

# SUPER 30 AUTO EJECT

**AUTOMATIC SHORE LINE DISCONNECT**



**MODEL # : 091-159-30-250**

**INPUT: 12 / 24 Volts DC**  
**OUTPUT: 250 Volts AC, 30 Amps Max**

File: IM\_091-159-30-250\_rev.c.indd  
Rev: C  
Revised By: MFG  
Date: 10-22-2013

2 YEAR WARRANTY



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# INTRODUCTION

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The Super 30 Auto Eject is a completely sealed automatic power line disconnect. This prevents contamination of the mechanism by road dirt and ensures long reliable life even when mounted in the most severe environment. A novel plug detector closes and opens the 250 volt A.C. circuit after the mating connector is inserted and before the connector is ejected. This eliminates arcing at the connector contacts and assures long contact life. As with all Auto Ejects, the Super 30 Auto Eject is connected to the starter circuit so that ejection occurs when the engine is cranked.

## INSTALLATION INSTRUCTIONS

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### I. WIRING AND PLUMBING THE SUPER 30 AUTO EJECT

1. Remove rear plastic cover from Super 30 Auto Eject by unscrewing (4) #8-32 screws.
2. See figure 3 DC wiring. Snake wires through small cover strain relief and install wires as shown use 18 AWG wire minimum.
3. See figure 2 AC wiring. Snake wires through large cover strain relief and install wires as shown use 10 AWG wire minimum.
4. Reinstall rear plastic cover.
5. Test the unit to see if it is operational before mounting.

### II. MOUNTING THE SUPER 30 AUTO EJECT

1. Locate a convenient place on the vehicle to mount the Super 30 Auto Eject. A minimum clearance of 5 inches behind the mounting panel is required.
2. Place the hole template (Figure 4) in position and center punch in 6 places. **\*Note:** it is recommended to mount the unit vertically with the weatherproof cover closest to the top of the mounting plate (see Figure 1).
3. Drill 6 mounting holes, #29 drill (0.136" diameter). Be certain that holes are precisely located.
4. Cut-out rectangular hole.
5. See figure 1 mounting. Install weatherproof cover, weatherproof cover gasket, mounting plate, and mounting plate gasket to Super 30 using (2)#8-32 x 3/4" and (2)#8-32 x 1 5/8" screws provided.
6. Install that assembly into cut-out in truck wall using (6)#8-32 x 1/2" self tapping screws provided.

# TEST AND OPERATION

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## I. ELECTRICAL TEST

Inspect and verify that the D.C. wiring is properly connected to the terminal strip as illustrated in figure 3. Measure the D.C. voltage from pin 1 to pin 2. This voltage should equal the battery Voltage of the vehicle. Now measure the voltage from pin 3 to pin 2 and crank the engine. Cranking the engine should create a D.C. voltage from pin 3 to pin 2 approximately equal to the battery voltage and simultaneously cause the plug to eject.

## II. OPERATION

Plug in the connector to the Auto Eject and start the vehicle. The connector should eject at this time. The Super 30 Auto Eject disconnects the shoreline by extending a shaft to push the plug out of the unit. A novel plug detector closes and opens the 250-volt A.C. Circuit after the mating connector is inserted and before the connector is ejected. This eliminates arcing at the connector contacts and assures long contact. Because of this, the connector can be operated manually or automatically with no damage to the unit.

# NOTES AND CAUTIONS

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## I. NOTES

Do not permit the shore line to drop to the floor when it is ejected. Keep from falling by utilizing a bungee cord restraint, cord reel or some other device. Dropping the connector may result in damage or breakage. Kussmaul Electronics does not warrant the connector.

