

# Installation Instructions

## Wireless Infrared Remote Control (Kit #21957502)

These instructions provide step-by-step procedures to guide you through the process of installing, programming, and using the wireless infrared remote control.

Since this instruction sheet contains programming and user instructions, as well as installation instructions, please read through the entire document before you begin.



### NOTE:

Two AAA alkaline batteries are required for the remote control unit. These batteries must be purchased separately. Install the batteries as indicated by the diagram in the battery compartment before you begin this installation.

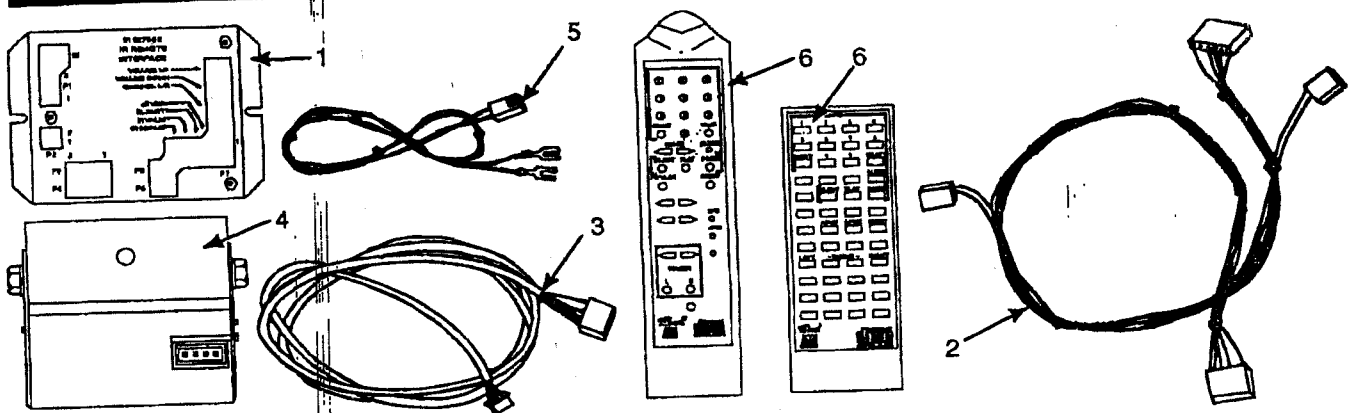


Figure 1. Kit Parts

### Required Parts List

Ref	Description	Part No.	Qty.	Ref	Description	Part No.	Qty.
	These Instructions	21958401	1	6	Modified IR Transmitter Assembly	21958303	1
1	IR Remote Interface Assembly	61027602	1		#8 X 5/8 Hex. WRHS (Type 17)	86663610	12
2	Segue-To-CCC Harness Assembly	45077001	1		Cable Clamp (3/16 inch)	70093102	4
3	IR Receiver-To-Interface Harness	21958601	1		Cable Clamp (17/32 inch)	70093401	1
4	Infrared Receiver Assembly	40846301	1		Catch Hook	21888001	2
5	IR Interface-To-Amp Harness	21958501	1		Screw Eye	21958901	1

**TOOLS REQUIRED:** A 1/4-inch Hex. driver is required.  
**TIME REQUIRED:** 25 minutes or less

## STEP-BY-STEP INSTRUCTIONS

1. Open the phonograph top door.
2. Place the infrared interface assembly (*figure 1, ref. 1*) approximately 2 inches to the right of the central control computer. Slide the infrared interface up or down slightly so that the lower edge of the infrared interface is at approximately the same height as the lower edge of the Central Control Computer (CCC). Once the infrared interface assembly is in position, fasten it to the phonograph wall with two #8 X 5/8 screws.
3. Connect the Segue-To-CCC harness (*figure 1, reference 2*) between the IR Interface assembly (*figure 1, ref. 3*) as follows:
  - A. Plug the 6-pin connector into P4 on the CCC and plug the 3-pin connector into P12 of the CCC.
  - B. Plug the 6-pin connector on the other end into P4 on the interface and plug the remaining 3-pin connector into interface P6.
4. Plug the small connector on the IR Receiver harness (*figure 1, ref. 3*) into the IR receiver assembly (*figure 1, ref. 4*).

