

SUNRISE CREDIT BOARD for FALGAS M89M Ride Controller

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Follow these instructions to connect a multi denomination coin acceptor to any kiddie ride incorporating the Falgas M89M controller. The controller cannot accept multiple credits, so the SUNRISE board is used to buffer the credit and control the flow of credit pulses to the Falgas M89M.

A Sunrise 6 digit CREDIT DISPLAY may be connected to show coins in and number of rides.

The credit board, display and the coin acceptor draw power from the Falgas controller. An extra power supply is not needed.

NRI CONNECTOR. The 10 pin box header may be connected to a NRI, QL or C120 coin mechanism, for 10c, 20c, 50c, \$1, and \$2 operation. Alternatively, coin switches may connect to the designated edge connector pins.

COIN METER. All coin registrations are accumulated as 10 cent units on a single coin meter. Connect coinmeter between 12 volts and Coin Meter Output . No diode is needed, the credit board contains an internal protection diode.

ALARM Anti Stringing Alarm. Triggered if coin switch closed longer than 250 mS. This open collector output may be connected to a general purpose Piezo Screamer, (-) lead to credit board, (+) lead to +12 volt supply.

DISPLAY DATA, CLOCK.The optional 6 digit display shows \$-c inserted and the number of rides.

SERVICE CREDIT SWITCHinput, allows a push button switch to give free credits for testing the game without incrementing coin meter.

DIP SWITCH SETTINGS

N = on, F = off

DIP SW 12345678	1st credit, bonus credit	DIP SW 12345678	1st credit, bonus credit
FFFFFFFF	10c=1	FNFNFNNF	\$1=1, \$2=4
FNFFFFFFFF	20c=1	FFFNNNNF	\$1=1, \$4=6
FFNFNFNF	20c=1, 40c=3	FNNNFNNF	\$1=1, \$5=6
FNNFNFNF	20c=1, \$1=6	FFFNFNNF	\$2=1
FFNFNFNF	20c=1, \$1=7	FNFNFNNF	\$2=1, \$3=2
FNFNFNFNF	40c=1	FFNFNFNF	\$2=1, \$3=2, \$5=4
FFNFNFNF	40c=1, 60c=2, 80c=3, \$1=4	FNNNFNFNF	\$2=1, \$4=3
FNNNFNFNF	40c=1, \$1=3 (\$2=6)	FFNFNFNF	\$2=1, \$4=3, \$5=5
FFFFNFNF	40c=1, \$1=3, \$2=7	FNFNFNNF	\$3=1
FFFFNFNF	40c=1, \$1=3, \$2=8	FFNFNFNF	\$3=1, \$5=2, \$7=3
FNFNFNFNF	40c=1, \$1=3, \$2=9	FNNNFNFNF	\$3=1, \$5=2, \$10=5
FFNFNFNF	40c=1, \$1=4 (\$2=8)	FFFFNFNF	\$3=1, \$5=2, \$8=4, \$10=6
FNNNFNFNF	40c=1, \$1=4, \$2=9	FNFNFNFNF	\$4=1
FFNFNFNF	40c=1, \$1=4, \$2=10	FNNNFNFNF	\$4=1, \$8=3, \$12=5
FNFNFNFNF	50c=1 (\$1=2, \$2=4)	FNFNFNFNF	\$4=1, \$6=2
FFNFNFNF	50c=1, (\$1=2), \$2=5	FFNFNFNF	\$4=1, \$6=2, \$8=3
FNNNFNFNF	50c=1, \$1=3 (\$2=6)	FFNFNFNF	\$4=1, \$7=2, \$9=3
FFFFNFNF	50c=1, \$1=3, \$2=7	FFNFNFNF	\$4=1, \$10=3
FFNFNFNF	60c=1	FNFNFNFNF	\$4=1, \$7=2, \$10=3
FNNNFNFNF	60c=1, \$1=2 (\$2=4)	FFNFNFNF	\$5=1
FFNFNFNF	60c=1, \$1=2, \$2=5	FNFNFNFNF	\$5=1, \$8=2
FNFNFNFNF	60c=1, \$1=2, \$3=7, \$4=10	FFNFNFNF	\$5=1, \$10=3
FFNFNFNF	80c=1	FNNNFNFNF	\$5=1, \$10=3, \$15=5
FNNNFNFNF	80c=1, \$2=3	FFNFNFNF	\$6=1
FFFFNFNF	80c=1, \$2=3, \$5=8	FNFNFNFNF	\$7=1
FNFNFNFNF	\$1=1, (\$2=2)	FFFNFNFNF	\$8=1
FFNFNFNF	\$1=1, \$2=3	FNFNFNFNF	\$9=1
FNNNFNFNF	\$1=1, \$2=3, \$3=5	FFNFNFNF	\$10=1
FFNFNFNF	\$1=1, \$2=3, \$5=8		
FNFNFNFNF	\$1=1, \$2=3, \$4=7		
FFNFNFNF	\$1=1, \$2=3, \$4=7, \$5=10		
FNNNFNFNF	\$1=1, (\$2=2) \$3=4		

Wiring Diagram.

Leave all wiring as original, except for cutting the red wire, adding wires as shown.
Set the Falgas COST dip switch to all off.

