Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

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Email: sales@LarsonElectronics.com
Fax: 903.498.3364

LM-40-4S-EW-TLR

4-Stage Light Mast on 14' Single Axle Trailer - Extends up to 40' - Electric Operation

Product ID: 145900



Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

LM-40-4S-EW-TLR Trailer Mounted 4-Stage Light Tower

Light Mast Specs

Tower Length: 13` to 40`
Mast Head Length: 44"
Capacity: 150 lbs
Materials: Steel
Finish: Powder Coated - Gloss Blue
Operation: (2) 2,500lbs Electric Winches
Cable: 3/16" Galvanized Aircraft Cable
Winch Voltage: 120V or 240V AC 50/60 Hz

Trailer Specs

Materials: Steel
Trailer Dimensions: 14-L` x 6`-W trailer bed
Hitch: 2" Ball Coupler
Wiring: 4-Pin Flat
Axle: 3,500lb
Suspension: 5,400 Lb. 4-Leaf Double Eye Springs
Outriggers: (4) 1,000 Manual Crack Leveling Jacks - Retractable
Wheels: (2) 15" 5x4.5 Steel Rims
Tires: ST205/75/D15 H188
Weight: +-1200 lbs.
Shipping: Common Freight
Shipping Dimensions: ~16.5`-L x 4`-W x 5`-H
Shipping Weight: +-1700 lbs.

Quick Summary

13` to 40` Light Mast
Steel Construction
Powder Coated Finish
Removable Mast Head
(4) 1,000lb Retractable Outriggers
125 mph Wind Resistance
Electric Operation
UL 508A

Special Orders- Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671
Intl: 1-214-616-6180
Fax: 1-903-498-3364

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Options: Length- Mounting-Fixtures/ Call Us for Special Requirements **E-mail:** sales@larsonelectronics.com

This unit is Made In USA - Manufactured in Texas

The Larson Electronics LM-40-4S-EW-TLR trailer mounted fold over 4-stage light mast provides a safe and effective way for operators to quickly deploy lights, security cameras and other equipment to elevations up to forty feet. This light tower folds over for easy transportation, features a rotating boom that allows for 360° of rotation, and a removable mast head for storing mounted equipment when not in use. The entire assembly is mounted onto a 14` single axle trailer, allowing operators to transport this fold over boom from location to location. The LM-40-4S-EW-TLR is raised and lowered via the use of two included 2,500 lbs electric winches.

PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO LIGHT MASTS OR LIGHT TOWERS

This telescoping four stage steel light mast from Larson Electronics is designed to allow operators to quickly and safely deploy lighting, cameras, and other electrical equipment in locations where this equipment must be elevated to heights up to 40` for effective coverage. This light boom can be extended to 40 feet for maximum area coverage and collapsed to 13 feet for applications where a smaller footprint is required. The tower is constructed of square steel tubing with a base section 11.25` in length and 5" x 5" by 3/16" thick, lower section 11.25` in length and 4" x 4" by 1/8" thick, an upper section 11.25` in length and 3" x 3" by 1/8" thick, and a top section 11.75` in length and 2" x 2" by 1/8" thick. Each section has a 15-18" overlap. The mast is elevated using an included 2,500 lbs electric winch with 3/16 inch cable and extended to its full height using a second 2,500 lbs electric winch.



44" Mast Head for mounting lights and equipment
Click Photo to Enlarge



13" by 15" by 1/4" thick mounting base
Click Photo to Enlarge

A 44" wide and 2" by 2" by 1/4" thick mounting plate is attached to the upper section of the mast which provides a strong and stable platform for standard payloads up to 150 lbs. When elevated to its full upright position, the mast can be rotated a full 360°. By loosening the T-Handle, operators can rotate the mast with ease in either direction. The mast can be positioned in one of four different positions, and locked back in place by re-tightening the T-handle. The mast itself spins freely with ease, and can typically be rotated with a single hand.

The electric winch on this mast is offered in 120V or 240V AC 50/60 HZ. Additional voltage options are available at an additional charge. Larson Electronics can offer single phase and three phase AC winches, or low voltage DC winches.

The LM series of towers are powder coated with a glossy blue finish for corrosion resistances and aesthetics. This light mast is mounted to a 14` by 6`, single axle trailer via six 1/2" anchor bolts. The two wheel trailer is equipped with a 3,500 lbs. axle and leaf springs with 15" trailer tires. The trailer can support and haul an additional 3,500 lbs. of equipment. A standard 2" ball coupling, two standard safety chains, and 4-pin flat trailer plug allow for easy hookup and towing.

