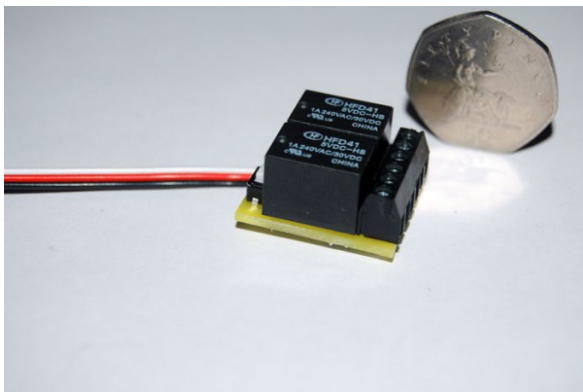


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MRW-RDS

by Model Radio Workshop



Congratulations on buying the Remote Control Systems Dual Relay R/C Switch. If you treat it with respect it will reward you with many years of trouble free service. Operating voltage is 4.4v to 6.3 v. There are no user serviceable parts.

FEATURES

Two relays are controlled by one channel. This can be with a proportional knob on channel # 3 on all Dual Use Tx handpieces or with Ch # 2 & Ch # 4 on a TX-5 or Ch # 4 only on a TX-9.

Where fitted you can also use pushbuttons F1 - F2 or F3 - F4 on an RCS Tx-handpiece. ALPHA, BETA or GAMMA handpieces can only use pushbuttons.

Each relay can be individually controlled. Latching or non-latching operation can be selected. See below.

INSTRUCTIONS

Plug the Relay switch flying lead into the selected channel on your receiver. F1-F2 = Ch # 2 or F3-F4 = Ch # 4. They are ideal for triggering LGB sound systems. Switch on the transmitter first and then the receiver.

The MRW R/C switches will work correctly with all RCS Receivers.

If using other brands of Rx's please make sure that the channel you are using has the end point/travel adjustments set to 100%. i.e. 1 ms - 2 ms. A wider spread will not work.

If you don't, you may find that one side will not switch on and off.

The action can be latching or non-latching on both relays.

With non-latching action, the output remains on only while the knob is held twisted or the pushbutton remains depressed. Non latching must be set when using the # MRW-RDS for driving small motors or switching polarity of constant battery voltage.

With latching action, the output remains on even when the knob is returned to neutral or pushbuttons released. A second application of the function is required to turn it off.

N.B. Latching action must not be used when employed to act as in page # 3.

N.B. The # RDS can also be used for changing battery polarity to control the internal electrics of USAT locos. Be aware that when using an # OMEGA-10 to control the motors the direction control knob on the RCS handpiece also controls momentum. Make sure the direction control knob is twisted far enough to also switch on the USAT loco lights.

SET-UP

Move the knob - pushbutton to maximum on one side of neutral or press one function to confirm that the latching action has been set. The output controlled by that stick - knob - pushbutton direction changes from latching to non-latching or from non-latching to latching each time the key is pressed.

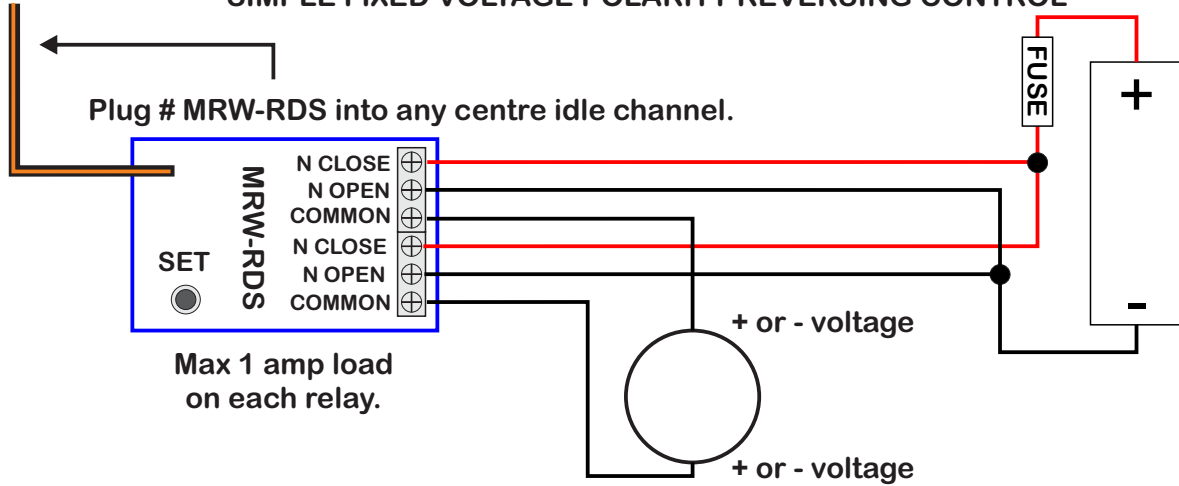
The unit remembers the setting and they will be retained until another output invert operation is performed.