## II. ABOUT CONNECTORS

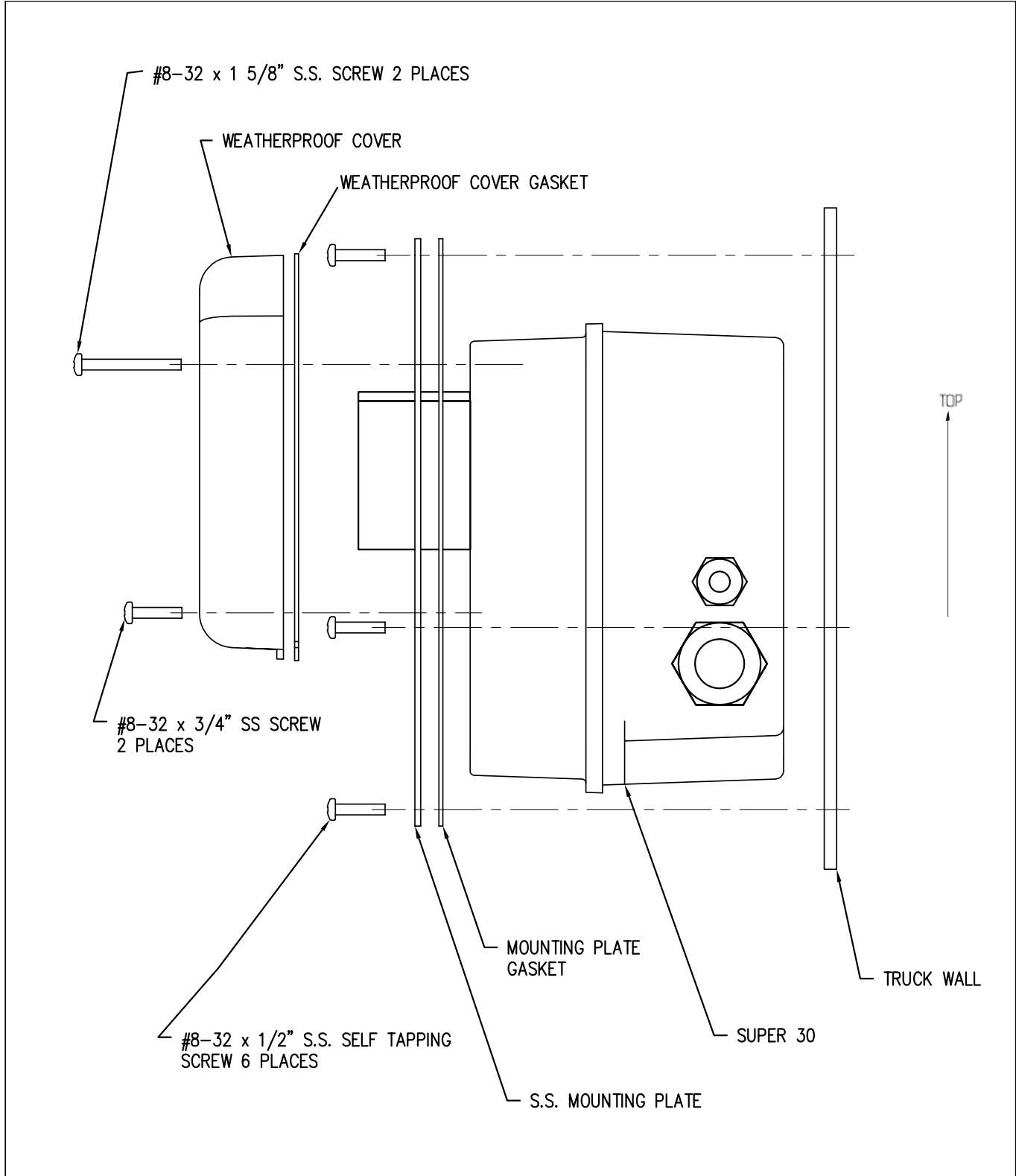
The Super 30 Auto Eject is supplied with mating connector, Part Number: 091-159-CON-3P-120. We suggest that you utilize the connector supplied. When replacing with another connector, test carefully that the new connector will eject properly.