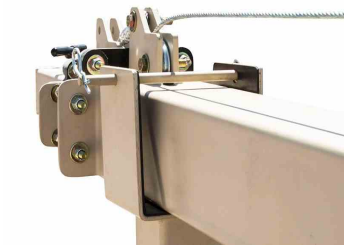
The LM family of telescoping towers feature a proprietary mast guidance system, which provides increased stability during high winds. Four 1,000 lb. hand crank leveling jacks are used for leveling. The jacks can be leveled by hand crank or attachment provided for power drills. These outriggers can be extended 2` out

from the side of the trailer for added stability. When lowered to 13.5`, the mast can withstand winds up to 125 mph. Custom builds can be provided for higher wind speed resistance when fully raised.



Retractable outriggers with 1,000 lb. manual crank jacks and tail lights.

Click Image to Enlarge



Mast support bracket for securing the mast boom in the fold-over position during transportation.

Click Image to Enlarge



The LM-40-4S-EW-TLR fitted with four HID-22-SL-REM 1000 Watt Metal Halide Light Fixtures

Click Image to Enlarge



Ready to Ship

Click Image to Enlarge



Click Image to Enlarge

This light tower assembly weighs approximately 1200 lbs., can easily support and lift 150 lbs. of equipment. The entire tower assembly is shipped via common freight carrier or flatbed. Larson Electronics can custom tailor these units to customer`s requirements with longer sections and larger mounting plates. Larson Electronics can custom build these towers to meet your overall and collapsed height requirements.
We also offer a choice of either the manual or electric winches, finishing, and equipped light heads. Winch options include 2,500 lbs. hand winches (included standard) or optional electric winches for standard light towers, and heavy duty winches and hoists for high payload units. Powder coating color can be customized (the standard mast is gloss blue). Mast location on the trailer bed can be tongue mounted, front of the trailer bed, or center of the trailer bed. These towers can be fitted with Larson Electronics line of high output light heads, or customize the mast head to meet the mounting requirements for your equipment.



Click Image to Enlarge



Click Image to Enlarge



Click Image to Enlarge



Click Image to Enlarge



Click Image to Enlarge



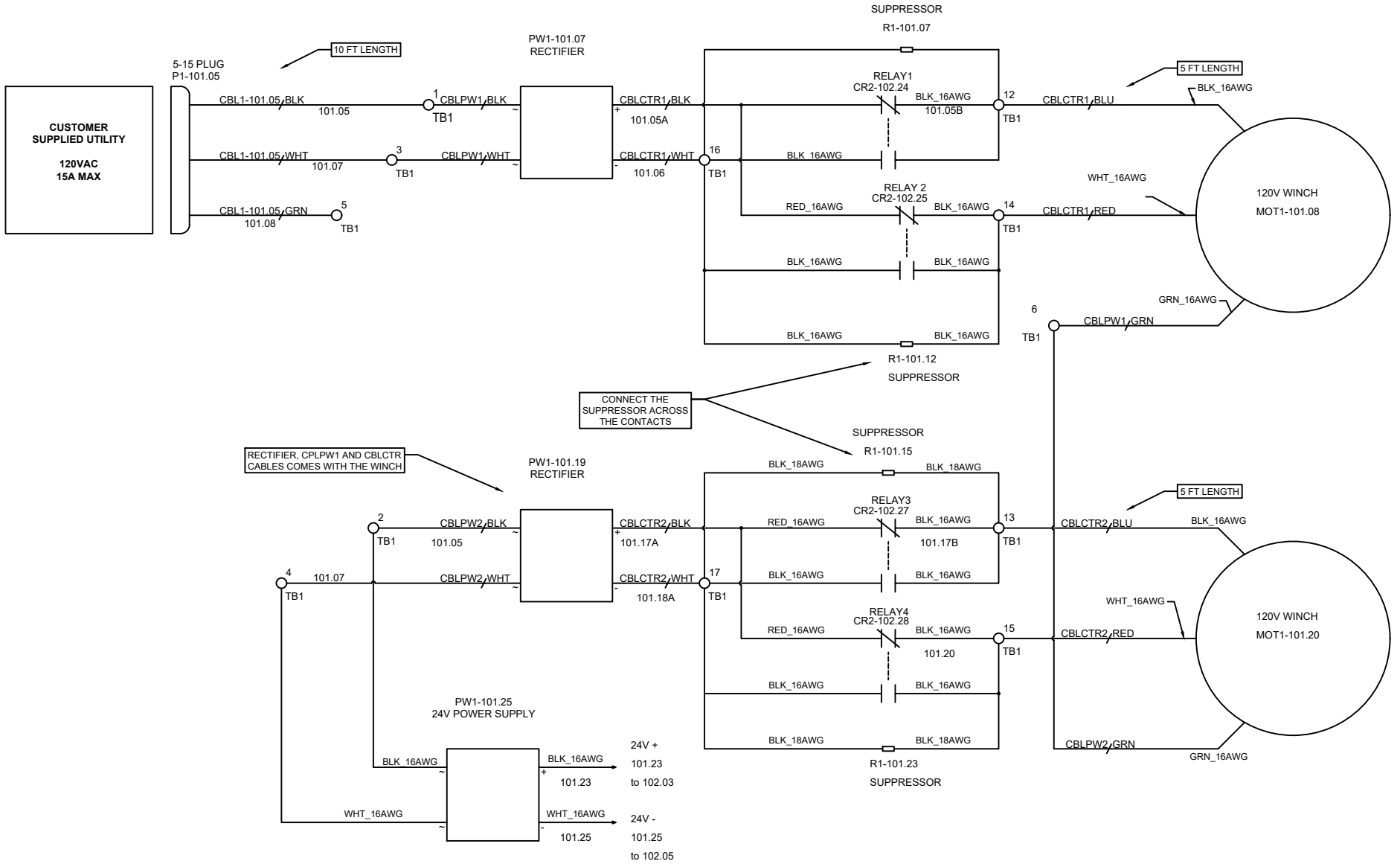
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Suggested Applications: Temporary lighting, construction sites, and security camera deployment. We can equip this mast with 1000W HID-22-SL-REM or 1500W HID-22-15M-SL-REM Metal Halide lights or a wide variety of high powered LED lights with comparable power, including the LED10WSA-160, LED10WSA-320, LEDP5W-30, LEDP5W-60, and GAU-HB-160LED.
At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

