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Introduction

Thank you for choosing Kadee® as your remote control system. We are sure that you will find the Kadee® Remote Control sophisticated but yet simple to use. Our goal from inception to completion has been to design a system that will be up and running in just minutes providing a user friendly device to help you accomplish your remote control requirements.

Kadee® chose to stay with our long tradition, keeping the design, manufacturing and assembly of this product entirely in the United States. This was not an easy accomplishment but we believed that the expense was necessary to provide you with the highest quality product that Kadee® can stand behind.

This User Guide provides you with instructions and recommendations to guide you through the startup and reliable operation of your Kadee® remote control.

Enjoy your new Kadee® Remote Control. We encourage you to use your imagination, where there are no limits...

Features:
Long battery life
Large tactile keypad
Simple Addressing & Binding
Remote railroad uncoupling
Accommodates standard hobby servos
Receiver with On-board 250mA Relay
Group operation
Auto Receiver shutdown
Battery monitoring
Monitor Receiver status in LCD display
Multiple operating Modes
Stand Alone Operation
Up to a 300’ range
Operate up to 99 Remote Devices
1 Getting Started

1.1 Overview

This section provides an overview of the Kadee® Remote Control and its basic functions. To discover more features including: Relay Control, Turnout Control, Locomotive Control, Motor Control and many more functions and applications, go to www.RemoteUncoupling.com.
The Kadee® Remote Control is comprised of a Transmitter that sends commands to a Receiver. After a Receiver successfully completes a command, the Transmitter Display will indicate that the command has been completed. (Sec. 1.2)

Before a Receiver can receive commands it must be Bound to a Transmitter and given a two digit address. (Sec. 3.2.3)

A Receiver can carry out the following commands:
Operate a standard hobby servo (Sec. 4.1)
Actuate an “on board” Relay (Sec. 4.2).

Quick Start (Sec. 1.3) will get you up and running in no time and Typical Applications (Sec. 4) will guide you in some of the more common uses.

Advanced Operations (Sec. 3) will go more in depth into customizing the Kadee® Remote Control.

1.2 Display

1. Mode Prompt
2. Two Digit Address Number
3. Relay Function Indicator
4. Servo Function Indicator

1) The left “Mode Prompt” indicated the currently selected Mode.
2) The center and right digits indicate the Receivers Address.
3) The left “Servo Indicator” shows that the Servo is actuated.
4) The right “Relay Indicator” shows that the Relay is actuated.

The above example shows that: Receiver 01 is in Tandem mode with both the Servo and Relay actuated.
1.3 Quick Start

Before continuing: Please read the entire “Quick Start Guide"

1.3.1 Setup
1) Install two AA batteries into the Transmitter. 
The display will show that the System is OFF.
2) Connect the Wire Harness to the Receiver. 
   Do not force connector.
3) Connect the Servo to the Wire Harness. 
   Match up yellow, red and black wires.
4) Install batteries into the Receiver Battery Pack.

    Note: Do not connect the Receiver Battery Pack at this time.

1.3.2 Wake System
Hold the [On/Off] Key for at least three seconds until the Display shows “on”. 
Transmitter will turn on and search for any Bound receivers. When the Display shows that the System is Ready, the System is awake and ready to use.

    Note: If the Display turns off, press any key to turn the Display on.*

1.3.3 Binding Receiver to Transmitter
1) Hold the [MODE] Key for one second. Display will show “SEL”, then press and release the [6] Key. Display will show “bnd”.

    Note: The next sequence must be completed within 10 seconds. **

2) Plug Battery Pack into the Wire Harness and press the [On/Off] Key.

    Note: Write down the address shown in the Transmitter Display. 
    This address will be needed for future communication with 
    this Receiver.

Transmitter and Receiver are now Bound & ready to use.
Press the [*] Key to operate the servo.

    Note: The Receiver will stay addressed until another receiver is selected. To Bind another Receiver complete Binding steps. (Sec. 1.3.3)

* The Display will turn off after 5 minutes of no activity. Press any key to turn the Display on.
** If the [On/Off] Key is not pressed within 10 seconds from applying power to the Receiver, the Bind process will fail. Remove power from Receiver and return to Binding Sec. 1.3.3.
2 Basic Operation

2.1 Wake System

*Hold* the [On/Off] Key for at least three seconds or until the Display shows “On”. The Transmitter will turn on and search for any Bound receivers. When the Display shows that the System is Ready, the System is awake and ready to use.