## III. ANNUAL MAINTENANCE

1. Lubricate electrical fittings with graphite-petroleum lubricant.
2. Check all gaskets and replace if warn.

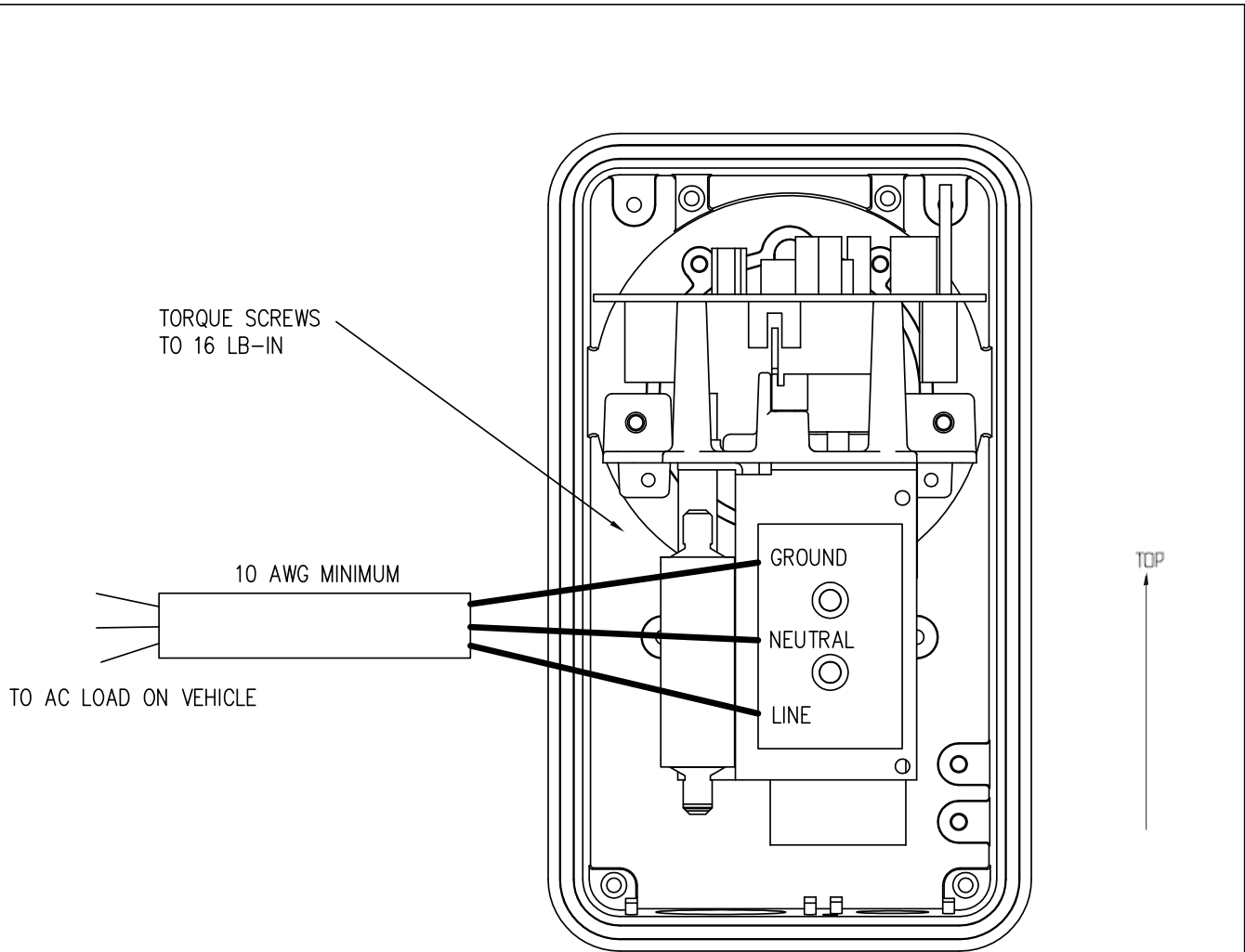
# INSTALLATION INSTRUCTIONS

## I. FIGURE 1, MOUNTING INSTRUCTIONS

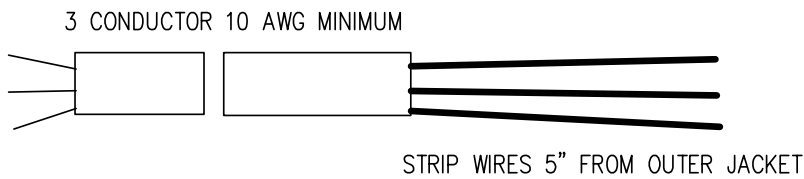



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS ANGULAR .XX ± .005 .XXX ± .001 DO NOT SCALE DRAWING	 <b>KUSSMAUL ELECTRONICS CO., INC.</b> WEST SAYVILLE, NY		
	<b>FIGURE 1 MOUNTING INSTRUCTIONS</b>		
DRAWN <b>T. Nugent</b>	SIZE	DWG NO. <b>091-159</b>	REV
FINISH	SCALE	DATE	SHEET OF