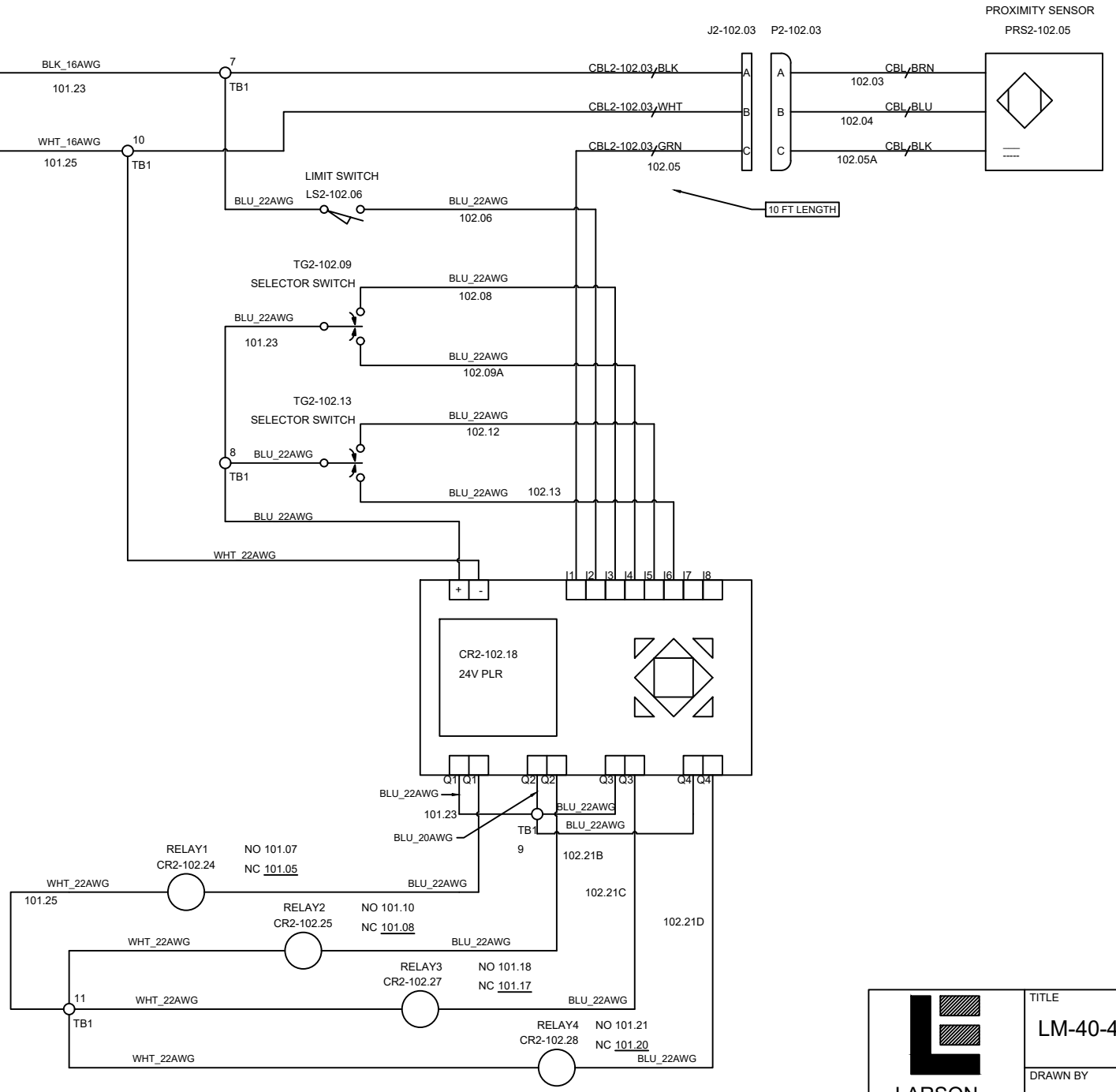
REV	DESCRIPTION	DATE
A	PRODUCTION RELEASE	4/7/2021

LM-40-4S-EW-TLR-120V

LARSON ELECTRONICS®



LARSON ELECTRONICS 9419 E US HWY 175, KEMP, TX 75143	TITLE LM-40-4S-EW-TLR-120V		
	DRAWN BY S.DESAI	DATE 04-07-2021	REV A
	CHECKED BY P.CRYER	SHEET # 1 OF 4	DRAWING # 101



LARSON ELECTRONICS 9419 E US HWY 175, KEMP, TX 75143	TITLE LM-40-4S-EW-TLR-120V		
	DRAWN BY S.DESAI	DATE 04-07-2021	REV A
	CHECKED BY P.CRYER	SHEET # 2 OF 4	DRAWING # 102

TB1							
Device1	Wire1	Type1	Number	Type2	Wire2	Device2	Jumper
P1-101.05	101.05	WIRES	1	WIRES	101.05	PW1-101.07	
PW1-101.19	101.05	BLK_16AWG	2	BLK_16AWG	101.05	PW1-101.25	
P1-101.05	101.07	WIRES	3	WHT_16AWG	101.07	PW1-101.07	
PW1-101.19	101.07	WHT_16AWG	4	WHT_16AWG	101.07	PW1-101.25	
P1-101.05	101.08	WIRES	5				
W2		WIRES	6	WIRES		W2	
PW1-101.25	101.23	BLK_16AWG	7	WIRES	101.23	J2-102.03	
LS2-102.06	101.23	BLU_22AWG					
TG2-102.09	101.23	BLU_22AWG	8	BLU_22AWG	101.23	TG2-102.13	