SAFETY

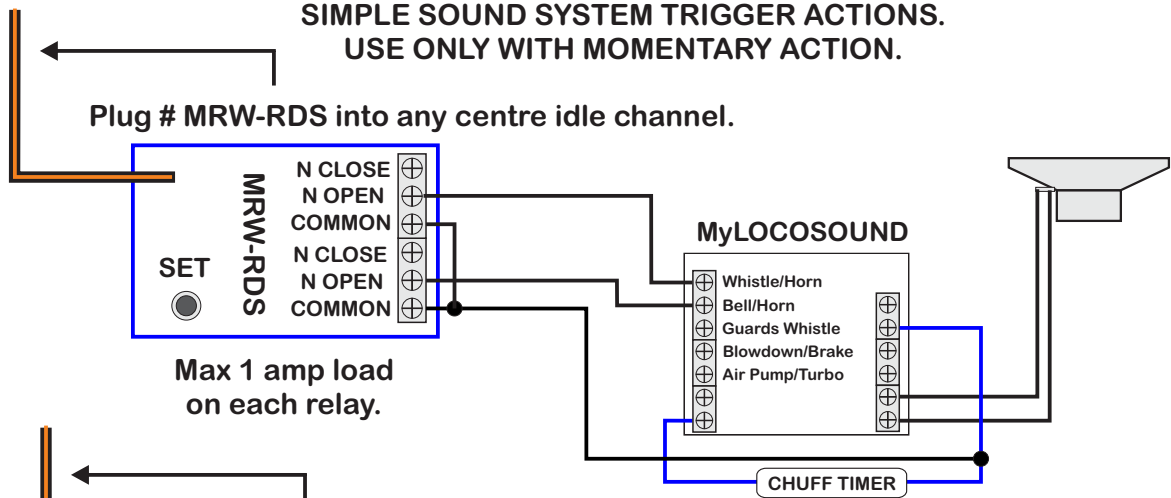
Please ensure that the SET key cannot be pressed accidentally while the unit is in use.

Made in the UK by Model Radio Workshop (# RCS03)

SIMPLE FIXED VOLTAGE POLARITY REVERSING CONTROL

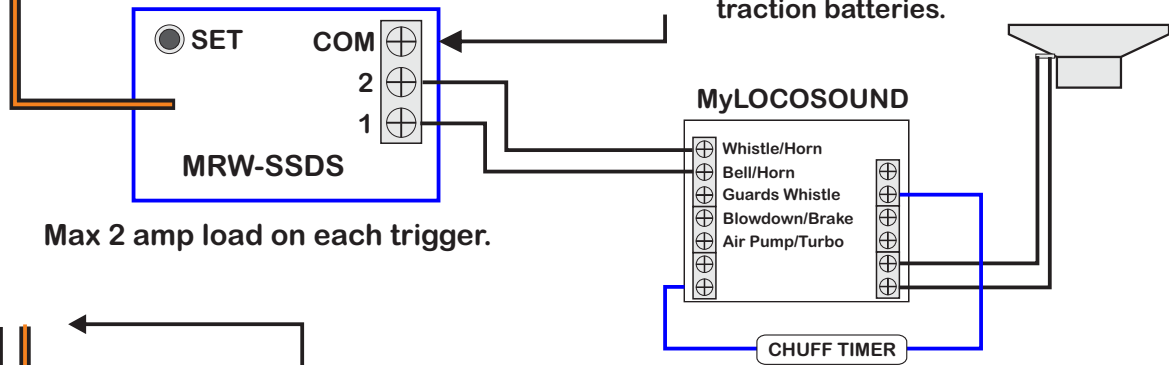


SIMPLE SOUND SYSTEM TRIGGER ACTIONS. USE ONLY WITH MOMENTARY ACTION.