## II. FIGURE 2, AC WIRING

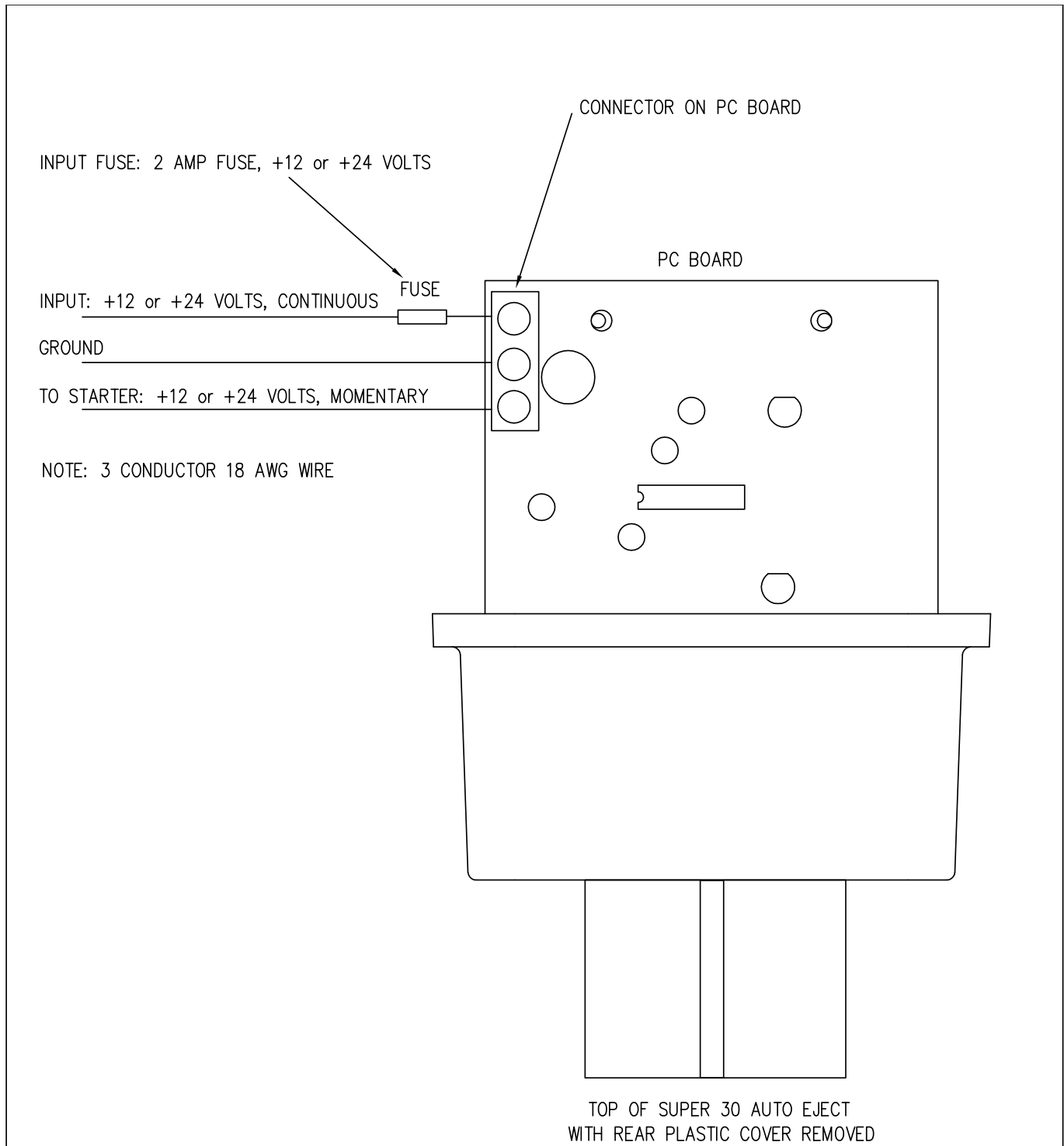



BACK OF SUPER 30 AUTO EJECT  
WITH REAR PLASTIC COVER REMOVED



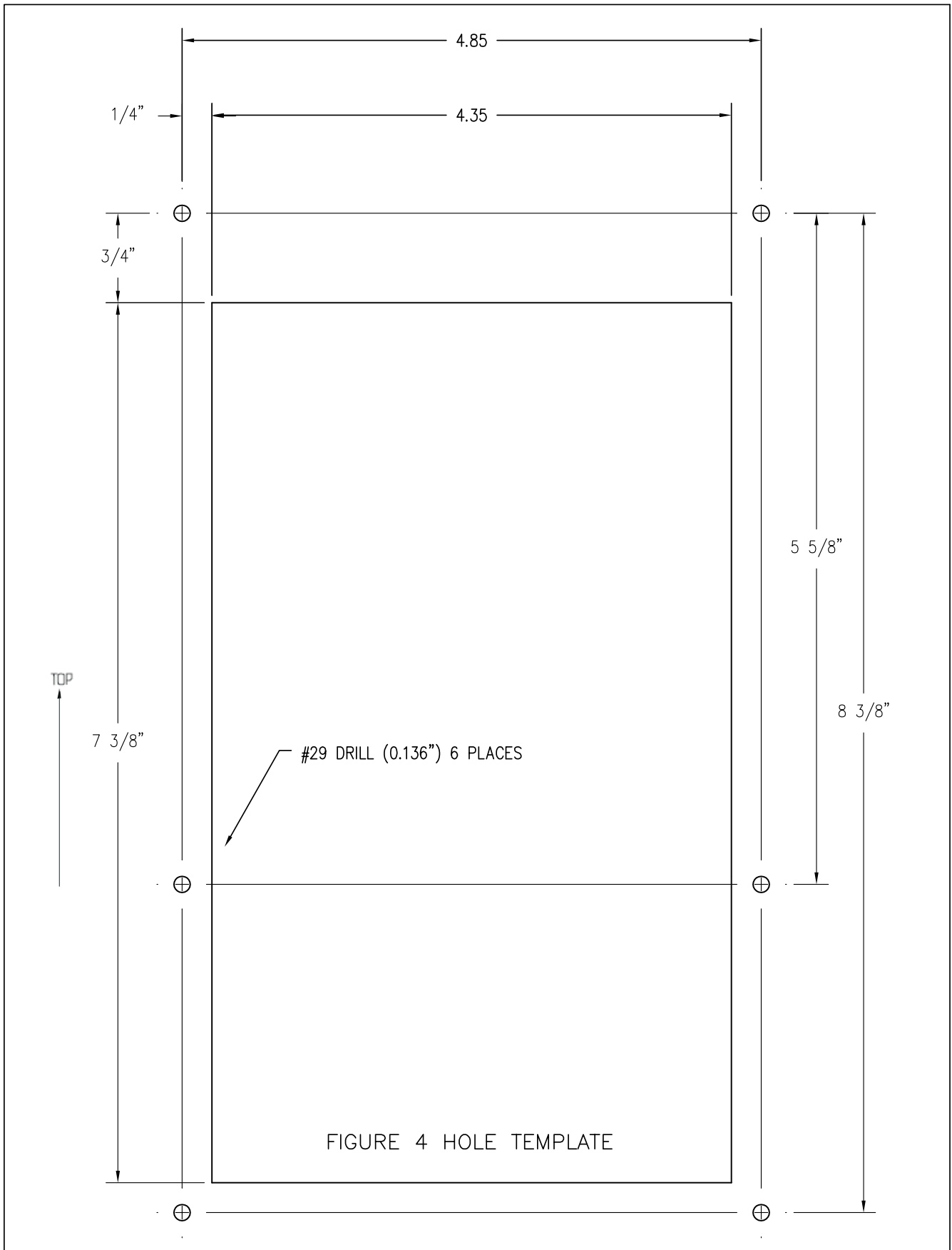
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS ANGULAR .XX ± .005 .XXX ± .001 DO NOT SCALE DRAWING		 <b>KUSSMAUL ELECTRONICS CO., INC.</b> WEST SAYVILLE, NY	
DRAWN T. Nugent		FIGURE 2 AC WIRING	
FINISH	SIZE	DWG NO. 091-159	REV
MAT.	SCALE	DATE	SHEET OF

