Installation and Operation Instructions
LED UTILITY BARS

ECCO®

ECCO LED Utility Bars are designed to provide superior lighting performance and withstand the harshest environments. Available in various lengths, LED wattages, and with either flood, spot or combination beam patterns. These robust, high output lights feature the latest LEDs and reflectors designed for maximum light projection. The coated die-cast aluminum housing is fully sealed for protection against water ingress, vibration, shock and impact. Two (pivoting) mounting methods are included, choose from heavy duty side-mounted pedestal brackets or bottom-mounted carriage bolts. Additional benefits of LED technology include a bright white beam, low current consumption and a long, maintenance free service life. This manual provides information about installation, function, safety, maintenance, replacement parts, and warranty.

IMPORTANT! Read all instructions before installing and using. Installer: This manual must be delivered to the end user.

⚠ **WARNING!**

Failure to install or use this product according to manufacturer's recommendations may result in property damage, serious bodily/personal injury, and/or death to you and those you are seeking to protect! Check wattage before installing light to avoid possible equipment damage.
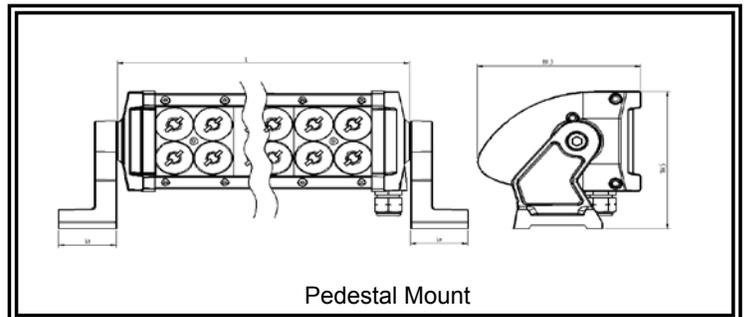

Do not install and/or operate this safety product unless you have read and understand the safety information contained in this manual.

1. Proper installation combined with operator training in the installation, use, care and maintenance of vehicle equipment accessories is essential to ensure the safety of you and those you are trying to protect.
2. Exercise caution when working with live electrical connections.
3. This product must be properly grounded. Inadequate grounding and/or shorting of electrical connections can cause high current arcing, which can cause personal injury and/or severe vehicle damage, including fire.
4. Proper placement and installation are vital to the performance of this worklamp. Install this product so that output performance of the system is maximized and the controls are placed within convenient reach of the operator so that s/he can operate the system without losing eye contact with the work area.
5. It is the responsibility of the vehicle operator to ensure during use that all features of this product work correctly. In use, the vehicle operator should ensure the projection of the beam is not blocked by vehicle components (i.e., open trunks or compartment doors), people, vehicles, or other obstructions.
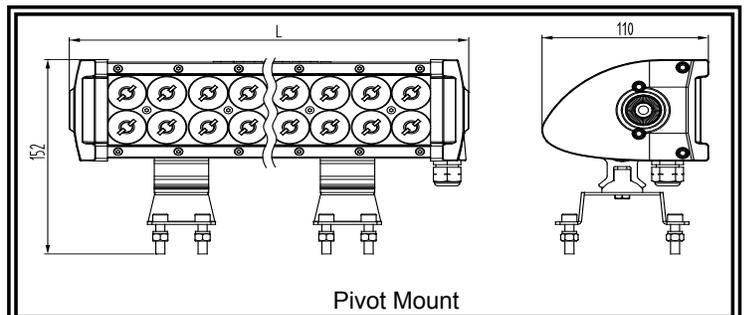6. The manufacturer assumes no liability for any loss resulting from the use of this device.

NOTE: Black die cast Aluminum housing gets very hot to the touch after operating constantly for several hours.

