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MRW-SSDL

User controlled Ditch Lights



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MRW-SSDL by Model Radio Workshop.

INSTALLATION.

This pcb can be added in line to an R/C Switch that is used to trigger a diesel sound system. Or it can be just a trigger only using Ch # 5.

Plug the sound system trigger servo cable into the 3 x pins on this pcb.

Match servo cable polarity. The lightest colour is the signal wire and the darkest colour is system ground(-). Red is (+) in the middle.

The Ch # 2 signal, HI & LO, will be fed through to the Sound system trigger.

HOW IT WORKS.

Operating voltage is 4.4v to 6.3 v.

Extra ballast resistors are not needed with LED's. Resistors are fitted to the pcb. Simply connect LED's. Observe correct polarity.

Lights will trigger ON between 1.5 ms and 1 ms. This is F1 (the horn trigger)

OR: Ch # 5 Bind button on all RCS Tx's.

1.5 ms - 2 ms is another different trigger & is ignored by the # MRW-SSDL.

OPERATION.

Can be Manual or automatic control. See following pages.

When the Diesel Horn is triggered by briefly pressing the button, it will

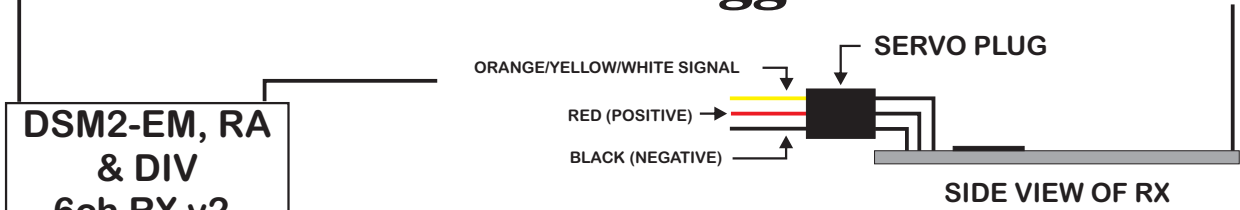
activate the Ditch Lights to start a 12 second sequence of alternately

flashing lights. After which, the lights will stay ON. By pressing and holding

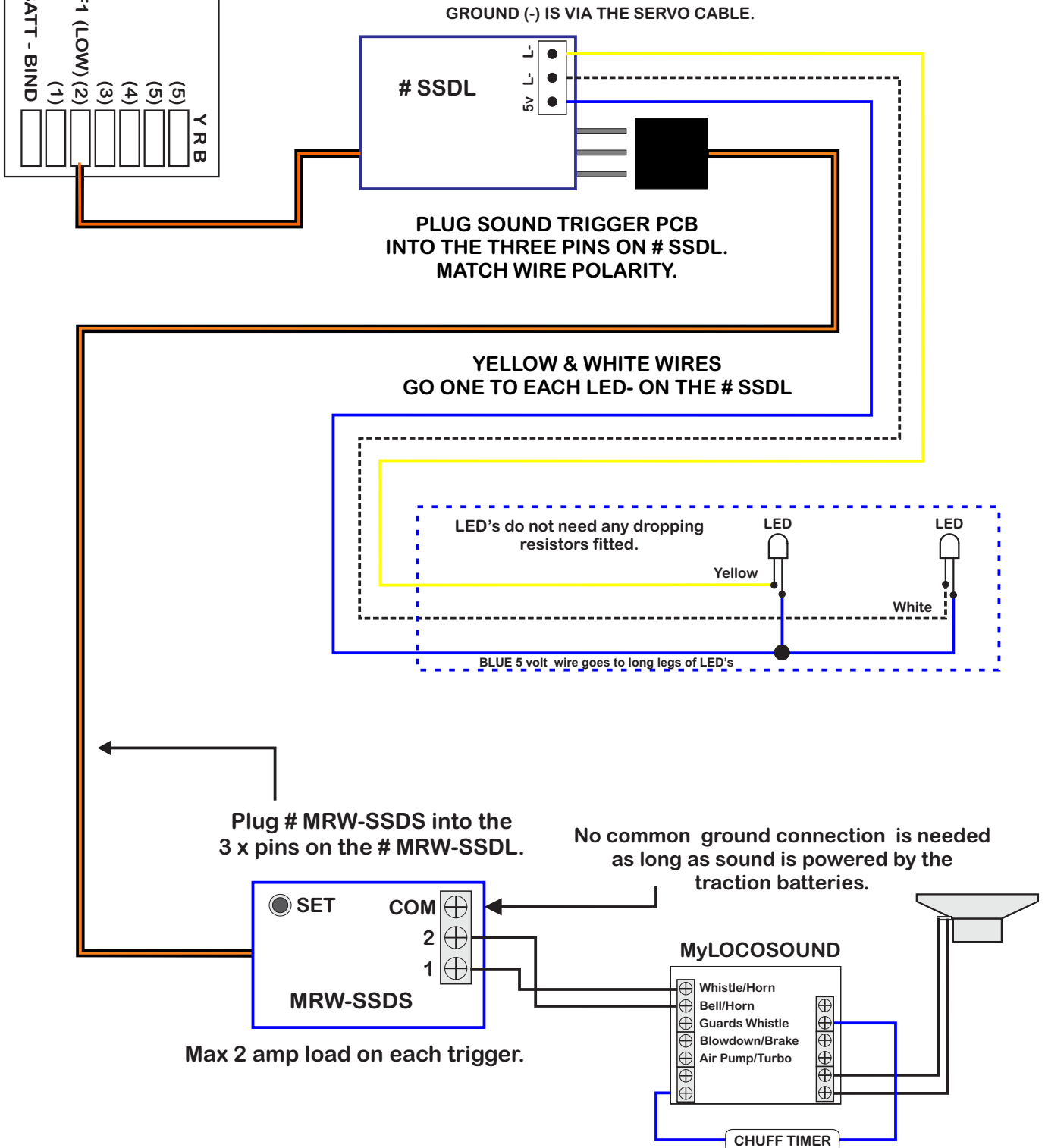
the horn button again, the lights will turn OFF after a few seconds.