### III. FIGURE 3, DC WIRING

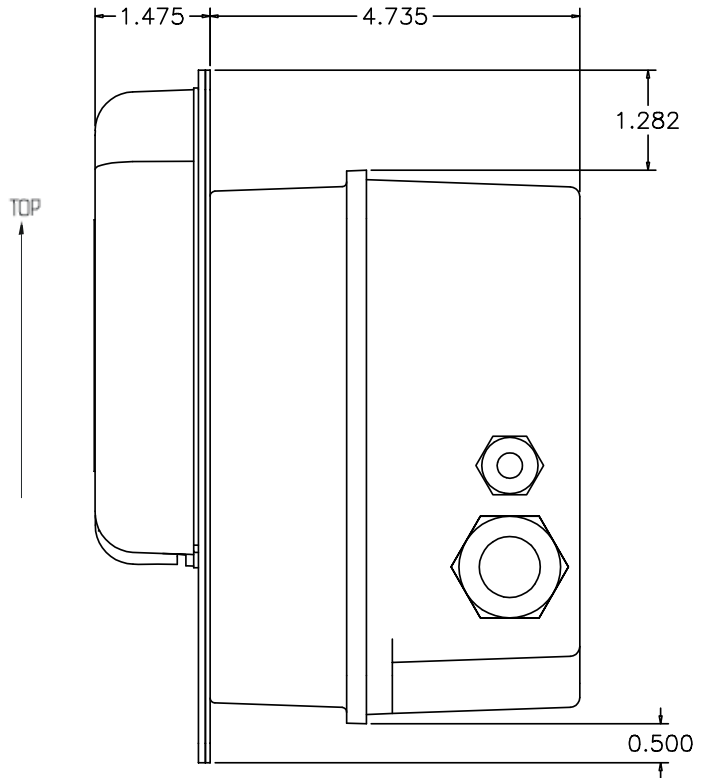
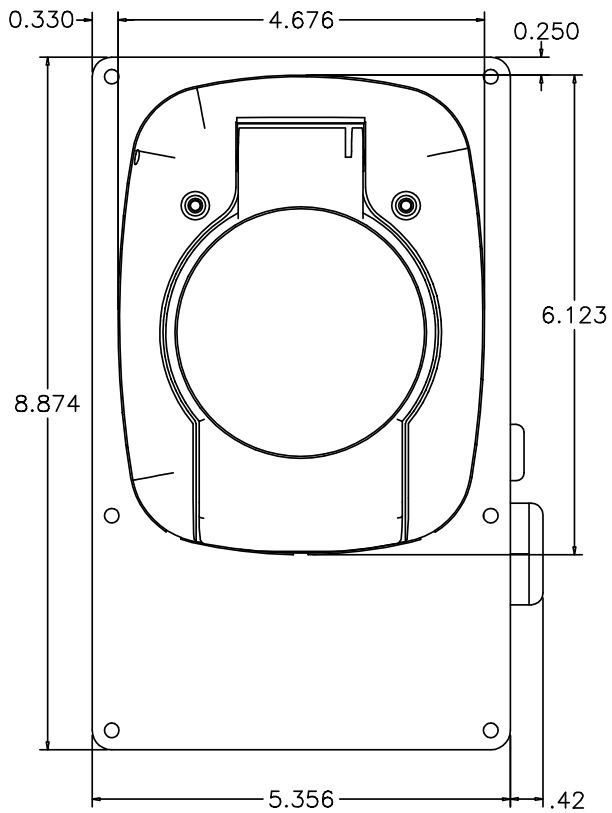
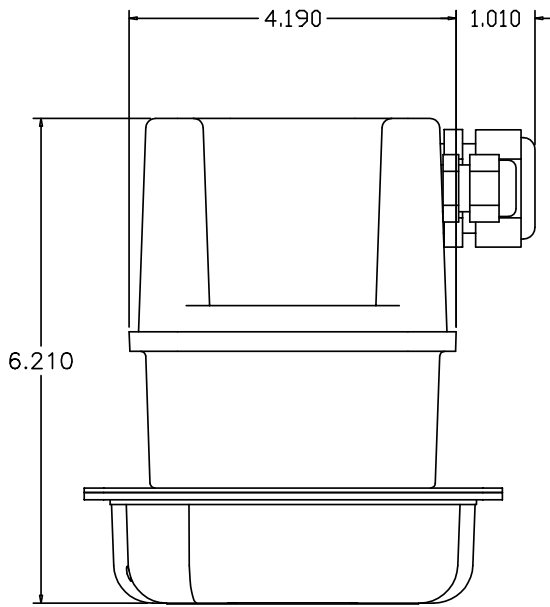