CR2-102.18	101.23	BLK_18AWG					
CR2-102.18	101.23	BLU_22AWG	9	BLU_22AWG	101.23	CR2-102.18	
CR2-102.18	101.23	BLU_22AWG		BLU_22AWG	101.23	CR2-102.18	
J2-102.03	101.25	WIRES	10	WHT_16AWG	101.25	PW1-101.25	
CR2-102.18	101.25	WHT_18AWG					
CR2-102.24	101.25	WHT_22AWG	11	WHT_22AWG	101.25	CR2-102.25	
CR2-102.27	101.25	WHT_22AWG		WHT_22AWG	101.25	CR2-102.28	
R1-101.07	101.05B	WIRES	12	BLK_16AWG	101.05B	CR2-102.24	
W2	101.05B	WIRES		BLK_16AWG	101.05B	CR2-102.24	
R1-101.15	101.17B	WIRES	13	BLK_16AWG	101.17B	CR2-102.27	
W2	101.17B	BLK_16AWG		BLK_16AWG	101.17B	CR2-102.27	
CR2-102.25		BLK_16AWG	14	WIRES		W2	
CR2-102.25		BLK_16AWG					
CR2-102.28	101.20	BLK_16AWG	15	WIRES	101.20	W2	
CR2-102.28	101.20	BLK_16AWG					
R1-101.07	101.06	BLK_16AWG	16	WHT_16AWG	101.06	PW1-101.07	
CR2-102.24	101.06	WHT_16AWG		BLK_16AWG	101.06	CR2-102.25	
R1-101.15	101.18A	WIRES	17	BLK_16AWG	101.18A	PW1-101.19	
CR2-102.27	101.18A	BLK_16AWG		BLK_16AWG	101.18A	CR2-102.28	