## 5. IR Receiver Installation

The infrared<sup>1</sup> light beams transmitted from the front of the IR Remote Transmitter will reflect off of walls and ceilings. These light beams tend to scatter, so that you do not need to aim the transmitter or the receiver precisely. If you install the IR receiver using the "bounce" method, you may need to experiment to find the proper receiver position.

Follow *Step A, Bounce Technique*, OR *Step B, Direct Technique* to install the IR receiver.



### NOTE:

1. The IR sensor must be pointed in the general direction that you expect the light from the IR remote to come from.
2. If you use the "bounce" technique, the maximum 75 foot working distance is reduced to 50 feet.

### A. Bounce Technique

The IR receiver is mounted on the back of the phonograph, so it is not visible to patrons. This installation should be used whenever the IR receiver cannot be placed on the wall or ceiling. This installation may also be used if the wall or ceiling mount is not convenient or attractive.

- 1) Roll the phonograph away from the wall and attach the IR receiver to the back of the phonograph near the access cover with one #8 X 5/8 screw (so that the IR receiver harness will have a short distance to travel across the back of the phonograph).

<sup>1</sup> Infrared light is not visible to the naked eye. When you press a button on a working IR remote, you will not be able to see the two LED's on the front of the IR remote light. See *Troubleshooting The IR System* for details on how to determine whether the IR remote is functioning properly.

- 2) Using your "best guess", point the IR receiver upward and toward the wall as shown in *figure 2*. Route the harness between the IR receiver and the bracket as shown in *figure 2, detail A*.
- 3) Feed the IR receiver harness through the access hole and plug the free end of the harness into P1 on the IR interface board.
- 4) Coil up any excess harness and then fasten the coil to the inside of the phonograph with a cable clamp and #8 X 5/8 screw.
- 5) Roll the phonograph back into its normal position.
- 6) If the wall behind the phonograph is not a very light color, place a white sheet of paper (or a small mirror) on the wall to serve as a reflector for the light from the LED on the IR receiver. Place this paper in position so that the flashing LED light will show on the paper. This will allow you to see that signals from the IR remote are being received by the IR receiver.
- 7) Turn the phonograph power on.
- 8) Point the IR remote at the IR receiver and press the PLAY key. As you press the key, you should see the LED on the IR receiver flash ON and OFF.  
  
If the LED does not flash ON and OFF, go to *Troubleshooting The IR System* at the end of these instructions.
- 9) Move around the room and make sure that the LED flashes whenever you press the PLAY key. If you cannot make the LED flash from a location which you wish to be able to transmit from, reposition the IR sensor and test that location again.
- 10) When you are satisfied with the IR sensor position tighten the screws on the side of the IR receiver bracket.

## B. Direct Technique

Mount the IR receiver with this technique to ensure maximum working distance between the IR remote and the phonograph.

- 1) Attach the IR receiver to the ceiling or wall with a temporary adhesive, such as double-back tape as shown in *figure 2*. Route the harness between the IR receiver and the bracket as shown in *figure 2, detail A*. Feed the IR receiver through the access hole and plug the harness into P1 of the IR remote interface.
- 2) Turn the phonograph power on.
- 3) Point the IR remote at the IR receiver and press the PLAY key. As you press the key, you should see the LED on the IR receiver flash ON and OFF.  
  
If the LED does not flash ON and OFF, go to *Troubleshooting The IR System* at the end of these instructions.
- 4) Move around the room and make sure that the LED flashes whenever you press the play key. If you cannot make the LED flash from a location which you wish to be able to transmit from, reposition the IR sensor and test that location again.
- 5) When you are satisfied with the IR sensor position, mark the position of the IR sensor base on the wall (or ceiling), remove the temporary adhesive, and secure the IR receiver with the appropriate screw type and length to ensure that the IR receiver will remain in position. Position the IR receiver over the marks and tighten the screw; then, tighten the two screws on the side of the IR receiver bracket.