<small>UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS ANGULAR .XX ± .005 .XXX ± .001 DO NOT SCALE DRAWING</small>	 <b>KUSSMAUL ELECTRONICS CO., INC.</b> WEST SAYVILLE, NY		
	<b>FIGURE 3: DC WIRING</b>		
DRAWN <b>T. Nugent</b>	SIZE	DWG NO. 091-159	REV D
FINISH	SCALE	DATE 12-17-2012	SHEET OF

#### IV. FIGURE 4, HOLE TEMPLATE



# OUTLINE DRAWING



UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES  
 DECIMALS ANGULAR  
 .XX ± .005  
 .XXX ± .001  
 DO NOT SCALE DRAWING



**KUSSMAUL ELECTRONICS CO., INC.**  
 WEST SAYVILLE, NY

OUTLINE DRAWING

DRAWN T. Nugent

SIZE

DWG NO.

REV

FINISH

091-159

MAT.

SCALE

DATE

SHEET

OF



# SPECIFICATIONS

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**Input Voltage:** 10 - 28 Volts DC

**Input Current:** 1.6 Amperes Max

**External Fuse:** 2 Ampere

**Electrical Rating:** 250 Volts AC, 30 Amperes Max

**Hardware Pack Provided:** Inline fuseholder with fuse, mounting plate with gasket, cover with gasket, blue/gray mating connector, mounting screws

**Weight:** 7 pounds

# INSTALLATION RECORD

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DATE INSTALLED \_\_\_\_\_

INSTALLED BY \_\_\_\_\_

VEHICLE IDENTIFICATION \_\_\_\_\_

VEHICLE OWNER \_\_\_\_\_

# WARRANTY POLICY

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All products of Kussmaul Electronics are warranted to be free of defects of material or workmanship. Liability is limited to repairing or replacing at our factory, without charge, any material or defects which become apparent in normal use within 2 years from the date the equipment was shipped. Equipment is to be returned, shipping charges prepaid and will be returned, after repair, shipping charges paid.

Kussmaul Electronics shall have no liability for damages of any kind to associated equipment arising from the installation and/or use of the Kussmaul Electronics products. The purchaser, by the acceptance of the equipment, assumes all liability for any damages which may result from its installation, use or misuse, by the purchaser, his or its employees or others.



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