*Note:* The Display will turn off after 5 minutes of no activity. Press any key to turn on the Display.

2.2 Address a Receiver

*Note:* Before a Receiver can receive commands it must be addressed.

Key in the Receiver’s two digit address.

**Example:** Key in (01). Receiver 01 will now accept commands.

Operate Servo by pressing the [*] Key.
Operate the Receivers internal Relay by pressing the [#] Key.

*Note:* After one hour of no activity the Relays will go to sleep. (see Send Wake Command) Sec. 3.2.5

2.3 System Sleep

To put the entire System to Sleep manually:

*Hold* the [On/Off] Key for three seconds or until the Display shows “OFF”.

*Note:* You must be in basic operation to put system to sleep.

Tip: At any time you can *Hold* the [END] key for one second to clear the Display and return to basic operation.
2.4 Key Command

**Note:** To exit any Mode and return to basic operation: **Hold** the [END] Key for one second or until the Display clears.

2.4.1 Standard Modes (Sec. 3.2)

**Hold** the [Mode] Key for one second. Display shows “SEL”.

**Key in the desired mode:**
- 0 = Delay mode **clear**
- 1 = Delay mode **set**
- 2 = Tandem mode **toggle on/off**
- 6 = Sequential binding
- 7 = User define binding
- # = Send system wake command

* Select the desired Receiver address prior to applying this Mode.

2.4.2 List Modes (Sec. 3.3)

**Hold** the [List] Key for one second. Display shows “LIS”

**Key in the desired List:**
- 0 = Create, View/Edit Group
- 1 = Delete Group
- 6 + [*] Key (for Group List) or [#] Key (for Receiver List)
- 7 = View Low Battery List
- 8 = View missing Receiver List

**Hold** the [END] Key to exit List Mode.

2.4.3 Group Modes (Sec. 3.4)

**Hold** the [Group] Key for one second. Display shows “GrP”

**Key in the desired single digit** Group number: (0 - 9).

* **Note:** To exit **Group Mode**

**Hold** the [End] Key to exit Receiver Group Mode.
3 Advanced Operation

Note: We recommend reading this chapter before moving on to Section 4 Typical Application.

3.1 Modes Overview
There are user Modes that enable you to uniquely setup and manage your system. (Standard, List & Group Modes)

3.1.1 Standard Modes
Standard Modes help you customize many of your system's operations. These Modes Are: Delay, Tandem and Binding.

With Standard Modes you can:
- Send a command to a Receiver to be carried out immediately and remain in that state or (Delay) for 30 seconds before returning to it's original position. This feature is very useful when some extra time is needed to perform other operations without the need to manually re-address the Receiver and set it back to its original position.

Example: A switch yard locomotive is a perfect example for Delay Mode. Opening the locomotives coupler(s) enables a car to be dropped, and locomotive control can resume without needing to manually close the coupler(s) in order to pick up another car.

- Tandem offers more adaptation by enabling you to operate both the Receivers Servo (motor) and Relay simultaneously.

Example: The Relay can be used to turn on an indicator light giving a visual indication that you have actuated a feature on your layout.

- Binding receivers can be achieved Sequentially or by User Defined Binding. (Binding is required for communication between the Transmitter and Receiver) When Binding Sequentially, the Transmitter will automatically Bind the Receiver with the next available Address. User Defined Binding allows you to manually assign the Receivers Address.
3.1.2 List Modes
List Modes are used to Manage Receivers that are to be combined into Groups.

Use List Mode to:
- (Create), (View) and (Edit) list of Receivers to be used in a Groups.
- (Delete) Receiver Groups.

Note: The following List are automatically created for viewing only.
- Receivers that are Bound to the Transmitter. (Bound Receiver List).
- Receivers that have low batteries. (Low Battery List).
- Bound Receivers that have lost Communication with the Transmitter. (Missing List).