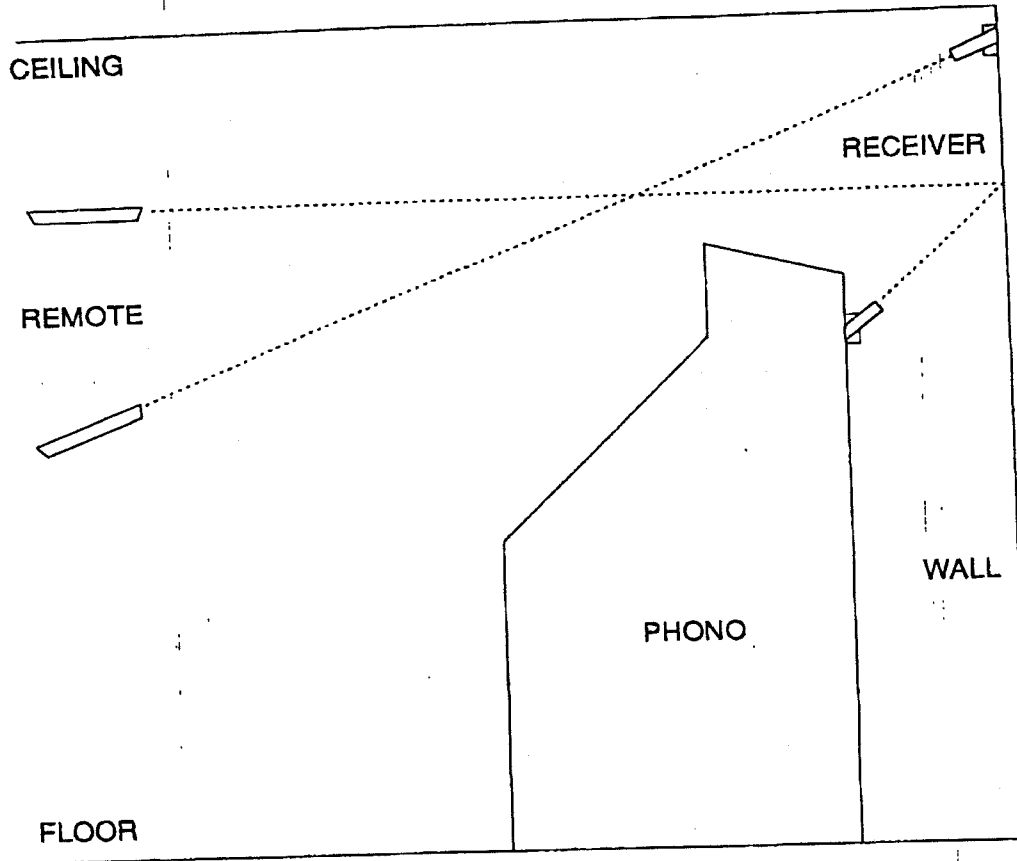
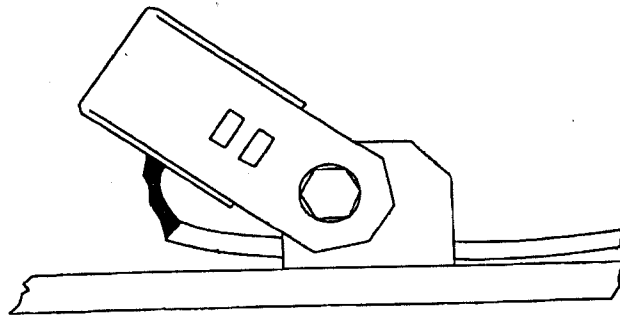


Figure 2



Detail A

## 6. Volume Control Connections

Plug the 2-pin connector of the IR interface-to-AMP harness (figure 1, ref. 5) into P2 of the interface, then do Part A, B, C, or D; whichever applies to your installation

### A. Phonographs Using A Single Channel Volume Control:

- 1) Remove the Red volume control wire from Terminal 4 on the Volume Control/Cancel Terminal Block and tape the end of the loose wire.
  - 2) Move the jumper from Terminals 4 and 5 to Terminals 5 and 6.
  - 3) Connect the Green wire from the interface harness to Terminal 5 and tighten the screw.
  - 4) Connect the Red wire to Terminal 4 and tighten the screw.
  - 5) Set S1, Switch #4, on the IR remote interface to the OFF position. Go to Step 7, Setup And Programming, on the next page.
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### B. Phonographs Using Dual Channel Volume Control

- 1) Remove the Red volume control wire from Terminal 4 on the Volume Control/Cancel Terminal Block and tape the end of the loose wire.
  - 2) If a Green wire is on terminal T-5 on the Volume Control/Cancel Terminal Block, remove it and tape the end of the loose wire.
  - 3) If the jumper has not already been moved from terminals 4 and 5 to Terminals 5 and 6, move it now.
  - 4) Connect the Green wire from the interface harness to Terminal 5 and tighten the screw.
  - 5) Connect the Red wire to Terminal 4 and tighten the screw.
  - 6) Set S1, Switch #4, on the IR remote interface to the ON position. Go to Step 7, Setup And Programming, on the next page.
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### C. Phonographs with Background Music Kit and Single Volume Control