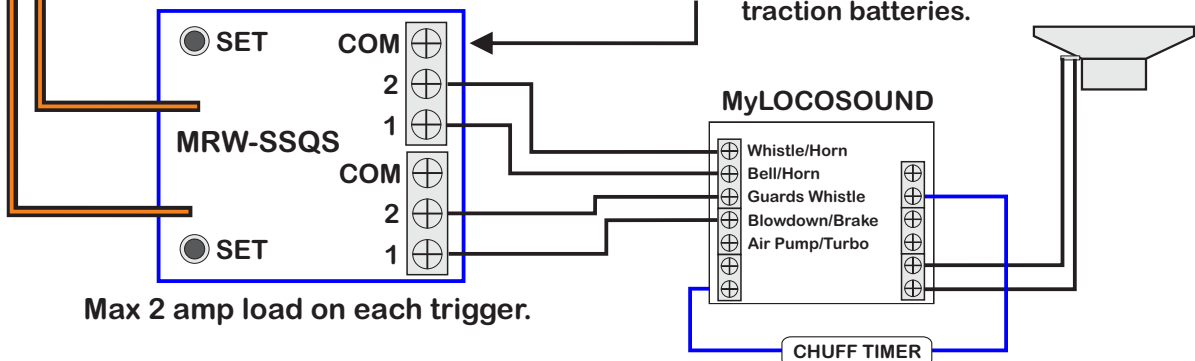
Plug # MRW-SSDS into any spare channel with a centre idle.

No common ground connection is needed as long as sound is powered by the traction batteries.



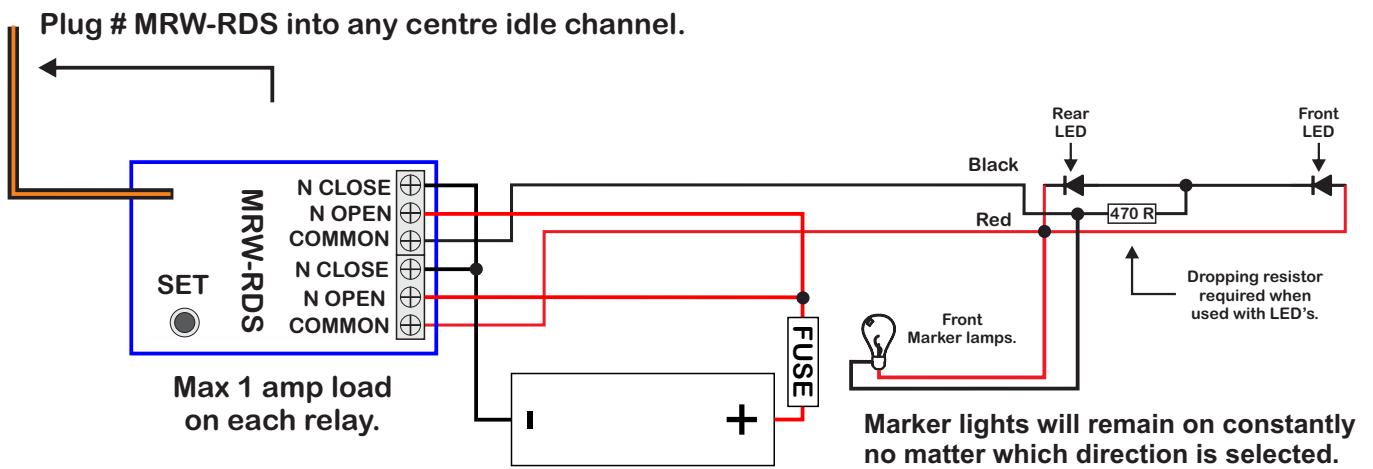
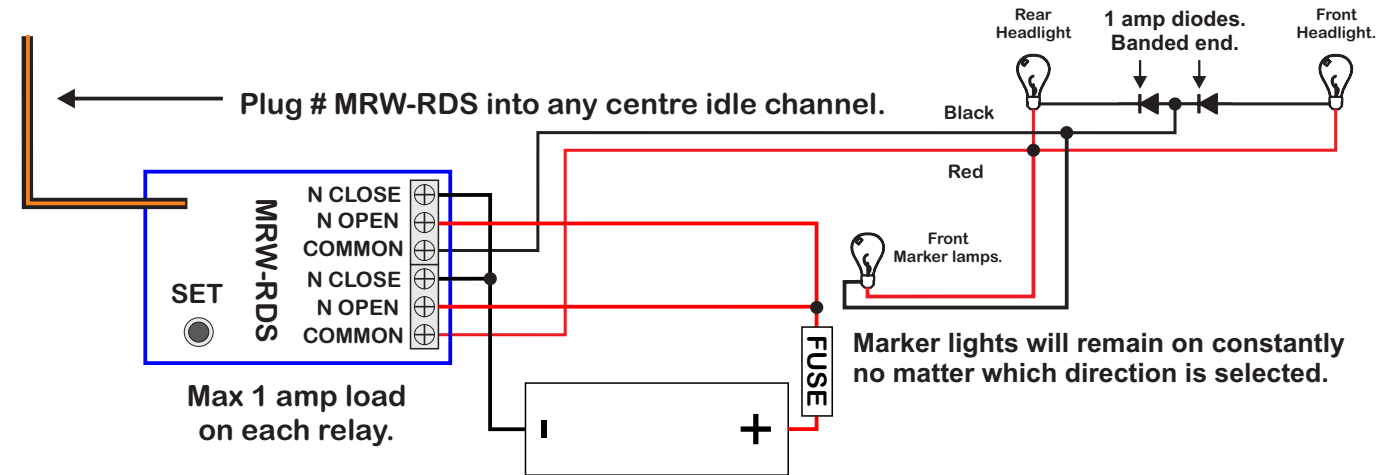
Plug # MRW-SSQS into any spare two channels with a centre idle.

