CREST/ARISTO-CRAFT RCC REMOTE SWITCH DEVICE 2.4 GHZ
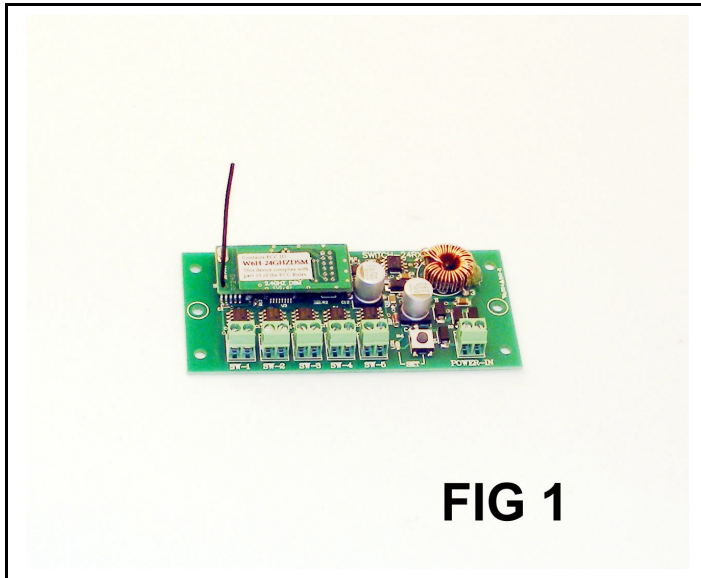
INSTRUCTION MANUAL CRE 57074

Features

1. Five Switch Ports
2. Multi-SW Functions [1T0 5]
3. Polarity Protection
4. Switch Type Speeds [FAST / SLOW]
5. Switch in Use Busy Signal
6. Timer settings [.5s To 5.0s]
7. Wide operating input voltage 6v To 24v DC

System Components

A. Remote Switch Device **See Fig 1**

FIG 1

Remote Switch Device Connections
BEFORE ANY INSTALLATION; MAKE SURE THERE IS NO POWER TO THE TRACK OR TO THE REMOTE SWITCH DEVICE. The Remote Switch Device is designed to work on track power or battery power of at least 6volts DC to a maximum of 24 volts DC. This unit is self-protected for polarity and input current. Aristo Craft carries a battery box to work with the Remote Switch Device, **CRE 55612** if you do not have track power available.

This Remote Switch Device will handle from one to five switches or accessories each.

Switches
In the front of the Remote Switch Device there are six terminals five for switch hookups "**SW -1 / SW –5**" and one for power input "**POWER –IN**". The Remote Switch Device will work with the fowling switches:
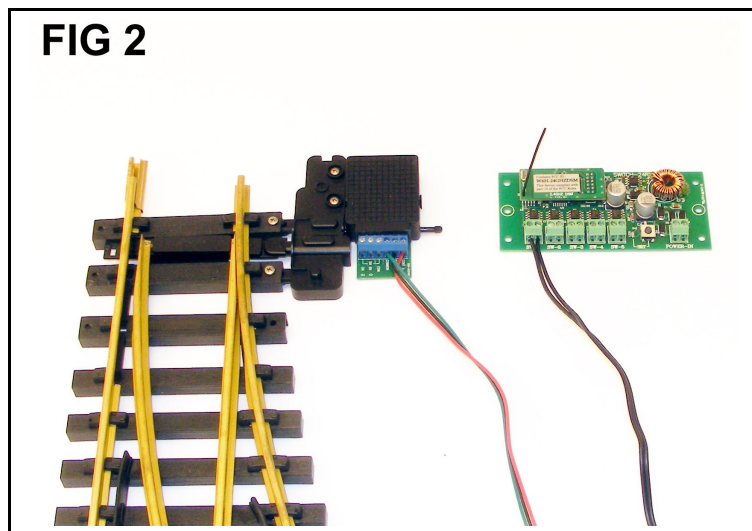
1. Art 11298 Switch Machine Slow Motion New
2. Art 11299 Switch Machine Old
3. LGB switches [TM of Marklin]
4. Most Other G Gauge Switch Machines

Switch Hookups
The Art 11298 Switch Machine Slow Motion comes with wires to connect to the switch machine and to the Remote Switch Device. *Do not disconnect the toggle switch from the wires*; this will cause the switch not to work properly even when using with a Remote Device.