There are no user serviceable components.

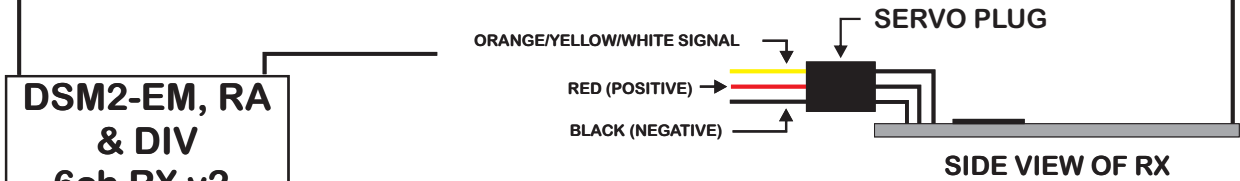
WIRING THE RCS #MRW-SSDL w/LED's for automatic Ditch Lights using Ch # 2 with Horn sound trigger MRW-SSDS.



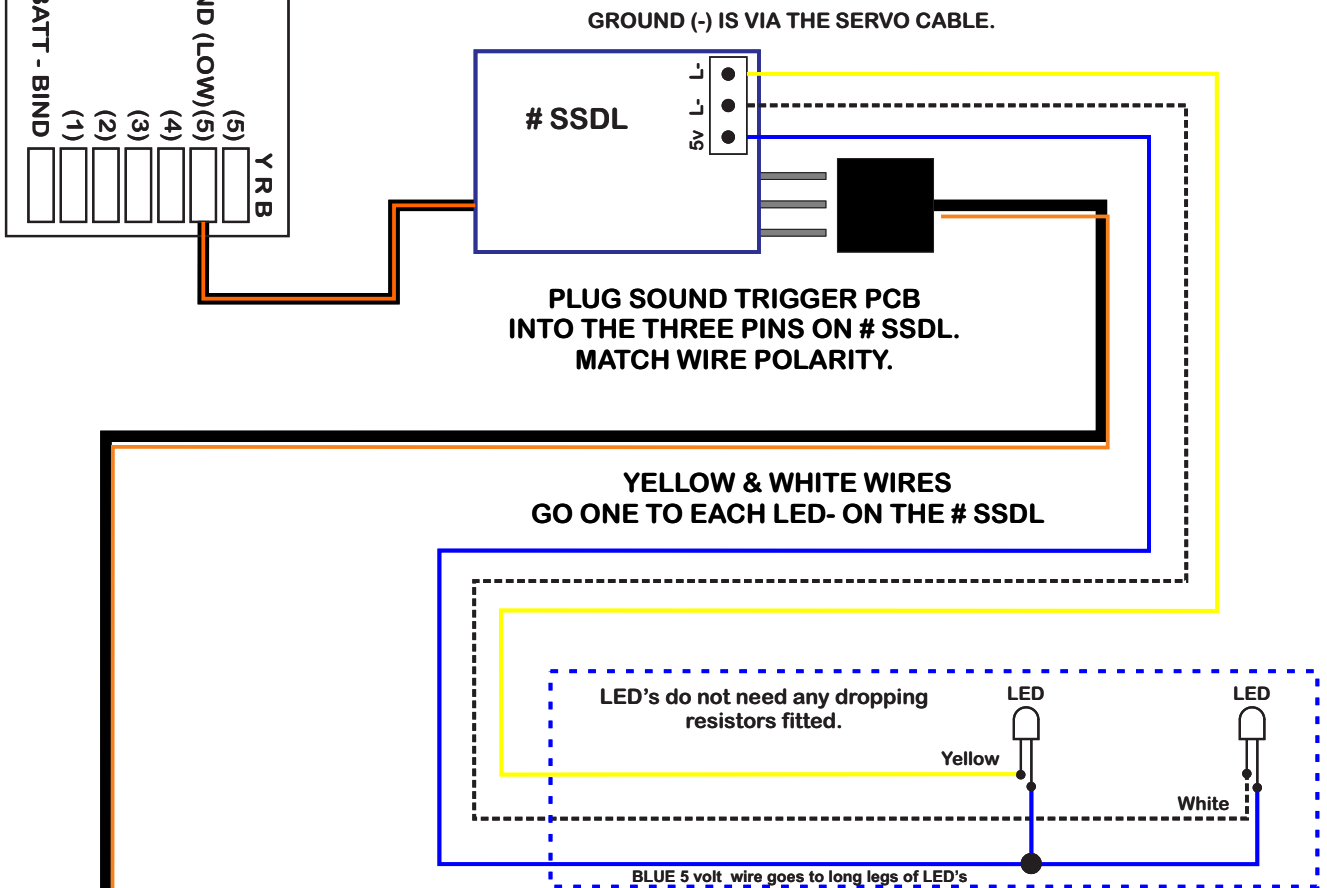
N.B. Maximum current on each output is 100 ma.



