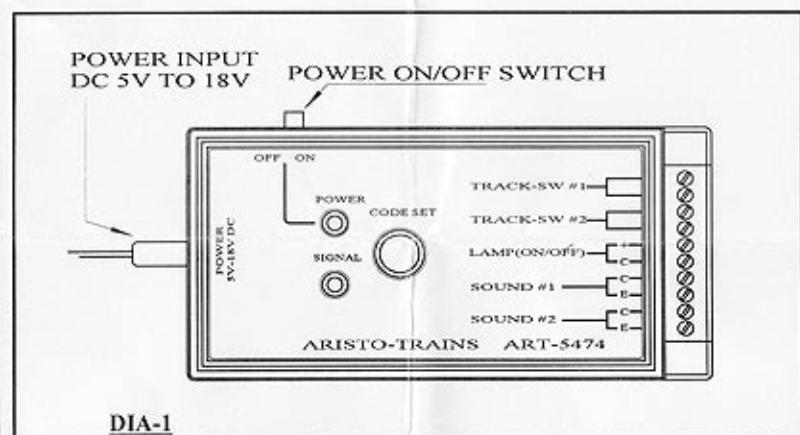


ART-5474/CRE-55474 Instruction Manual

Features

The ART-5474 Mini Accessory Receiver is a wireless radio control Microprocessor receiver to be used in concert with the ART-5470 Train Engineer. It is a multi-addressable decoder which will handle up to 50 separate commands. The ART-5474 Mini Accessory receiver has a wide voltage range of 5-18V DC, and is also designed to operate sound systems.

1. Linking the ART-5474 to the ART-5473 Transmitter



1.1 Single Press Key Mode; (Basic Mode)

* Select either the Track #1 or the Track #2 position on the ART-5473 Transmitter.*

* On the ART-5473 Transmitter **SIMULTANEOUSLY** press any one of the following keys. FAST, SLOW, FORWARD, REVERSE, or the EMERGENCY STOP, and the **CODE SET** button on the ART-5474 Mini Accessory Receiver, and wait for the LED on the ART-5474 to flash.

****Single Press Key mode allows the control of 2 different ART-5474 Receivers with one ART-5473 Transmitter by using the track #1 & #2 switch****

*2000 & new versions of Transmitter use Frequency 1 and any Track Channel (may work on Frequency 0).

Single Press Key Operational Procedures

On the ART-5473 Transmitter, press the Letter Key Pad that coincides with desired function. (See Table 1)

Table 1

Transmitter Key Code	Receiver Function
A	Track Switch #1
B	Track Switch #2
C	Lamp on/off Control
D	Sound (Whistle)
E	Sound (Bell)

2.1 Dual Press Key Mode (Advanced Mode);

Dual Press Key Mode allows you to operate a maximum of 10 different receivers all addressable from the same transmitter.

Set Up;

* Select either the Track #1 or the Track #2 position on the ART-5473 Transmitter.*

* On the ART-5473 Transmitter **SIMULTANEOUSLY** press any of the following keys. A, B, C, D, E, and the **CODE SET** button on the ART-5474 Mini Accessory Receiver and wait for the LED on the ART-5474 to flash. You have just set a **Receiver Bank**. To set multiple Banks repeat the previous instructions, assigning one letter to each new receiver in your bank.

* With a full transmitter you will have Banks on Track #1, A thru E, and Track #2, A thru E, enabling you to control 20 switches, 10 Accessories, and on and off operation; such as Lamps or Sound Systems. You will also be able to control 10 Whistles, or Horns, and 10 Bells.

*2000 & new versions of Transmitter use Frequency 1 and any Track Channel (may work on Frequency 0).

In order to control the on/off function of sound system it will be necessary to build a module. The parts are readily available at Radio Shack and the schematic is in diagram #3.

Operation:

On the Transmitter simply press any of the alphabetical Key Pads, the LED will start blinking, within 2 seconds press another alphabetical Key Pad and your command will be accomplished. An example would be; Press Key Pads A and B in quick succession, and your #2 switch will operate.

For the Function to Key Pad list see Table 1

Basic Connection Procedures:

Connect the Power input plug which is provided, directly to the Track or to any DC power source. (5 - 18 Volts)

Connect the Switch Tracks and Lamps to the ART-5474 as per Diagram-2.