The red wire is hooked up to terminal **A**, the black wire is hooked up to terminal **B** and the green wire is hooked up to the **common** terminal on the slow motion switch machine. Cut the Plug on the black wires and connect it to the desired terminals marked "**SW -1 / SW –5**" on the Remote Switch Device.
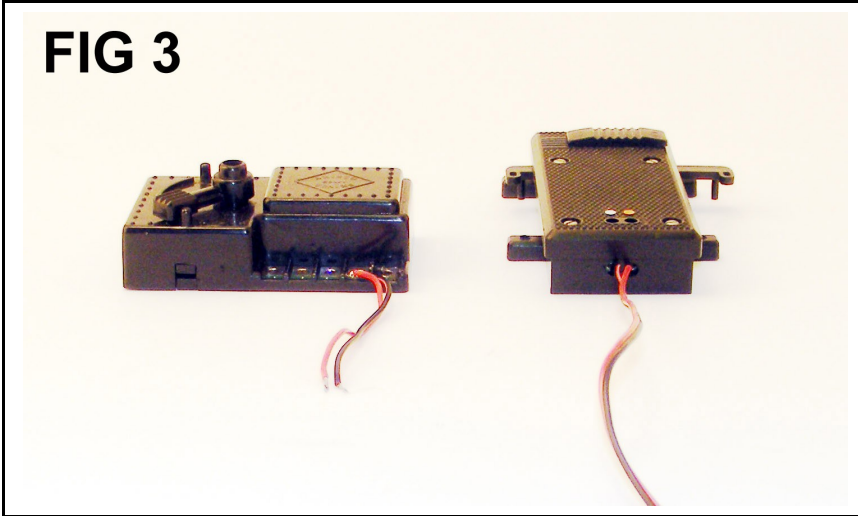**Note: The slow motion switch machine works on the SLOW setting only**. **See Fig 2**

FIG 2

The Art 11299 switch machine and LGB Switches [TM of Marklin] use two wires to hook up on the switch machine and Remote Switch Device.

Note: These switch machines work on the FAST setting only. See Fig 3

FIG 3

Power Supply

The Remote Switch Device can be connected directly to a power supply 6 volts to 24 volts or anywhere from your track layout. This unit can also use battery power 6 volts to 24 volts. Aristo Craft carries a battery box to work with the Remote Switch Device, **CRE 55612** if you do not have track power available.

In the front of the Remote Switch Device there are six terminals five for switch hookups "**SW -1 / SW –5**" and one for power input "**POWER –IN**". Take the two wires from the power supply and connect it to the terminal on the Remote Switch Device marked "**POWER –IN**" Power Input.

DO NOT HOOK THE POWER WIRES ON THE FIVE TERMINALS MARKED "SW -1 / SW – 5" SWITCH. THIS WILL BURN THE MAIN BOARD OR CAUSE A SHORT.

Note: This unit is built with polarity protection

Linking the Remote Switch Device to the Transmitter

1. Press the menu button once to select Assign Function on the transmitter.
2. Press the Stop/Enter button to enter Assign Function.

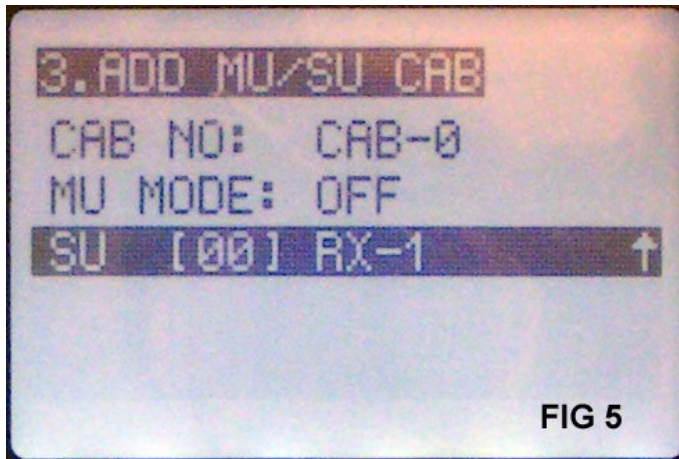Scroll down to choose the functions below:

a. **Bind Address [00**] Each Remote Switch Device must have its own bind address number.
b. **Rx TYPE**: [**ACESS]** select ACESS by pressing the left or right arrow. This function must selected when operating the Remote Switch Device.
c. **NAME**: [**RX –1**] Enter a name for the Remote Switch Device. Each device must have a name before returning to the main LCD screen. Names recommend to enter for the Remote Switch Device, [RX –1, RX –2, RX –3 etc]