No common ground connection is needed as long as sound is powered by the traction batteries.

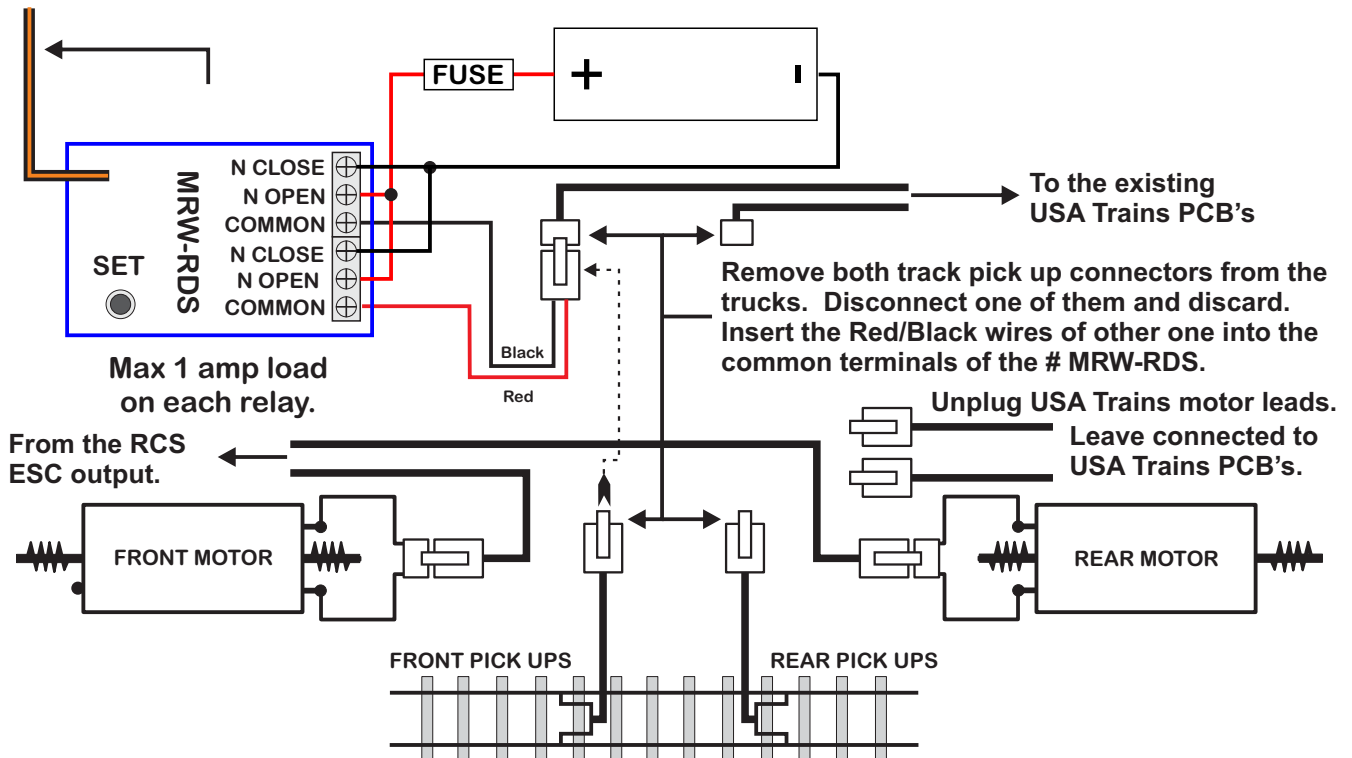


WIRING # MRW-RDS FOR VERSION #1.

USE ONLY WITH CHANNELS THAT CAN BE SET INTO POSITION. I.E. CH # 3 ON ALL TX's OR TX-5 OR TX-9 KNOB CONTROLS. SET DIRECTION BEFORE OPENING THROTTLE.



WIRING # MRW-RDS FOR VERSION #2.



WIRING THE RCS #MRW-RDS between a DSM2-MINI & LED's or BULBS when using VIPER ESC's.