Sound Board Connection Procedures:

The Lamp Control Port is available to connect the Sound Board on/off function. (See Diagram #3) Other high current applications can also be operated from this port.

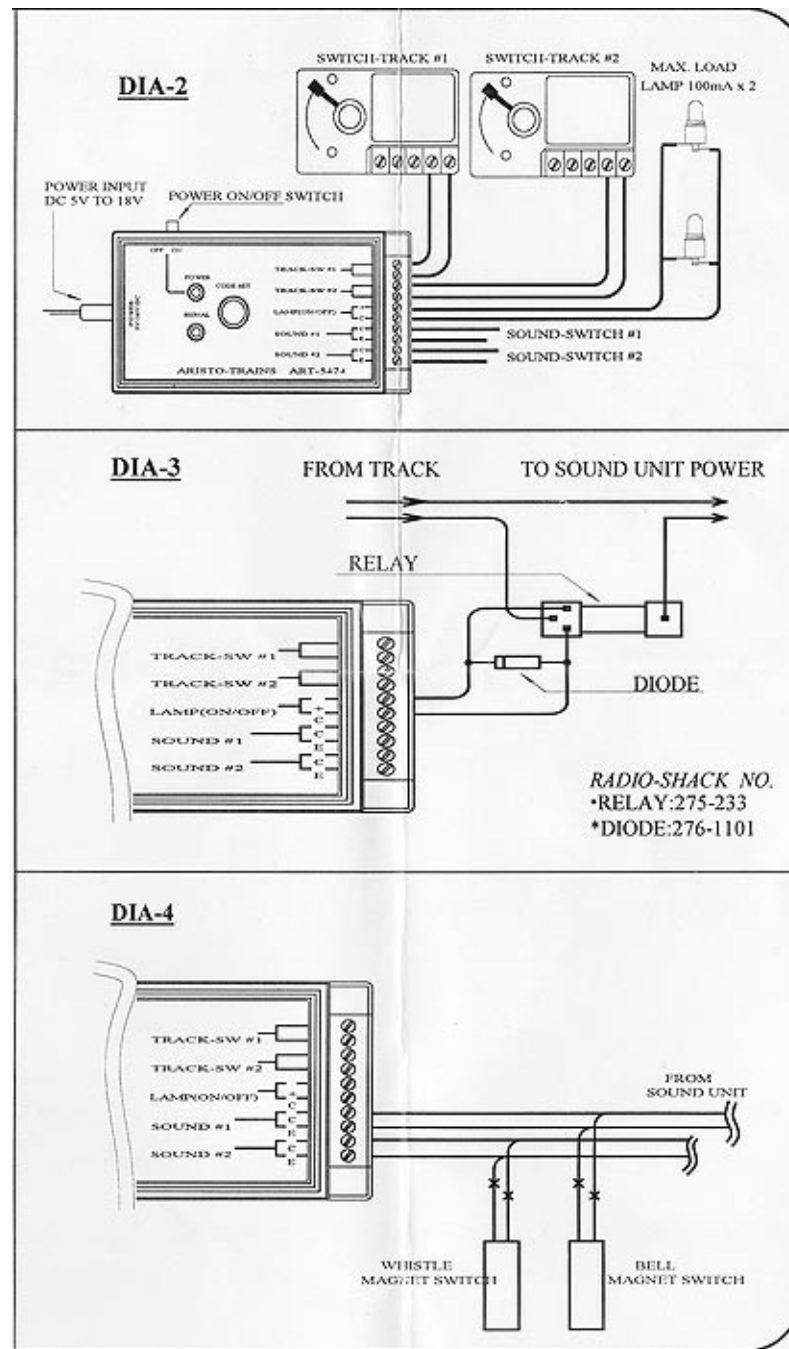
Sound Board Function Connection Procedures:

To connect a sound function (Whistle/Horn, Bell) to the ART-5474 simply cut the Reed Switches off their wires and plug the appropriate wires into the ART-5474 (See Diagram #4)

** IF SOUND DOES NOT OPERATE , REVERSE THE INSTALLATION.*



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ART-5475/CRE-55475 Instruction Manual