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TITLE: LM-40-4S-EW-TLR-120V

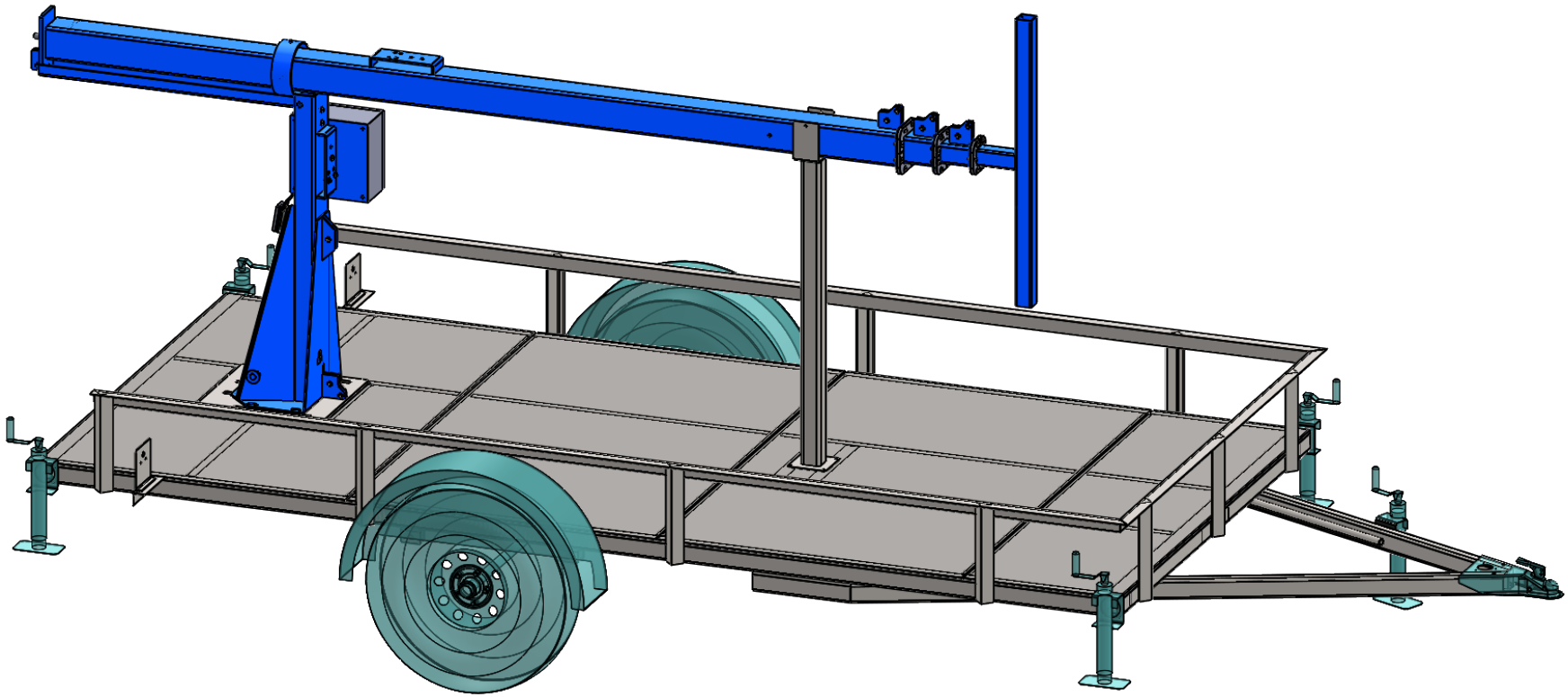
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P.CRYER	3OF 4	103

TAGS	QTY	CATALOG	DESCRIPTION
P2-102.03	1	UNV00005473	DT BLACKSHELL 3WAY PLUG
J2-102.03	1	UNV00005477	DT 3WAY RECEPTACAL
P1-101.05	1	UNV00006731	PLUG , STRAIGHT BLADE 15A, 125V NEMA 5-15
CR2-102.18	1	UNV00003664	PLR-24V 6DC I/P 2 ANALOG I/P AND 4 O/P
CR2-102.24 CR2-102.25 CR2-102.27 CR2-102.28	4	UNV00015261	24V 15A ICE CUBE RELAY
LS2-102.06	1	UNV00012297	Compact limit switch, metal plunger, (1) N.O./(1) N.C. contact(s)
MOT1-101.08 MOT1-101.20	2	UNV00003127	120V winch without clutch and cable
PW1-101.25	1	UNV00014068	15 W 24 VOLT POWER SUPPLY
PRS2-102.05	1	UNV00016446	Inductive proximity sensor, tubularPNP, N.O. output, 5mm sensing
R1-101.07 R1-101.12 R1-101.15 R1-101.23	4	UNV00015898	ARC SUPPRESOR EMI FILTER
TG2-102.09 TG2-102.13	2	UNV00014067	Selector switch, 22mm, 3-position, spring return to center,
TB1	2	UNV00013970	FEED THROUGH 2 POINT TERMINAL BLOCK-BLUE SCREWLESS
TB1	2	UNV00013971	FEED THROUGH 2 POINT TERMINAL BLOCK-GREY SCREWLESS
TB1	1	UNV00013972	TWO HOLE TERMINAL BLOCK JUMPER
TB1	1	UNV00013972	TWO HOLE TERMINAL BLOCK JUMPER
TB1	9	UNV00013974	FEED THROUGH 4 TERMINAL BLOCK-GREY-SCREWLESS
TB1	2	UNV00013975	FEED THROUGH 4 TERMINAL BLOCK-BLUE-SCREWLESS
TB1	2	UNV00013976	TERMINAL BLOCK JUMPER 4 HOLE BLOCKS
TB1	2	UNV00013989	FEED THROUGH 2 POINT TERMINAL BLOCK-GREEN SCREWLESS
CBL1-101.05 CBL2-102.03	2	UNV00007524	CORD 16/3 SOOW UL 90C BLK CABLE