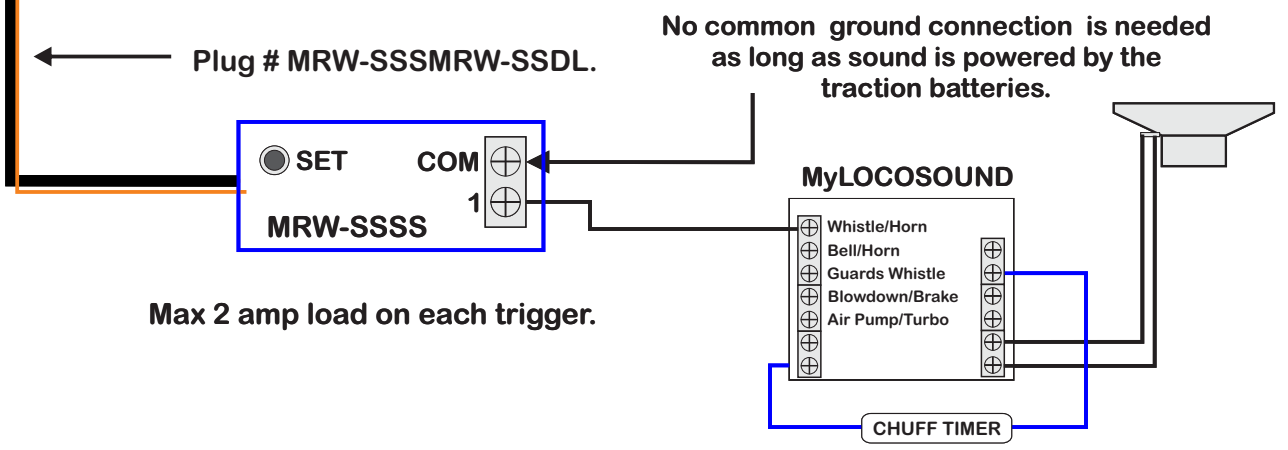
WIRING THE RCS #MRW-SSDL w/LED's for automatic Ditch Lights using Ch # 5 with a Horn sound trigger # MRW-SSSS.