3.1.3 Group Mode
Group Mode enable you to operate a predefined List of Receivers as a Group. This feature is useful when you desire to operate multiple receivers at the same time.

Example: You want to turn on only the lights in the rural area of your model town but not all the lights.

Some features of Groups are:
- Send commands to multiple Receivers simultaneously.
- Create up to ten separate Groups.
- Assign Receivers to multiple Groups.
3.2 Using Standard Modes

3.2.1 Delay Mode
Receiver will pause for 30 seconds after receiving a command, then return to its original position. Either the Servo or the Receivers internal Relay can be set to Delay.

Set Delay Mode on a Receiver:
1) Select the Receiver you wish to set to Delay.
2) **Hold** the [Mode] Key until “SEL” appears in Display.
4) Press the [*] Key for Servo or [#] Key for Relay. Display flashes “SEt”.

The servo (or) relay is now set to Delay and it’s function indicator will blink, showing Delay is set.

**Tip:** To set both the servo and relay to Delay: Use the Tandem Mode. (Sec 3.2.2)

Clear Delay Mode:
1) Select the Receivers address.
2) **Hold** the [Mode] Key until the display shows “SEL”.
3) Press the [0] Key. Display flashes “CLr”.

Delay Mode is now cleared on the selected Receiver.

3.2.2 Tandem Mode
Servo and Relay operate simultaneously with a push of either the [*] or [#] Key.

Toggle Tandem Mode ON or OFF:
1) Select Receivers address.
2) **Hold** the [Mode] Key until “SEL” appears in Display.

“t” will appear in the Display showing that this Receiver is set to Tandem Mode.

**Note:** Repeat steps 1-3 to toggle Tandem Mode to OFF.

3.2.3 Binding Mode
Bind Receiver to Transmitter and create Receiver Address.

Bind Receiver Sequentially:
1) **Hold** the [Mode] Key until “SEL” appears in Display.
3) Connect power to the Receiver you wish to Bind and press the [On/Off] Key.

**Note:** The [On/Off] Key must be pressed within ten seconds after connecting power to the Receiver.

The Display will show the Receivers Address that was Sequentially Bound.
User Defined Binding:

1) **Hold** the [Mode] Key until “SEL” appears in Display
2) Press the [7] Key. (Transmitter now waits for a two digit Address to assign to the Receiver)
3) Key in an (unassigned) Address for the Receiver you wish to Bind.
4) Connect power to the Receiver you wish to Bind and press the [On/Off] Key.

**Note:** The [On/Off] Key must be pressed within ten seconds after connecting power to the Receiver.

The Display will show that the Receiver is Bound with the Address that you selected.

**Note:** If an Address was previously assigned it must be Erased before a Receiver can use that Address. (see Unbinding) (Sec 3.2.4)

3.2.4 Unbinding:

1) **Hold** the [Mode] Key until “SEL” appears in Display
2) Press the [7] Key. Display shows “_ _”. (Transmitter waits for a two digit Address to Unbind)
3) Key in the Address you wish to Unbind.
4) Press the [On/Off] Key to Unbind the selected address.

The Display will show that the Receiver that you selected is Unbound. The Address will also be Erased from the “Bound Receiver List” but not from the “Receiver Groups List”. (for more on groups. see Using List Modes. (Sec 3.3)

**Note:** Bound Receiver Addresses are available for review. (see Using List Modes: View Receiver and Group List) (Sec 3.3.3)

3.2.5 Send Wake Command:

After one hour of no activity receivers will go to sleep.

To wake receivers:

1) **Hold** the [Mode] Key until “SEL” appears in Display
2) Press the [On/Off] Key. The Transmitter will search for and Wake any Bound Receivers.

When the Display shows that the System is Ready, the Receivers are awake and ready to use.
3.3 Using List Modes

3.3.1 Create, view and edit Group List

*Note:* To create a Group you must make a List of at least one Receiver Address to add to the group.