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PART NUMBER:

LM-40-4S-EW-TLR

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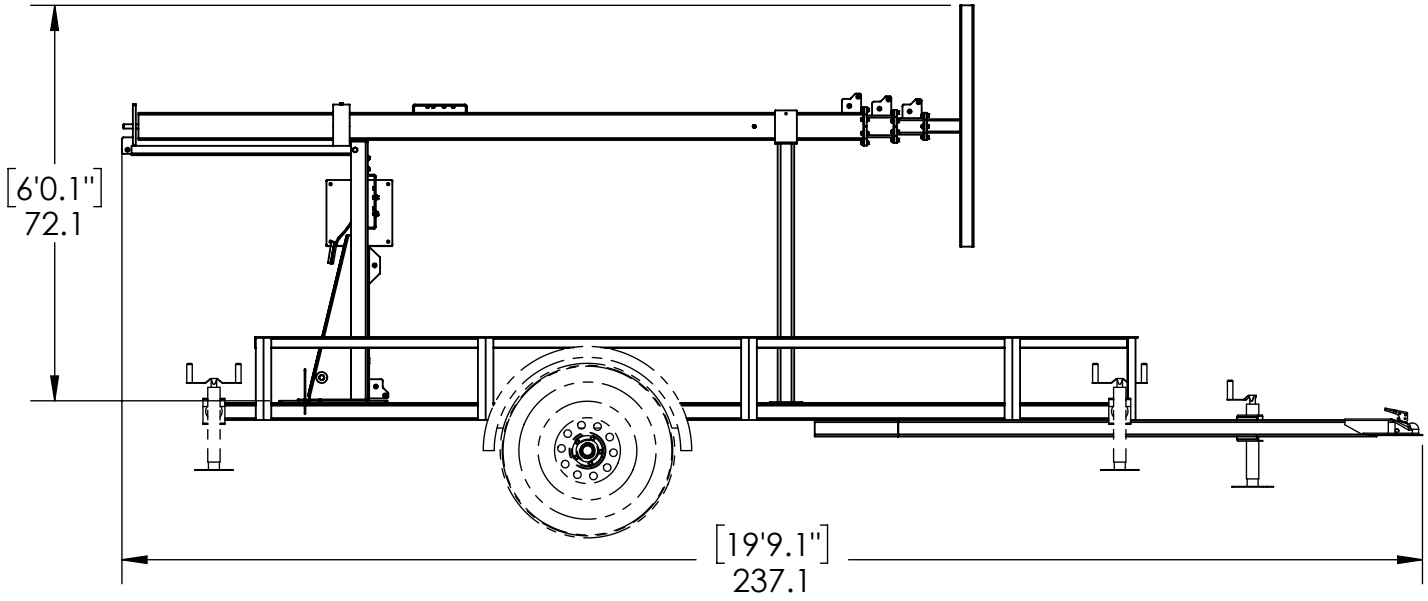
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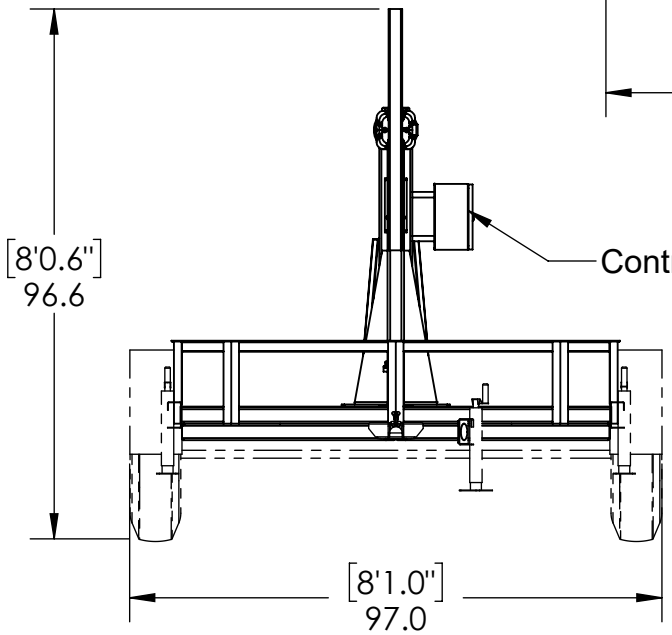
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TRAVELING POSITION



