LIST OF PARTS

- Split Jaw Reversing Unit, Model 100-C1
- Power Supply, 5V DC / 1AMP Regulated
- Two, 1 amp, 3 amp and 5 amp Stop Diodes
- Two 5 AMP Replacement Fuses (ATC-5)

OTHER PARTS THAT YOU WILL NEED

- 2 Insulators
- Small flat blade screwdriver to connect the wires
- Soldering iron (for diode installation)

SPECIFICATIONS

- Delay 1 to 99 seconds
- Input voltage: 24 V DC max.
- Output current: 5 AMP max.
- Two auxiliary outputs 4V DC, 50MA max.

1 Year Warranty

SplitJaw Products, Inc. guarantees this unit for the period of one year from the date of original retail purchase. Any unit that fails to function properly under normal use when installed and operated according to the instructions will be repaired or replaced with a unit of comparable value, at Split Jaw Products' option, without charge. In the event service is required, the product must be delivered, transportation prepaid, within the warranty period. Proof of purchase date and an explanation of the complaint must accompany the unit. You will be responsible for removal and installation of the product. Split Jaw Products, Inc. will pay for the cost of returning the repaired or replaced product to you within the United States.

This warranty does not cover the box or any appearance item, or any damage to the product resulting from alterations, accident, misuse or abuse. This warranty does not cover the cost of labor, which would be otherwise provided without charge under this warranty, obtained from any source other than Split Jaw Rail Clamps. This warranty does not cover defects or damage caused by the use of unauthorized parts or labor. We shall in no event be liable for injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you.

Date Purchased Model # Serial# KEEP THIS INFORMATION AND SALES RECEIPT IN A SAFE PLACE

SplitJaw Products, Inc. PO Box 90146

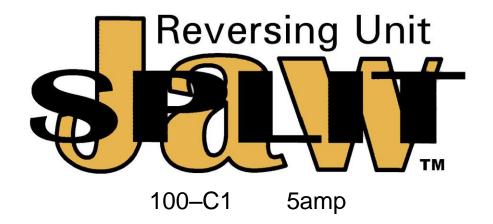
Portland, OR 97290-0146

Phone: 503-762-4822 Fax: 503-761-2311 www.railclamp.com

E-mail: splitjaw@railclamp.com

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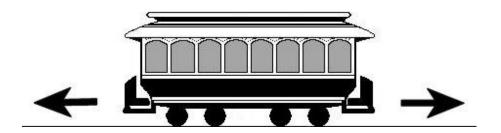


This unit works with **all** DC powered trains: Z through G Scale

The SplitJaw Reversing Unit is a solid state electronic device that automatically reverses the train's direction. When the reversing unit senses a **total** lack of current flow, it starts the timer count down. Polarity reverses when the display reaches zero (0). This causes the status of the insulated ends to reverse. Diodes are used to connect the insulated ends to the powered rail. The unit also has two reversing outputs that can be used to indicate travel direction by powering signal lights or to operate auxiliary relays for automation purposes.

OPERATION

When the SplitJaw Reversing Unit senses a lack of current flow, the timer for the reversing function starts. Therefore, travel time and the distance traveled between destinations, are not relevant. See figure B for an example of how to set-up multiple destinations. The two buttons control the amount of the time delay. By holding down the appropriate button the timing will ramp up or down. The setting will be retained when the unit is turned off. The delay time is shown only while the engine is running, because when the engine stops the display shows the timer counting down.

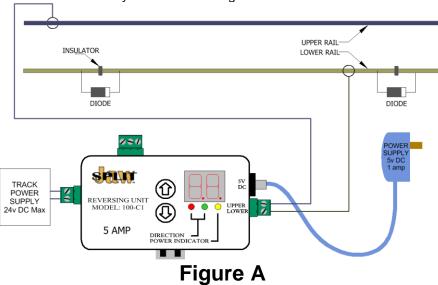


QUALITY

Each SplitJaw Reversing Unit is made from only high quality, commercial grade components. Each unit is thoroughly tested before shipping.

Some of the possible uses for the SplitJaw Reversing Unit are:

- Wall or bookcase display track
- · Break-in or test track for new engines
- Independent "to and fro" operation of trolley or other layout "effects"
- Christmas tree layout without having to circle the tree



HOOK-UP INSTRUCTIONS

Please follow the step by step instructions below. Figure A shows the typical straight track layout.

- 1. Isolate the end rails Install an insulator at each end of the rail segment. Insulating the rails causes the train's engine to stop at that point on the track. Refer to figure A for placement. Make sure the stopping zone is long enough to accommodate the engine of the train in the forward motion and the engine with the additional cars in the reverse motion. All powered cars must exit the powered rail before the timer will start.
- Install diodes Connect stop diodes to the rail on both sides of each insulator. <u>Important</u>: Make sure the white bands of both diodes are pointing in the same direction as indicated in Figure A.

- G-scale: install as shown
- N, HO, & O scales: install with the white band on the left.
- Connect power leads- Connect the DC output wires to the track anywhere between the two stop diodes. Refer to Figure A for connection example.

TROUBLESHOOTING

The train stops on one side and not the other:

Make sure that the white strips of the diodes are pointing in the SAME direction.

The train does not stop at the end of the track:

- Check that the diodes are pointing the same direction.
- Check that the insulators are installed correctly and are providing true isolation on the rail.

The timer does not start:

- The timer will start only after all items consuming power have moved from the powered track. Examples: Cars using track powered lighting, and end of line bumpers that are lit will consume power, keeping the unit from counting down.
- If your power supply is set to Pulse Width Control, (PWC) change to DC.

The train goes in the wrong direction when power is supplied to the insolated track section:

Reverse the direction of both diodes.

The timer counts down continuously:

- Clean the track and/or wheels of the engine.
- Check fuse and replace if needed.

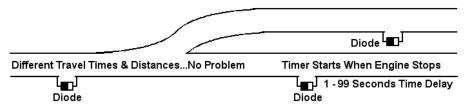


Figure B