50,SS	MM8x1.25	RGE,M12	MM12x1.75	HCS,SHCS M8x1.25x30	3EARING, INNER, TFBV2	PROXIMITY, 90 DEGREE, APS4-12M-E2	HP,6-32 UNCx0.5	RANSMOTEC, PDS4265-12-864-BF	JRIVE, TFBV2	H,HEX,4x0.7x12,SS	OTATION MOTOR, TFBV	JJUSTER, DRIVE BELT, TFBV2	BELT TENSION, TFBV2	IOULDER, M8x1.25x12mm	BH,HEX,8x1.25x16,SS	R,LOCK,SPRING,REGULAR, M8, SS	T,ROLLER,WINCH,TFBV2	(,WINCH,IDLER,TFBV2	,BH,HEX,8x1.25x45,SS	,BH,HEX,8x1.25x12,SS	,BEARING,SPINDLE,TFBV2	g, Flanged, Bronze, FB1620-8, 1 ID	LE, ROTATION, CARRIAGE, TFBV2	:Y,DRIVEN,ROTATION,TFBV2
	CARR	ROLL	PLATE	WASH	BEARII	BLOCK	SCREW,	SCREW,	SCREW,I	Nut, MS,	FOOT,LA	Nut, MS,	SCREW,S	SPACER, I	SENSOR,	SCREW, P	MOTOR,1	PULLEY,D	SCREW,B	COVER,R	SLIDE, AE	ROLLER,	BOLT,SH	SCREW,	WASHE	.NNOW	ROLLER	SCREW	SCREW	BLOCK	Bushin	SPIND	PULLE
PART NUMBER D	076-30012 CARR	034-13079 ROLL	076-30011 PLATE	034-13695 WASH	069-01006 BEARI	076-30010 BLOCK	069-01101 SCREW,	069-01120 SCREW,	069-01111 SCREW,I	069-01113 Nut, MS,	069-01013 FOOT,LA	069-01124 Nut, MS,	076-29985 SCREW,S	076-30007 SPACER,I	065-10057 SENSOR,	034-11147 SCREW,P	069-01015 MOTOR,1	069-01010 PULLEY,D	069-01102 SCREW,B	076-30037 COVER,R	076-30031 SLIDE,AC	076-30033 ROLLER,	069-01129 BOLT,SH	069-01107 SCREW,	069-01119 WASHE	076-30004 MOUN	076-30003 ROLLER	069-01110 SCREW	069-01106 SCREW	076-30018 BLOCK	069-01009 Bushin	076-30019 SPIND	076-30027 PULLE
QTY PART NUMBER D	1 076-30012 CARR	1 034-13079 ROLL	4 076-30011 PLATE	19 034-13695 WASH	14 069-01006 BEARI	2 076-30010 BLOCK	8 069-01101 SCREW,	13 069-01120 SCREW,	4 069-01111 SCREW,I	11 069-01113 Nut, MS,	2 069-01013 FOOT,LA	2 069-01124 Nut, MS,	6 076-29985 SCREW,S	6 076-30007 SPACER,F	4 065-10057 SENSOR,	3 034-11147 SCREW,P	1 069-01015 MOTOR,1	1 069-01010 PULLEY,D	10 069-01102 SCREW,B	1 076-30037 COVER,R	1 076-30031 SLIDE,AE	1 076-30033 ROLLER,	1 069-01129 BOLT,SH	3 069-01107 SCREW,	1 069-01119 WASHE	1 076-30004 MOUN	1 076-30003 ROLLER	1 069-01110 SCREW	2 069-01106 SCREW	2 076-30018 BLOCK	2 069-01009 Bushin	1 076-30019 SPIND	1 076-30027 PULLE

Carriage Assembly : Parts List



Carriage Assembly : Exploded View

Carriage Frame: Parts List

			PARTS LIST
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	076-30009	BRACE, SIDE RAIL, TFBV2
2	2	076-30008	EXTRUSION, MAIN RAIL, TFBV5
3	4	076-30021	NUT, DOUBLE HOLE, RAIL, TFBV2
4	2	076-30036	BRACKET, CENTERING BLOCK, TFBV
5	6	069-01107	SCREW, BH, HEX, 8x1.25x16, SS
6	8	069-01116	SCREW, FHSH, M8x1.25x16
7	12	069-01119	WASHER, LOCK, SPRING, REGULAR, M8, SS
8	12	069-01113	Nut, MS, MM8x1.25
9	12	069-01120	SCREW, BH, HEX, 8x1.25x20, SS
10	4	069-01115	SCREW, FHSH, M8x1.25x20
11	2	034-13695	WASHER, FLAT, SAE, 5/16 , SS
12	1	076-30001	SUPPORT, ROLLER, INTERMEDIATE, TFBV
13	1	076-30000	ROLLER, LIFT STRAP, TFBV2
14	1	069-01104	SCREW, BH, HEX, 8x1.25x10, SS
15	1	069-01110	SCREW, BH, HEX, 8x1.25x45, SS
16	2	076-30007	SPACER, BEARING, INNER, TFBV2
17	2	076-29999	MOUNT, BEARING, CENTERING, TFBV2
18	2	069-01044	BEARING, ROLLER, CENTERING, TFBV
19	2	076-29985	SCREW, SHCS, SHCS M8x1.25x30
20	2	076-30081	BRACKET, SENSOR BOLT, TFBV2
21	2	076-30080	PLUNGER, DOWN LIMIT, TFB V5/V7
22	2	SS_Plunger_Spring	SPRING, PLUNGER, UP/DOWN LIMIT
23	2	034-11165	SCREW, PHP, 8-32 UNCx0.25
24	2	034-10947	WASHER, FLAT, SAE, #8, SS
25	2	034-10977	WASHER, FLAT, SAE, #10, SS

Carriage Frame: Exploded View



Wiring