Control Box Attached to Mast Base

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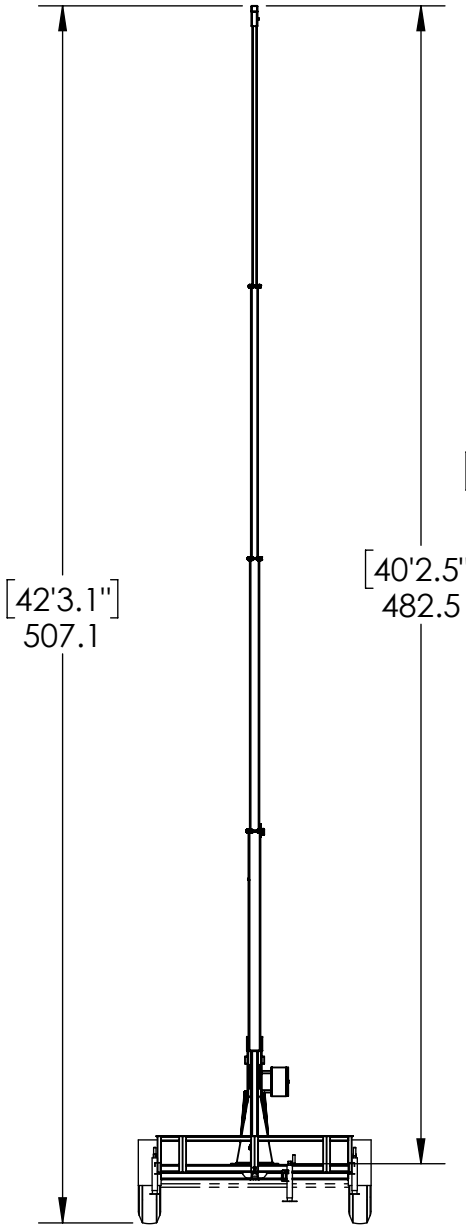
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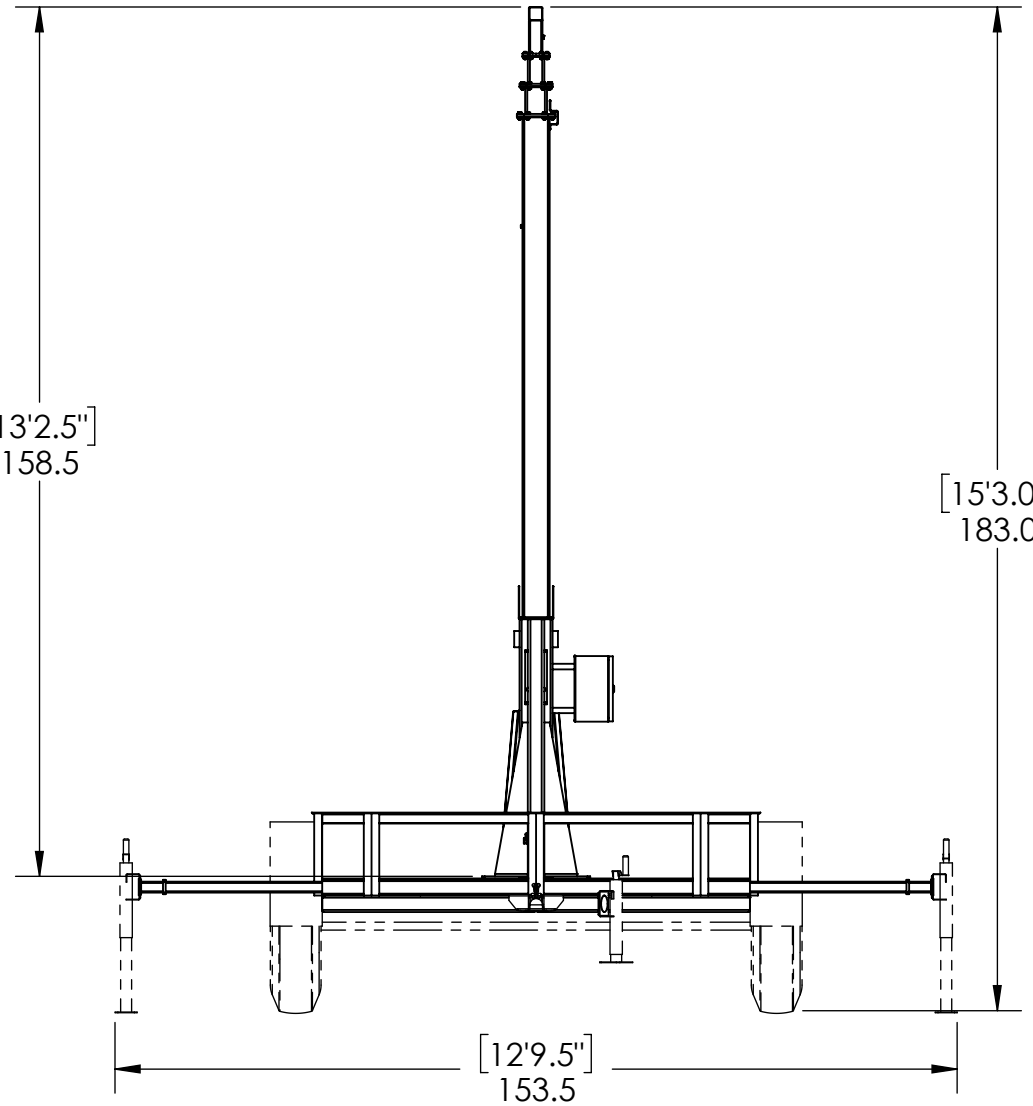
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EXTENDED