**Create a Group List:**

1) **Hold** the [List] Key for one second or until “LIS” shows in the display.
2) Press the [0] Key to Create, View or Edit a Group. Display will show “GrP”
3) Enter a single digit group number (0 - 9). Display indicates that you are creating a List and waits for a two digit Receiver address to add to this group. Display shows “L _ _”.
4) Enter the two digit Receiver address to select and include in this group and press the [SEL] Key. The address is now included in the group. Display will show “L _ _” and wait for the next address.
5) To continue adding addresses: repeat step 4.
6) To complete the Group creation **Hold** the [END] Key until the display clears. The selected Group is now created and contains the list of Receiver Addresses that you entered.

**View the List of Addresses in a Group:**

1) **Hold** the [List] Key for one second or until “LIS” shows in the display.
2) Press the [0] Key to Create, View or Edit a Group. Display will show “GrP”
3) Enter an existing single digit Group number. Display shows the first address in the Group List.
5) **Hold** the [END] Key to exit.

**Add Addresses to an Existing Group:**

1) **Hold** the [List] Key for one second or until “LIS” shows in the display.
2) Press the [0] Key to Create, View or Edit a Group. Display will show “GrP”
3) Enter an existing Group number. Display shows the first address in the Group List.
4) **Hold** the [SEL] Key for one second to insert a new Address. Display shows “L _ _”.
5) Enter the Receiver address to include in this group, then press and release the [SEL] Key. The address is now select and included in the group. Display will show “L _ _” and wait for the next address.
6) To continue adding addresses: repeat step 5.
7) To complete the Group creation **Hold** the [END] Key to exit.
Delete an Addresses in a Group List:
1) **Hold** the [List] Key for one second or until “LIS” shows in the display.
2) Press the [0] Key to Create, View or Edit a Group. Display will show “GrP”
3) Select an Existing Group Number.
4) Use the [4] and [6] arrow keys to select the address you wish to delete.
5) **Hold** the [Back] Key for one second to delete this address. Display shows the address to delete.

*Note: If this is not the Address you wish to delete: Press the [Back] Key to step back and select another address.*

6) If you are sure you want to delete the address, press the [SEL] Key. The address is now deleted from the group.
7) To delete another address repeat step 4-5
8) **Hold** the [END] Key to exit.

3.3.2 Delete Group
1) **Hold** the [List] Key for one second or until “LIS” shows in the display.
2) Press the [1] Key. Display will show that you have entered “Delete Group” then show “GrP”.
3) Select the Group to delete. Display will ask if you are sure you want to delete the Group.

*Note: If this is not the Group you wish to delete: Press the [Back] Key to step back and select another Group.*

4) If you are sure, Press the [SEL] Key. The Group is cleared from memory.
5) To delete another Group: Repeat steps 3 - 4.
6) **Hold** the [END] Key to exit.

3.3.3 View Receiver and Group List
1) **Hold** the [List] Key for one second or until “LIS” shows in the display.
3) Press the [*] Key to display a list of bound receivers (or) [#] Key for the list of current groups.
4) Use the [4] and [6] arrow keys to move forward or back through a list.
5) **Hold** the [END] Key to exit.
3.3.4 View List of Receivers with Low Batteries
1) **Hold** the [List] Key for one second or until “LIS” shows in the display.
2) Press the [7] Key. Display will show a list of Receivers with low batteries.

*Note: If no low batteries are detected the display will show “non” and return to standard operating mode.*

3) Use the [4] and [6] arrow keys to move forward or back through a list.
4) **Hold** the [END] Key to exit.

3.3.5 View List of missing Receivers*
1) **Hold** the [List] Key for one second or until “LIS” shows in the display.
2) Press the [8] Key. Display will show “Gon” while searching for missing Receivers that are Bound but not communicating with the Transmitter.

*Note: If no missing Receivers are detected the display will show “non” and return to standard operating mode.*

3) Use the [4] and [6] arrow keys to move forward or back through a list.
4) **Hold** the [END] Key to exit.

* A bound Receiver could be missing due to: receiver has fallen asleep, insufficient battery power or the Receiver may be out of range.

3.4 Using Group Modes

*Note: Before a Group can be operated. You must create a group containing a list of receivers. (See Sec 3.3.1)*

Select a Group
1) **Hold** the [GROUP] Key until “GrP” appears in the display.
2) Key in a single digit Group number. Display will show “G” preceding the selected Group number.