d. **SW-TYPE:** [**1 –SLOW**]: choose "FAST or SLOW" for the switch machines. Some switch machine need different setting for proper operation. To change the settings on the switch machines, [SW –1, SW –2, SW –3, SW –4, or SW –5], choose the switch desired and press the number on the key pad. Press the right or left arrow on the key pad to change the settings

e. **TIMER:** [**1.0s**] choose the time you want the switch to throw from "0.5 second to 5.0 second by pressing the right or left arrow on the key pad.

f. **MULTI-SW "OFF"**: Change this to "**ON**" use this function to activate two, three, four or all five switch machines at the same time.

g. **LINKING** – Press the link button on the Remote Switch Device for until the red LED light starts to flash. Let go of the link button and press the "Stop/Enter" button the transmitter. After a few seconds the red LED will stop flashing and the transmitter will show PASSED on the LCD screen. You are now linked and ready to operate you switch machine. **See Fig 4**
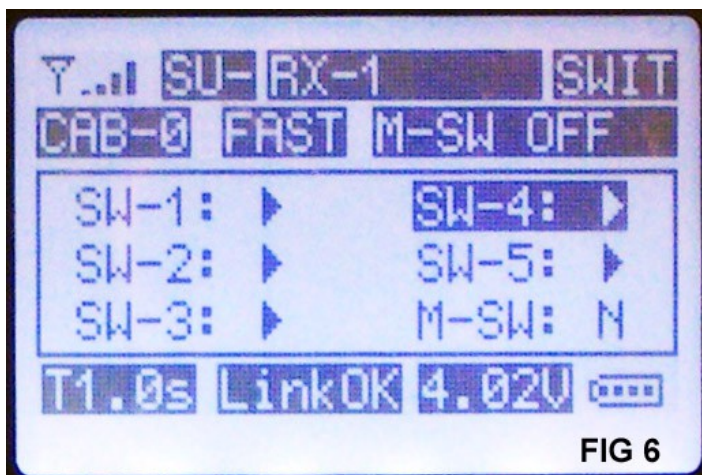

FIG 4

Add the Remote Switch Device to the Main LCD Screen to _Enable_ This Use.

1. Press the Menu button once to go to Main Set Up screen to add your Remote Switch Device to the Main Screen.
2. Scroll down to **Add MU/SU CAB** and press the Stop/Enter button
3. **CAB NO: CAB –0,** Choose a cab number to operate the Remote Switch Device from "-0 to 49". Each Remote Switch Device must have its own Cab number.
4. Scroll down to "**SU [00] RX-1**" mode and Select the Bind Address numbers that enter for the Remote Switch Device. **See Fig 5**

FIG 5

Return to the main screen on the Transmitter

    a. Press the Menu button twice on the transmitter to return to the main screen. The Remote Switch Device screen will show up. **See Fig 6**

FIG 6

Functions Displayed on the Transmitter LCD Screen
The main screen will give you a great detail of information about the switch entered.
First line on the main LCD screen:

      Strength of the **antenna / signal**
      SU –Single Unit
      RX –1: Remote switch Device name
      Switch –which RX-Type enter

Second line on the main LCD screen:

      Cab –0 this is the cab number that is entered
      Fast –this shows which switch machine is set to **Slow or Fast** operation
      M –SW OFF –this show multi switch function ON or OFF

Third line on the main LCD screen:

    SW –1:   shows the first switch and direction
    SW –2:   shows the second switch and direction
    SW –2:   shows the third switch and direction
    SW –4:   shows the fourth switch and direction
    SW –5:   shows the fifth switch and direction
    M –SW: shows the multi switch OFF or ON

Forth line on the main LCD screen:

    T 1.0s: shows the Time setting for all of the switch machines.
    Link Ok: This indicates that there is a good radio link between the transmitter and the
     Remote Switch Device
    4.06V –shows the TX battery voltage

Remote Switch Device operation SU

Operate a single switch machine, SW –1:

    Press the left or right arrow on the transmitter to activate the switch machine

Operate five switches individually, [SW –1, SW –2, SW –3, SW –4, SW –5,]

    Press the left or right arrow on the transmitter to activate the switch machine
    Press the top or bottom arrow on the transmitter to choose a switch or press the number
     [1 –5] on the transmitter key pad to choose a switch.
    To activate two or all five switches at the same time turn the [**MULTI-SW] function
     "ON"** and press the right arrow to add the switch machines.