COLLAPSED

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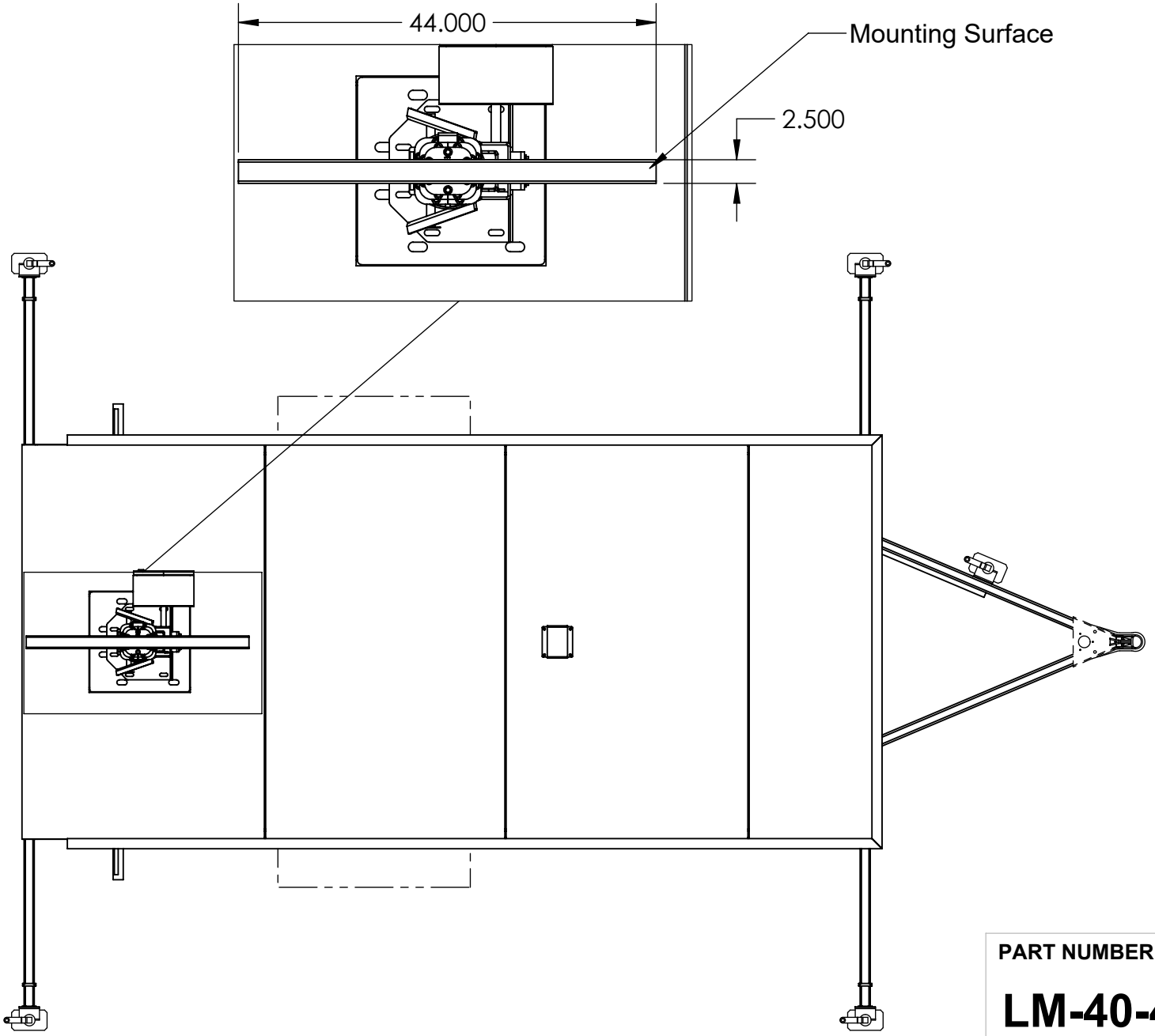
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Frequently Asked Questions (FAQ)