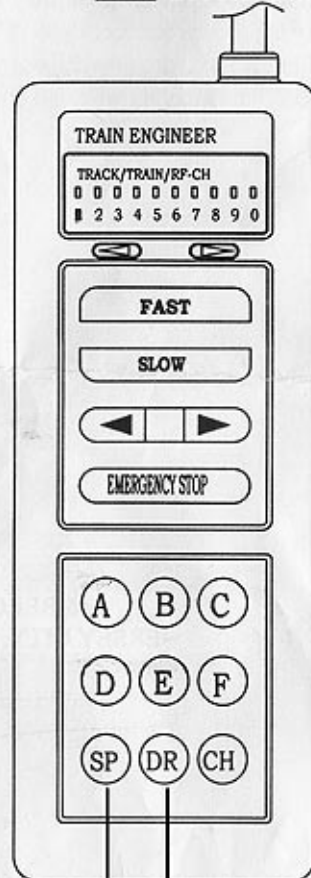
ART-5475, MINI ACCESSORY RECEIVER FOR 5 SWITCHES

1, Old transmitter and New Transmitter

OLD



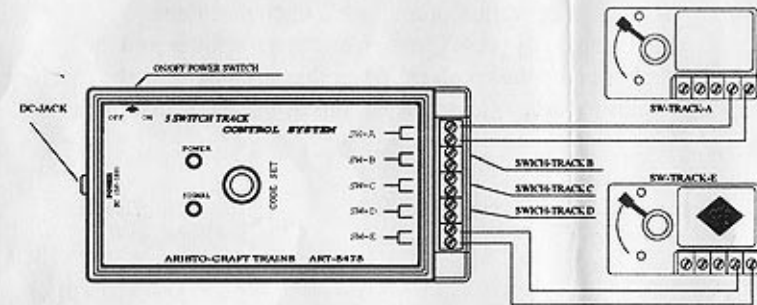
NEW 2000 and newer



Starting in 2005 On/Off Switch

Starting in 2005 "All Stop" Switch

2, Receiver, with connections to switch machine



Features

The ART-5475 mini Accessory Receiver is a wireless radio control microprocessor receiver to be used in concert with the ART-5473, Train Engineer Transmitter. Each of the ART-5475 receivers will control up to 5 switch machines. It has a wide range of operating voltages as it will function from a minimum of 5 volts DC to a maximum of 18 volts DC.

Linking the receiver to the Transmitter

There are two distinct types of transmitter, the prior type and the current type. The accompanying line drawings show the difference in the linking procedures, but the resulting functions of the receiver are same. The prior transmitter has only Track #1 and Track #2, allowing it to control 2 receivers for a total of 10 functions (switch machines). The current transmitter contains Track #1 through Track #10, allowing it to control 10 receivers for a total of 50 functions (switch machines).

A) Prior Type of Transmitter

It is important that when programming any receiver, all other receivers be turned off.

- Select either the track #1 or the Track #2 position on the transmitter.
- There are 2 positions for the operation of the switch machines which are determined by the method of programming.

1) Sequential operation of multiple switch machines:

Simultaneously press C button on the transmitter and the code set button on the receiver. When the green light on the receiver begins to flash, release the buttons as linking is complete.

Operation is as follows:

<u>Button pressed on Transmitter</u>	<u>Receiver operation</u>
A	Switches A-B
B	Switches B-A
C	Switches A-B-C-D-E
D	Switches D-E
E	Switches E-D

Please note that the switch machines do not throw all at once but operate sequentially.

2) Individual operation of the switch machines

Simultaneously press A button on the transmitter and the Code Set button on the receiver. When the green light on the receiver begins to flash, release the buttons as linking is complete.

Operation is as follows:

<u>Button pressed on Transmitter</u>	<u>Receiver Operation</u>
A	Switch A
B	Switch B
C	Switch C
D	Switch D
E	Switch E

B) **Current Type of Transmitter** (2000 version and newer)

- Select any track from Track #1 through Track #10 on the transmitter. Frequency 1 only (may work on Frequency 0)
- Same procedure as Prior Type Transmitter.

Basic connection procedure

- Connect the power input plug, which is provided, directly to the track or any DC power source(5V—18Volts).
- Connect the switch machines to the receiver as shown in the diagram.
- Uncoil the antenna wire and stretch it out.

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