Operate Group Servos (motors) by pressing the [*] Key.
Operate Group Receiver Relays by pressing the [#] Key.

3) To select another Group: simply Key in another single digit Group number.
4) To exit Group Mode: **Hold** the [END] Key for one second or until the Display clears. Display will show the last addressed Receiver.

*Note: If you select a non-existing group, the Display will show that there is no Group and return to the last selected Group.*
4 Typical Application

4.1 Operating a Servo
Setting up and operating a standard hobby servo with your KDRC receiver is described below.

4.1.1 Connecting the Servo
Connect servo cable to the Receivers three conductor Wire Harness making sure that the yellow, red and black wires are aligned.

**Note:** Some servo connectors have a polarity tab that may need to be removed before inserting the connector into the wire harness receptacle.

4.1.2 Actuating the Servo
Once the servo is properly connected, it can be actuated between a clockwise and counter clockwise position by pressing the Servo/Motor [*] Key.

**Note:** The Transmitter and Receiver must be Bound together and the Receiver must be addressed by the Transmitter before commands can be sent to the Receiver. (see Sec. 3.2.3)

4.1.3 Set Servo Delay
The servo can be set to delay for :30 seconds.

1) Select Receivers address
2) **Hold** the [Mode] Key until “SEL” appears in the Display.
3) Press the [1] Key The display will show “S?r”.
4) Press the [*] Key to set the Servo Motor into Delay Mode, (or) the [#] Key to set the Relay into Delay Mode.

The display will show “Set” and return to the addressed Receiver. The indicator will be blinking showing that delay has been set for the Servo or Relay. (see Display Sec. 1.2)

4.1.4 Clear Servo Delay
1) Select Receivers address
2) **Hold** the [Mode] Key until “SEL” appears in the Display.
3) Press the [0] Key. Display will show “CLr” and return to the selected address.

4.1.5 Servo Reversal
By default the Servo Indicator will be visible when the Servo is in its clockwise position. This can be reversed if desired.

**To Reverse the Servo:**
1) Select desired Receiver address.
2) **Hold** the [*] Key until “SEt” appears in the Display.

**To Clear Servo Reversal:**
**Hold** the [*] Key until “CLr” appears in the Display.
4.2 Operating the Relay
Your Kadee RC receiver is equipped with an on-board relay that can be used to switch electronic devices on and off.

4.2.1 Relay Overview
Please read this brief overview. A basic understanding of the on-board relay and it’s capabilities will benefit you in achieving reliable operation without damaging the on-board relay. This (solid state) relay is optically isolated from the Receiver control circuitry to eliminate the possibility of permanent damage to the Receiver if an overload should occur. Care should still be taken, not to overload the relay itself. Please observe the following conditions for reliable switching and long service life:
Do not exceed 40 volts AC or DC at 250mA of load. It is highly recommended that you place a 250mA fuse in your circuit to protect the relay. Fuses and fuse Holders are available for purchase from Kadee™ if you cannot find them locally.

4.2.2 Connecting the Receiver Relay to a Circuit
The Receiver Wire Harness has a two conductor plug with orange wires. There is also a receptacle connector with orange wires that you can utilize in connecting the Receivers Relay to a circuit.

4.2.3 Actuating the Relay
Once the Wire Harness is properly connected, the on-board relay can be actuated between an open and closed position by pressing the [On/Off] Key.

Note: The Transmitter and Receiver must be Bound together and the Receiver must be addressed by the Transmitter before commands can be sent to the Receiver. (see Sec. 3.2.3)

It is highly recommended that you check the current (amps) being drawn through your circuit. This can be achieved with a Volt Ohm Meter (VOM).

Note: please read your VOM user manual for the correct procedure of measuring current with your VOM.
5 Reference

5.1 Trouble Shooting

5.1.1 Error Codes
In the event that an error occurs, a two digit code will be displayed briefly in the Transmitter Display.