Specifications:

Model	Length	LEDs	Watts	Amps/12 VDC	Amps/24 VDC	Lumens	Fuse Needed
EW3108-F	8"	6	30	3.3	1.1	1680	5
EW3108-S	8"	6	30	3.2	1	1680	5
EW3114	14"	12	60	5.7	2.1	3360	7.5
EW3124	24"	21	105	8.7	3.6	5880	10
EW3136	36"	33	165	13	6.6	9240	15
EW3149	49"	45	225	18.5	7.9	12600	25
EW3208-F	8"	12	60	4.5	2.2	3360	7.5
EW3208-S	8"	12	60	4.7	2.3	3360	7.5
EW3214	14"	24	120	9.3	4.5	6720	15
EW3225	25"	44	220	17.3	8.4	12320	20
EW3233	33"	60	300	25	12	16800	30
EW3242	42"	76	380	32	15.5	21280	40
EW3312-F	12"	6	60	4.4	2.1	3350	5
EW3312-S	12"	6	60	4.4	2.1	3350	5
EW3324	24"	12	120	7.9	3.9	8400	10
EW3336	36"	18	180	12	5.8	12600	15

Pedestal Mount

Pivot Mount

Installation (Pedestal Mount):

1. Attach the bolt through the hole and side bracket using the spring locking bolt. See Figure 1.
2. Select a mounting surface to match the diameter of the included bracket(s).
3. Put the shockproof pad on the mounting plate, then feed the hexagon bolt through the side of the bracket. Put the plain washers and locking spring washer on the bolt, then fasten it. See Figure 2.
4. Connect the power line to the corresponding power connector.
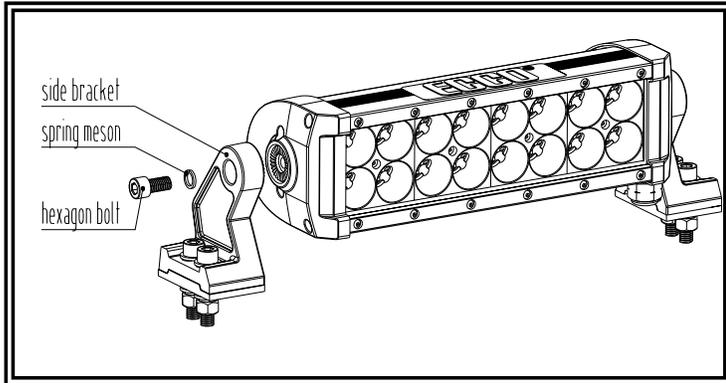5. Adjust beam location of the unit and tighten the lock nut with a wrench.

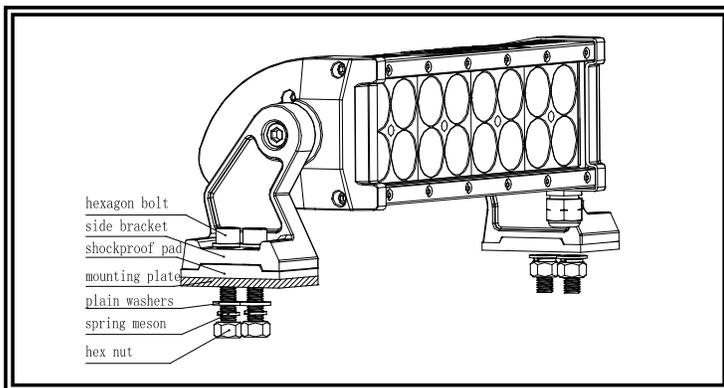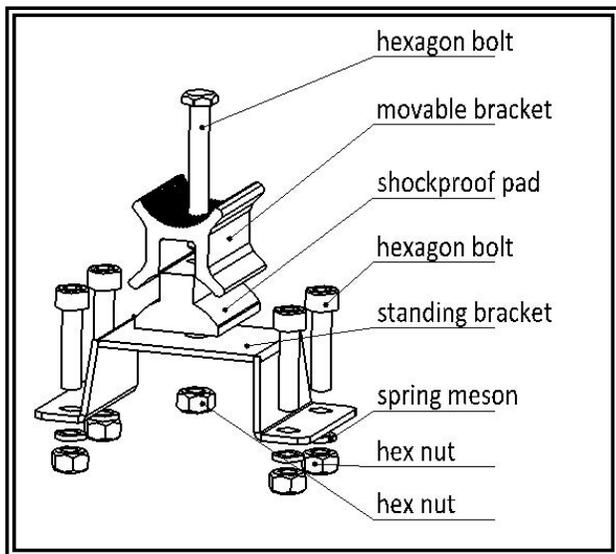## Installation (Pivot Mount):

