

PROPRIETY ITEM - EXCEPT FOR USES EXPRESSLY GRANTED IN WRITING.  
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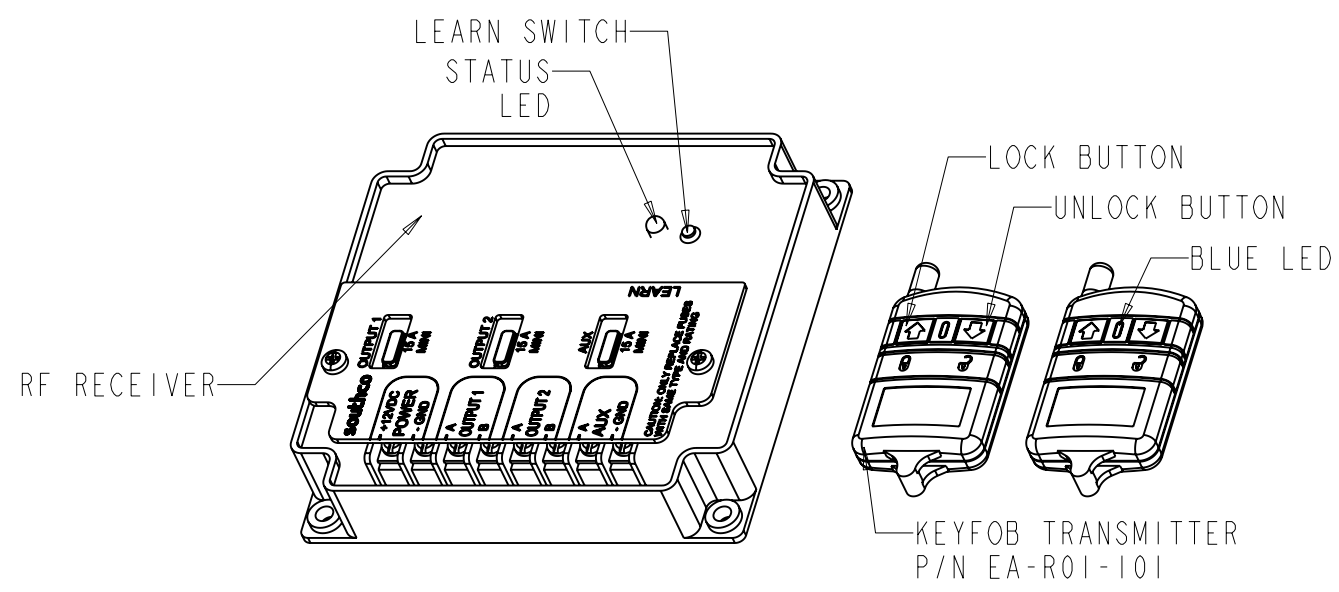
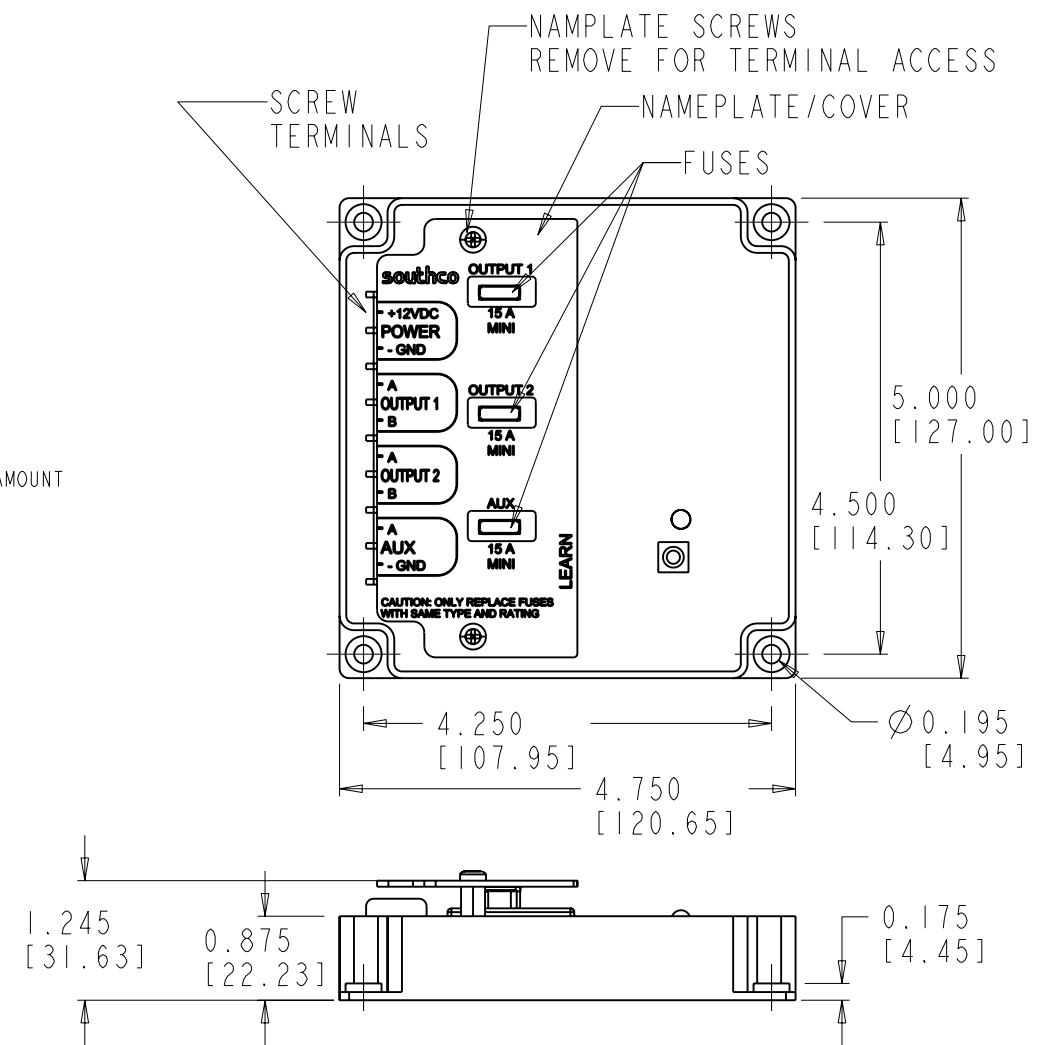
REVISION RECORD			
SYMB	DESCRIPTION	BY	DATE
A	PRN: P2009-0310	MJS/GGG	10MAR2009
B	PRN: P2009-0627	MJS/BB	19MAY2009
C	PRN: P2010-0404	MJS/BB	26APR2010
D	PRN: P2010-0775	MJS/BB	22JUL2010

