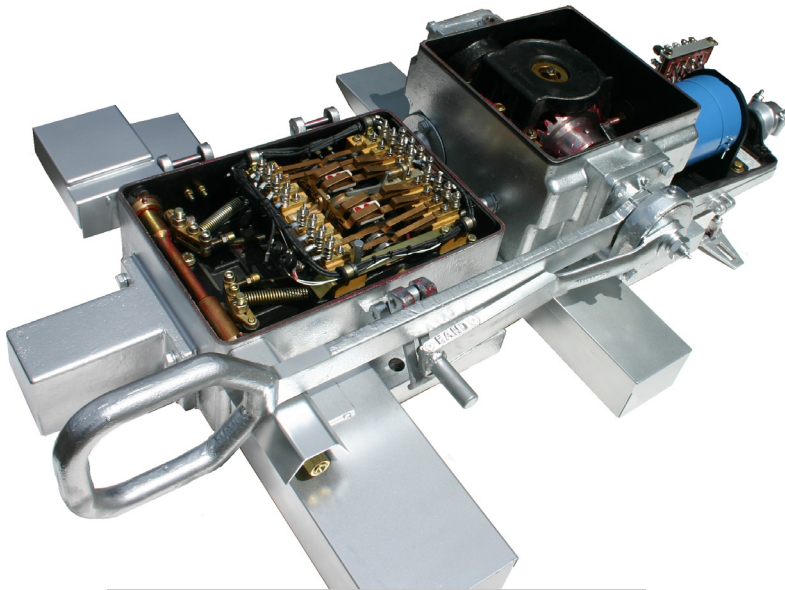




Rail Development Group

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Engineering Excellence - Pursuing Perfection 1-877 - 734 - 7245



R23 Mainline Switch Machine

The R23 switch machine is a rugged and reliable dual control electric switch machine. It is available in several different gear ratios and provides independent locking and point detection for mainline applications.

Available in 110 or 20 volt operating voltages for both 3 and 5 wire control and can be configured with either an "A" or "B" style hand-throw pinion.

Features include improved loop style hand throw for safety and an improved permanent magnet motor design for reliability..

#### Features / Benefits

- "A" or "B" Style
- Independent Lock and Point Detection
- 24 or 110 VDC Operation
- 189:1, 360:1 and 528:1 Gear Ratios
- Rugged Permanent Magnet Motor
- Mechanical Controller
- Loop Style Hand Throw for Safety
- Extended Wire Harness Available
- 24V or 110 V heaters
- 3 or 5 wire control
- Custom Colors Available
- Ships in Enclosed Crate
- Includes Gear Box Lubricant
- Completely Interchangeable with M23
- Meets all AREMA Specifications
- 7 Year Warranty

[www.raildev.com](http://www.raildev.com)

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# R-23 Configuration Guide

## R23-

A/B	Voltage	Ratio	Wiring	Indication	Det. Rod	Lock Rod	Heaters	Frame	Color

### Hand Throw Locking

- A Locks and Indicates on Hand Throw = A
- B Does not Lock and Indicate on Hand Throw = B

### Voltage (High or Low)

- H 110V - Choose H
- L 20V - Choose L

### Gear Ratio

- 3 360 = 360:1 Gear Ratio (~15 Sec)
- 5 528 = 528:1 Gear Ratio (~26 Sec)
- 1 189 = 189:1 Gear Ratio (~5 Sec, 110V)

### Control Wiring

- 3 = Factory wired for 3 wire control
- 5 = Factory wired for 5 wire control
- 7 = Special

Note: All R-23 that are wired for 3 wire control can be field converted to 5 wire control

### Left or Right Handed

- RR = Right Handed - RH Point Normally Closed
- LL = Left Handed - LH Point Normally Closed
- RL = Right Hand - LH Point Normally Closed
- LR = Left Hand - RH Point Normally Closed

### Detector Rod Type

- L = Lug with 5/8 in. Hole
- T = 1" 8-Threaded End
- N = None

### Lock Rod Type

- ST = Single Thread
- SO = Single Offset
- DO = Double Offset
- NR = Not Required/Field Installed
- NN = Not Required/Cover Plates

- H 110V Heaters, 30Watt
- L 24V Heaters, 15Watt
- N = No Heaters

### Frame Configuration

- M = 18.25 in. Wide w/ 1" Mounting Holes
- C = 18.5" Wide w/ 7/8" Mounting Holes

### Color

- B Black
- S Silver
- C Custom