E.00 - Unrecognized command from keypad
E.01 - Unrecognized response from selected Receiver
E.02 - Communication Time-out
E.03 - ID number not in list
E.09 - No Receiver IDs available
E.10 - CRC error
E.11 - Receiver doesn't recognize command
E.12 - Bind failed
E.13 - Invalid Receiver ID
E.15 - Receiver SN not initialized

If a particular error is happening repeatedly:

5.1.2 Circuit Protection
When utilizing a Receivers on-board relay, protecting the circuit is highly recommended. Kadee Quality Products will not be responsible for damage to the Receivers Relay if it has been overloaded due to improper wiring or a short circuit.
See section 4.2 Operating the Relay for proper wiring and circuit protection.

5.1.3 Transmitter Problems
If the Transmitter should act abnormal or lock up: remove the batteries from the Transmitter for ten seconds. When the batteries are replaced the firmware version will be displayed for a moment and then show that the system is off. If this is not the case or the display is blank after inserting good batteries:

5.1.4 Transmitting Range Problems
You could encounter range problems from a variety of reasons. Although the system will notify you of low batteries in a Receiver or your Transmitter, the maximum range will be obtained with fresh batteries.

If you are experiencing insufficient range, follow these tips for achieving maximum range:
- Make sure your Receiver Antenna is straight and vertical if possible.
- Mount your Receiver and Antenna as high as possible.
- Keep in mind that close proximity to other transmitters like wireless keyboard and mouse could affect range.
5.2 Specifications
Solid State Relay:
- Peak Voltage: 40V AC/DC
- Amperage: 250mA (.25A)
- Turn On Time: .15ms TYP
- Turn Off Time: .04ms TYP
- Isolation Voltage: 500V AC
- Temperature Limits: -40°F to +185°F

5.3 Firmware
Registering your product will enable us to notify you of new features and accessories. To take advantage of firmware update notifications product registration is required.


5.4 Important Notice, FCC Licensing
This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:
1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

This product contains a radio transmitter with wireless technology which has been tested and found to be compliant with the applicable regulations governing a radio transmitter in the 902GHz to 988GHz frequency range.

5.5 Warranty
LIMITED WARRANTY
Kadee Quality Products will repair or replace, at our sole option without charge, any Kadee Remote Control Product or Kadee Remote Control system products affiliated with Kadee Remote Control system (#11110, #11215, #11225, #11230) determined by Kadee to be defective, where such product fails due to a defect in material or workmanship within (1) Year following the initial consumer purchase. Kadee’s responsibility and liability pursuant to this warranty is expressly and solely limited to the replacement and repair of the Kadee Product in accordance with this warranty.

This warranty is limited to the original “Purchaser” and is not transferable or assignable. This warranty covers only those Kadee Products purchased from an authorized dealer. Third party transactions (such as EBAY) are not covered by this warranty.

Proof of purchase or product registration reflecting a purchase within the warranty period is required for warranty claims. Further, Kadee reserves the right to change or modify this warranty without notice and disclaims all other warranties, express or implied.
This warranty does not cover: normal wear and tear, cosmetic or physical damage to the surface of the product, including cracks or scratches. Any damage due to improper installation, operation, maintenance, handling, accident, fire, water or liquids, power changes, abuse, alteration, modification, negligence, battery leak, damage caused by third parties, damage due to attempted repair by anyone other than Kadee, acts of God, devices purchased from anyone other than an authorized retailer or distributor or devices that have been previously registered.

This warranty is considered void if the product case has been opened or the protective wrap has been removed by anyone other than Kadee.

Any device needing to be returned to Kadee must have a return merchandise authorization (RMA) number. Any device received at Kadee without a valid RMA number will be returned to the sender at sender's expense. RMA numbers are valid for (10) business days.

Kadee reserves the right to inspect any and all equipment involved in a warranty claim. Repair or replacement decisions are at the sole discretion of Kadee.

A technical representative will be able to determine if the device is defective and still under the limited warranty period. It also may be necessary for the device to be sent for evaluation to determine the validity of the warranty claim.

If the device is not deemed defective or is out of the limited warranty period, you may be given the option to repair the device for a fee or have the device returned as is at your expense.

DISCLAIMER:

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• AutoShutdown
• Group Operation
• Long Battery Life
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• Up to a 300’ range
• Remote Uncoupling
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• Multiple Operating Modes
• Simple Addressing & Binding
• Operate up to 99 Remote Devices
• Receiver with On-board 250mA Relay
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