Select individual Remote Switch Device

    To select a Remote Switch Device, press the Press the **<<T key** to scroll left and the
    T>> key to scroll to the right.

SW-BUSY

    When the direction button is pressed and the switch machine is in motion a switch busy
    signal will show up where 'link ok' is. The switch busy signal will go away after all the
    switch machine completes time setting. It is recommend to wait until the switch busy
    signal completes and then press the other direction necessary.

Switch Machine Direction

The arrow on the transmitter shows the direction of the switches. You only need to set up the switches once on the Remote Switch Device. The wires can also reverse on the Remote Switch Device to change the operating direction of the switch.

Multi Switch Operation
Press the Menu button once to turn on this function choose Assign Function and press the stop/enter button.

Scroll down to [**f. MULTI –SW** [**OFF**] and press the right arrow on the transmitter to turn on the multi functions. When this function is turn on you will see [1 2---] you are now on multi mode. To add more switch machines to the multi mode press the right arrow [12345].

To remove the switches from the multi mode function press the left arrow.

Press the menu button twice to return to the main screen.

On the main LCD screen you will see M –SW 12345

SW-BUSY

> When the direction button is pressed and the switch machine is in motion a switch busy signal will show up where 'link ok' is. The switch busy signal will go away after the switch machine completes the time setting. It is recommend to wait until the switch busy signal completes and then press the other direction necessary.

Note: The multi mode function will operate the switch machines from one through five. It will not operate the switch machines from five to one as a reverse order.

MUing Remote Switch Device
Before any Remote Switch Device MUed, each Device must have a Bind Address number and Link to the transmitter. Follow the instructions on **Linking the Remote Switch Device to the Transmitter**
MUing More Than One Remote Switch Device

> **Select a different Cab number to MU the Remote Switch Devices**
> Example: If you have four Remote Switch Devices under CAB 1, 2, 3, 4, select Cab 5 to MU the four Remote Switch Devices.
> **All of the Remote Switch Devices MULTI –SW function must turn ON. To get to this function press the Menu button once and choose Assign Functions. Press the Stop/Enter button and scroll down to [f. MULTI –SW]. Press the right arrow until one through five shows up [12345].**
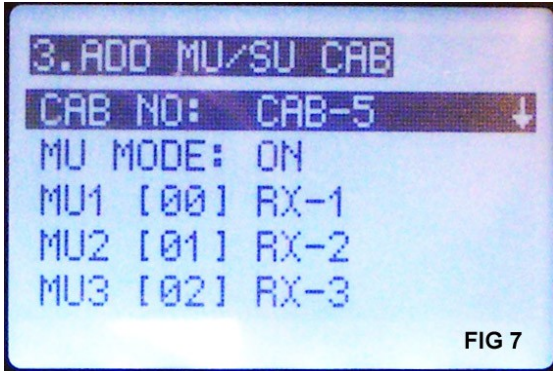> Press Menu button once to return to the Main Set Up screen.
> Select 3. **ADD MU/SU CAB** and press the stop/enter button to enter this function
> **CAB NO: CAB –0**: Chose a different **CAB NO** by pressing the right arrow

MU MODE: OFF Press the right arrow to turn the MU mode **ON**

Scroll down and press the right or left arrow to enter the Remote Switch Device desired
  from MU1 –MU6.

Press the Menu button twice to return to the main screen. **See Fig 7**

FIG 7

Remote Switch Device MU

Operate the MUed Remote Switch Devices

On the main LCD screen the highlighted area **[M –SU:]** must be on to operate all of the
  Remote Switch Device.

Press the right or left arrow and all of the switch machines will activate

When the direction button is pressed and the switch machine is in motion a switch busy
  signal will show up where 'link ok' is. The switch busy signal will go away after the
  entire switch machine reaches time settings. It's recommend to wait until the switch
  busy signal completes and then press the other direction necessary.

Press the up or down arrow to activate the switch machines on desired terminals [SW –
  1 through SW –5].

Example: Press the up arrow to "SW –1", and press the right or left arrow. All of the
  Remote Switch Devices that have a switch machine to terminal [SW –1] will activate.
  The rest of the switch machines will not activate. **See Fig 8**

FIG 8