1. First, put hexagon bolt through movable bracket, shockproof pad and the bracket, then fasten hex nut. See Figure 3.
2. Put two finished brackets into the bottom of bracket round bar, then adjust these two brackets in proper position, then fasten it. See Figure 4.
3. Put hexagon bolt through bracket and mounting plate, then put spring meson, then fasten nut. See Figure 5.
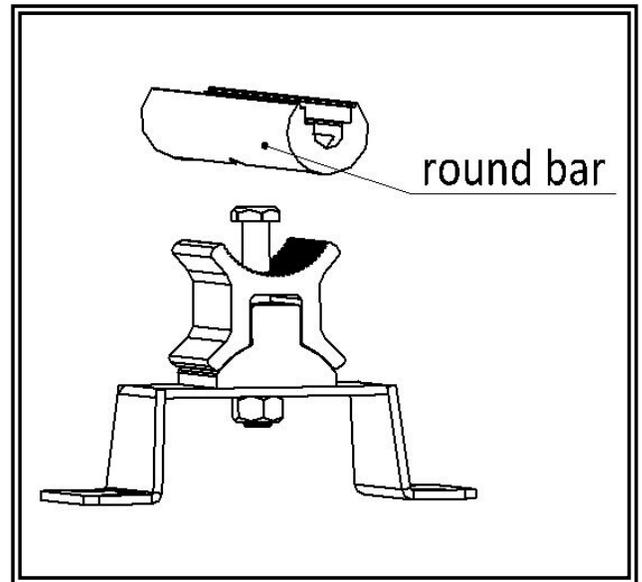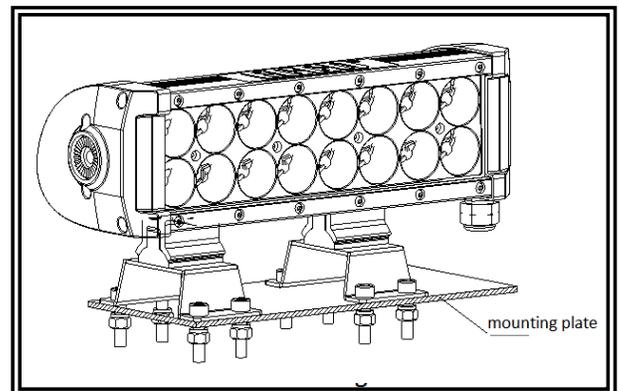4. Connect the power line to the corresponding power connector.

Figure 1

Figure 2

Figure 3

Figure 4

Figure 5

Wiring Instructions:

Black Wire: Ground
Red Wire: Connect to fused power

	Current (A)	From Power Source				
		5'	10'	15'	20'	25'
1 Voltage Drop	10	20 AWG	18 AWG	18 AWG	16 AWG	14 AWG
	20	18 AWG	16 AWG	14 AWG	12 AWG	12 AWG
	30	18 AWG	14 AWG	12 AWG	12 AWG	10 AWG
	40	16 AWG	12 AWG	12 AWG	10 AWG	10 AWG
	50	14 AWG	12 AWG	10 AWG	10 AWG	6 AWG
	60	14 AWG	12 AWG	10 AWG	8 AWG	8 AWG

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