NOTES:

- TWO TRANSMITTERS (TX) ARE INCLUDED PER CONTROLLER KIT. THE RECEIVER (RX) IS PRE-PROGRAMMED TO WORK WITH THE TRANSMITTERS PROVIDED. THE RECEIVER CAN SUPPORT A MAXIMUM OF FOUR TRANSMITTERS. FOR ADDITIONAL TRANSMITTERS, ORDER P/N EA-R01-101 SEPERATELY. TO PROGRAM ADDITIONAL TRANSMITTERS FOLLOW PROGRAMMING INSTRUCTIONS PROVIDED. NOTE: ATTEMPTING TO ENROLL ADDITIONAL TRANSMITTERS WILL CAUSE ALL PREVIOUS TRANSMITTERS THAT WERE ENROLLED TO BE ERASED AND WILL REQUIRE RE-PROGRAMMING TO THE RECEIVER.
- EACH TRANSMITTER INCLUDES ONE TYPE 23 12V BATTERY. BATTERIES ARE REPLACEABLE BY REMOVING ONE SCREW AND AND OPENING ENCLOSURE.
- TRANSMITTER FUNCTIONS:
  - TO UNLOCK THE SYSTEM MOMENTARILY PUSH THE UNLOCK BUTTON ON THE TX ONCE.
  - TO LOCK THE SYSTEM MOMENARILY PUSH THE LOCK BUTTON ON THE TX ONCE.
  - A BLUE LED WILL ILLUMINATE WHILE EITHER BUTTON IS PUSED TO VISUALLY CONFIRM TRANSMISSION.
- RECEIVER MODULE:
 

CONNECTIONS: ALL ELECTRICAL CONNECTIONS ARE MADE VIA SCREW TERMINALS ACCESSIBLE BY REMOVING TWO SCREWS AND THE NAMEPLATE.