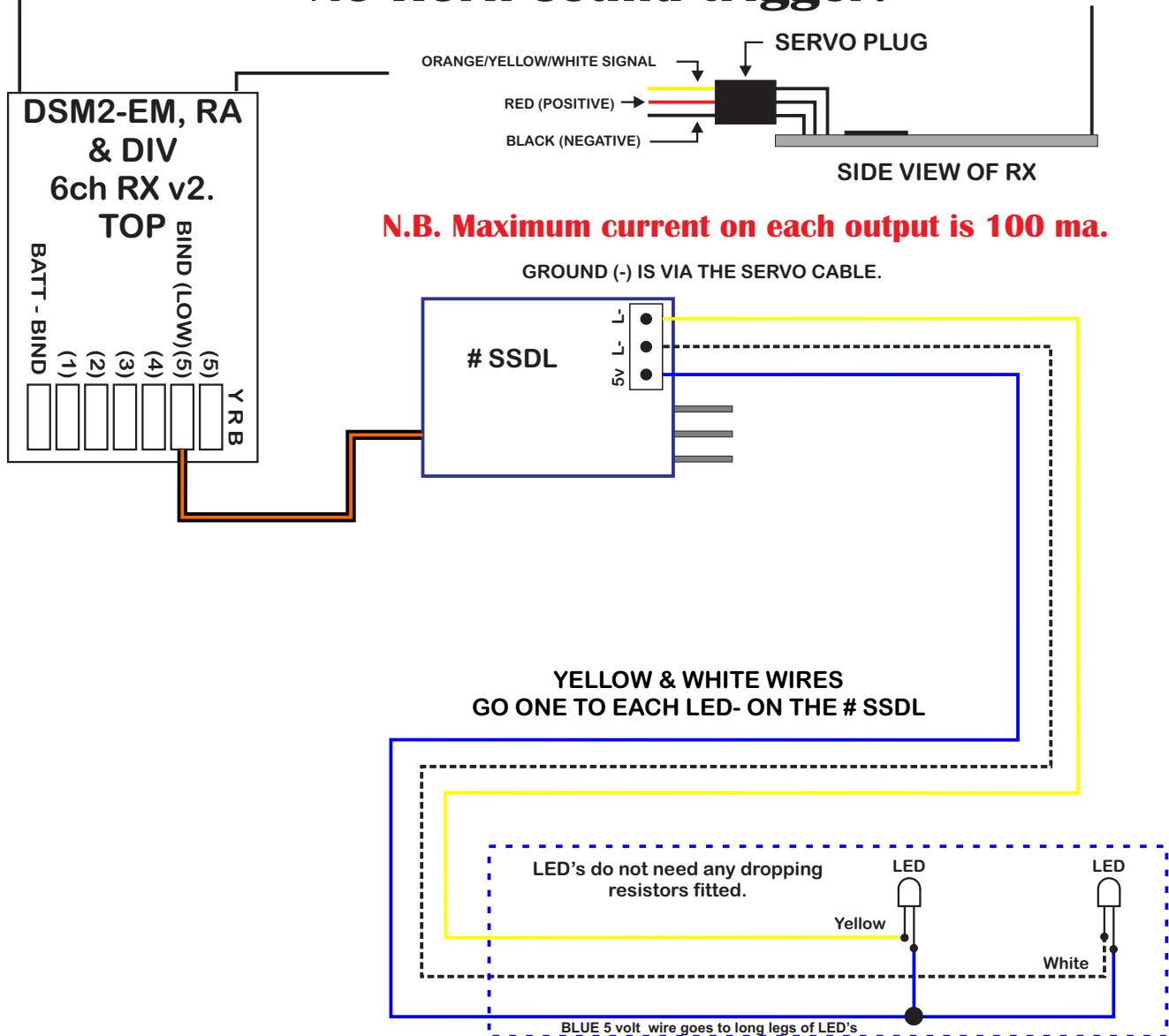
N.B. Maximum current on each output is 100 ma.



IF THE SOUND SYSTEM HAS TWO HORN TRIGGERS YOU CAN USE:
 A. GRADE CROSSING SEQUENCE. REAL LIFE DITCH LIGHTS FLASH.
 B. MANUAL STOP START & YARD TOOTS. DITCH LIGHTS NOT FLASHING.



WIRING THE RCS #MRW-SSDL w/LED's for manual Ditch Lights using Ch # 5. No Horn sound trigger.



IDEAL WHERE THE SOUND SYSTEM HAS ONLY ONE HORN SOUND FUNCTION.

ONE ADVANTAGE OF DIGITAL PROPORTIONAL R/C IS YOU CAN OPERATE MULTIPLE FUNCTIONS AT THE SAME TIME.

- A. ONE CHANNEL, F1 (on Ch # 2) FOR THE HORN TRIGGER ONLY.
 - B. CH # 5 FOR THE DITCH LIGHTS TRIGGER ONLY.
- OR PRESS BOTH TOGETHER FOR MORE CORRECT PROTOTYPE OPERATION.

THAT WAY YOU CAN USE THE HORN BUTTON JUST FOR YARD SIGNALS OR FOR A GRADE CROSSING WITH DITCH LIGHTS.