

CONSISTING

When operating locomotives in multiple, a Lenz throttle must be used to assemble or disassemble the consist. All locomotives to be operated in multiple must be in the throttle's loco stack. Each locomotive must be set to run in the correct direction within the consist.

Locomotives may be assembled in a double header or in a multi unit consist. A multi unit consist requires a two-digit consist address. The last digits of the first and last locomotives are typically used (ie. the two-digit address for Engines 804-807-812 would be 42).

A multiple unit consist can be operated using the engine number of any locomotive in the consist, or the two-digit consist address. The engine number of the lead locomotive is typically used.

To Assemble Double Header:	ENG	<input type="checkbox"/> M	Scroll to Double header
(consist address not required)	1	<input type="radio"/>	Press rotary knob to select
		<input type="checkbox"/> 3	Enter ENG 2 road number
		<input type="radio"/>	Press rotary knob to select
To Disassemble Double Header:	ENG	<input type="checkbox"/> M	Scroll to Double header
	1 / 2	<input type="radio"/>	Press for disassembling
		<input type="checkbox"/> Esc	Press to cancel security query
		<input type="radio"/>	Press to confirm disassembly
To Assemble MU Consist:	ADD	<input type="checkbox"/> M	Scroll to Multi unit consist
(consist address required)	ENG	<input type="radio"/>	Press rotary knob to select
		<input type="radio"/>	Scroll to MU Loco assembling
		<input type="radio"/>	Press rotary knob to select
		<input type="checkbox"/> 3	Enter the MU consist address
		<input type="radio"/>	Press rotary knob to confirm
To Disassemble MU Consist:	DEL	<input type="radio"/>	Scroll to MU Locos delete
	ENG	<input type="radio"/>	Scroll to select loco address
		<input type="radio"/>	Press to confirm selection
	DEL	<input type="checkbox"/> M	Scroll to Multi unit consist
	MU	<input type="radio"/>	Press for disassembling
		<input type="radio"/>	Scroll to MU consist delete
		<input type="radio"/>	Scroll and press knob to add locos
		<input type="checkbox"/> Esc	Press to cancel security query
		<input type="checkbox"/> M	Press to complete assembly process
		<input type="radio"/>	Press to confirm disassembly

OPERATING MANUAL



**MODEL RS-3
1600 HP ROAD SWITCHER**

**MODEL RS-10
1600 HP ROAD SWITCHER**

**MODEL RS-18
1800 HP ROAD SWITCHER**

**MODEL M-420 / M-420B
2000 HP ROAD SWITCHER**

**MODEL C-420
2000 HP ROAD SWITCHER**

**MODEL C-425
2500 HP ROAD SWITCHER**

**MODEL C-630M / M-630 / M-630W
3000 HP ROAD SWITCHER**

OPERATING MANUAL

FOR

Model RS-3 Road Switcher
Model RS-10 Road Switcher
Model RS-18 Road Switcher
Model M-420 / M-420B Road Switcher
Model C-420 Road Switcher
Model C-425 Road Switcher
Model C-630M / M-630 / M-630W Road Switcher

This manual covers basic operating instructions to assist the engineman in the efficient handling of the locomotives.

Information pertaining to the throttles, acquisition of locomotives, functions, and consisting is contained herein.

THROTTLES

The layout is controlled with a Lenz DCC system and CVP wireless throttles. A WiThrottle server is available for those who would like to use their phones.

Lenz LH101 throttles are plugged into the XpressNet fascia plates.

CVP T5000e throttles are connected wirelessly to the ALR900 receiver.

Wireless devices can be connected to the Wi Throttle server. Instructions are as follows:

Select the following Wi Fi network: BCRDawsonSub
Enter the correct password: Chetwynd1977
Start the app on your device: Engine Driver or Wi Throttle
If necessary, enter the server: 192 168 0 100
If necessary, enter the port: 12090

ACQUIRING A LOCOMOTIVE

Lenz LH101 Press LOCO button and scroll through stack, press LOCO to select.
CVP T5000e Press green ENT button, type in loco number, press ENT to select.

BASIC CONTROLS

Lenz LH101 Arrow at left indicates direction; push rotary encoder to change direction.
Scroll rotary encoder to notch up or down. Speed table on rear of throttles.

CVP T5000e Arrow at right indicates direction, push rotary encoder to change direction.
Scroll rotary encoder to notch up or down. Speed table on rear of throttles.

SPEEDMETER

The Lenz LH101 throttles have 28 speed steps. Speed steps up to 25 are half the scale m.p.h. The CVP T5000e throttles have 32 speed steps. Speed steps x from 1.4 to 1.75 = scale m.p.h.

DRIVE HOLD

To engage Drive Hold, select F9 and scroll encoder to notch up to desired throttle setting. The train will remain stationary. Press F9 again to release Drive Hold and start moving the train. The train will slowly accelerate as if under load up to the selected throttle setting.

DYNAMIC BRAKES

To engage Dynamic Brakes prior to descending a grade, select F4. Press F4 again to release Dynamic Brakes. This function has been disabled on RS-3 and RS-10 model locomotives which were not equipped with dynamic brakes.

FUNCTION CONTROLS

Locomotives equipped with ESU LokSound Micro Select V4.0 decoders:

Model RS-3, C-420, C-425, C-630M, M-630, M-630W

Locomotive functions as follows:	F0 = front light	F5 = rear light
(for ESU LokSound decoders)	F1 = slow bell	F6 = ditch lights
	F2 = K3 or K5H horn	F7 = cab light
	F3 = coupler	F8 = prime mover
	F4 = dynamic brakes	F9 = drive hold

Note: All lighting functions (F0, F1, F5, F6, F7) are independent of direction.
F1 Bell is set to continuous; press once to turn on, press again to turn off.
F2 Horn is temporary; press and hold to turn on, release to turn off.

On the RS-3 model locomotives: F6 = inspection lights below the cab.

Locomotives equipped with TCS M4 non-sound decoders: Model RS-10, RS-18

Locomotive functions as follows:	F0 = front light	F3 = rear light
(for TCS M4 non-sound decoders)	F1 = front aux lights	F4 = rear aux lights