  - POWER: CONNECT +12VDC AND GROUND TO TERMINALS SHOWN ON NAMEPLATE. CAREFULLY OBSERVE CORRECT POLARITY.  
 MAX COMBINED CURRENT DRAW 30A MAX MOMENTARY, IDLE CURRENT: LESS THAN 10mA  
 OPERATING VOLTAGE (AT TERMINALS): 9 TO 15 VDC
  - OUTPUT1 AND OUTPUT2: CONNECT AN APPROPRIATE WIRE HARNESS FOR THE OUTPUT1 AND OUTPUT2 CIRCUITS.  
 OUTPUT: UNLOCK COMMAND WILL PROVIDE A +12V, 200ms PULSE TO THE "A" CIRCUIT ON OUTPUT1, AND THEN ON OUTPUT2, 300ms PAUSE BETWEEN PULSES, AND GROUND THE "B" CIRCUITS. LOCK COMMAND WILL PROVIDE A +12V 200ms PULSE TO THE "B" CIRCUIT ON OUTPUT1, AND THEN ON OUTPUT2, 300ms PAUSE BETWEEN PULSES, AND GROUND THE "A" CIRCUITS.
  - AUX: CONNECT AN APPROPRIATE WIRE HARNESS FOR THE AUX CIRCUIT. OBSERVE CORRECT POLARITY AS INDICATED ON THE NAMEPLATE.  
 OUTPUT: UNLOCK COMMAND WILL PROVIDE TWO +12V PULSES(400ms DURATION, 200 mS PAUSE) TO THE "A" CIRCUIT AND GROUND THE -GND CIRCUIT (TWO FLASHES).  
 LOCK COMMAND WILL PROVIDE ONE +12V PULSE(400ms DURATION) TO THE "A" CIRCUIT AND GROUND THE -GND CIRCUIT (ONE FLASH).  
 MAXIMUM LOAD: 15A AT 12VDC
- RECEIVER MOUNTING: THE RECEIVER SHOULD BE MOUNTED IN A LOCATION TO MINIMIZE RF SHIELDING. THE RECEIVER SHOULD BE PROTECTED AGAINST CONTINUOUS EXPOSURE TO WATER, IMMERSION IN WATER OR DRIVEN RAIN. FOUR SCREW BOSSES ARE PROVIDED FOR MOUNTING.
- FUSES ARE PROVIDED TO PROTECT AGAINST SHORT CIRCUITING THE OUTPUTS. ONLY REPLACE FUSES WITH SAME TYPE AND RATING.  
 FUSE TYPE: LITTELFUSE 291 Series - MINIØ FAST-ACTING AUTOMOTIVE BLADE FUSE OR EQUIVALENT.
- OPERATING RANGE FOR THE SYSTEM IS APPROXIMATELY 100 FEET IN UNOBSTRUCTED OPEN AIR AND STANDARD CONDITIONS. THE INSTALLED RANGE WILL BE AFFECTED BY THE AMOUNT OF SHIELDING BETWEEN THE RX AND TX.
- RECEIVER OPERATING TEMPERATURE: -17 TO 71 DEGREES CELSIUS.
- PACKAGING: PACKAGED ONE RECEIVER, TWO(2) TRANSMITTERS AND ONE INSTRUCTIONS SHEET IN A CARDBOARD BOX.



INCHES [MILLIMETERS]  ALL DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY	<b>southco</b> <sup>®</sup>		TITLE RF CONTROLLER KIT	
	DESIGNER GGG 4APR2007	DRAFTER	DWG No J-EA-R01	REVISION D
	MODEL NAME EM-99-125	SCALE 0.500	PART NUMBER	
			CALC. WEIGHT/VOL.	FORMAT B