- 1) Connect the Red wire from the IR remote interface in place of the Red wire that goes to the volume control on the Background Music installation.
  - 2) Tape-up the Green wire from the IR remote interface, it is not used.
  - 3) Set S1, Switch #4, on the IR remote interface to the OFF position. Go to Step 7, Setup And Programming, on the next page.
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### D. Phonographs With Background Music Kit and Dual Volume Control

- 1) Connect the Red wire from the IR remote interface in place of the Red wire that goes to the volume control on the Background Music installation.
  - 2) Connect the Green wire from the IR remote interface in place of the Green wire that goes to the volume control on the Background Music installation.
  - 3) Set S1, Switch #4, on the IR remote interface to the ON position. Go to Step 7, Setup And Programming, on the next page.
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## 7. Setup And Programming

A. Check SWITCH 1 and make sure that it is set as follows:

Table 1. S1 Settings

Number	Setting
1	ON (Remote Model) *.
2	OFF (On if using the Remote Autoplay Override function).
3	OFF (On if using the Clear Selection Memory function).
4	As required by volume control selection in Step 6.

\* 21958303 has 2 batteries, and 21958301 has 3 batteries. Set to OFF if using remote model 21958301. The 21958301 is an earlier model that uses 3 batteries.

B. The following programming changes apply to CCC's with Program Version 2.0 and higher:

- 1) Put the phonograph into SERVICE mode.
  - 2) Enter the SECURITY CODE, if needed, then return to the SERVICE MODE menu.
  - 3) Review *table 2* and make any changes that may be required (if you are not familiar with how to enter commands, refer to *Section 2* of the appropriate service manual)(table 2 shows what is available in the CCC V2.5 and 3.X eprom. If you have V2.0 - 2.4, all options may not be available).
8. Installation is complete. Close the phonograph top door and make a selection using the IR remote (see *Making Selections* in the following paragraph). If the phonograph does not work properly, go to *Troubleshooting The IR Remote System* at the end of these instructions.

## IR REMOTE MOUNTING AND SECURITY OPTIONS

### Mounting Options

The IR remote can be mounted on most any surface if you use one or both of the Velcro mounting hook pads supplied in this kit.

**Procedure** — Peel the sticky backing off of the Velcro hook pads and apply them to a clean surface. If you use both pads, be sure that the distance between the pads matches the Velcro on the back of the IR remote before you stick down the pads.

## Security Option

The IR remote can be attached to a small cable so that the remote will not "wander" too far away from its desired location. To install the cable:

1. Remove the screw on the back of the IR remote with a Torx screw driver or a 0.05-inch Allen wrench.
2. Screw the screw eye into the empty hole, fasten a small diameter cable (available from most hardware stores) to the screw eye, and fasten the other end of the cable to a non-movable object.

Table 2. Program Settings

Command	Description	Factory Setting	Recommended Setting
91	<b>Remote Selections</b> - Displays and sets remote selections to ON, OFF, ICD, or XCD. If this command is set to ON, you can always use the IR remote control to make a selection or give a credit. If this command is set to OFF, remote control selections and credits are not allowed at all. If this command is set to ICD, remote control selections and credits are allowed as long as REMOTE CREDIT (92) exceeds zero. If set to XCD, remote control selections are allowed when remote credit (92) or external credit (selections remaining on digital display) exceeds zero, and remote control credits are allowed when remote credit (see 92) exceeds zero. Hold RESET, push 9 to select ON, OFF, ICD or XCD. Press POPULAR to save.	OFF	ON/OFF/ICD/ XCD
92	<b>Remote Credit</b> - Displays and changes the number of internal remote credits. If RMT SELECT (91) is set to ICD or XCD, remote credits are decremented each time you use the IR remote control to make a selection or give a credit. Type the number of credits, then press POPULAR.	0	0-999
93	<b>Remote Pause</b> - Allows the remote to pause the phonograph if this feature is set to ON. Hold RESET and press 9 to toggle this command ON and OFF. Press POPULAR to save your choice.	OFF	ON
94	<b>Remote Pause Time</b> - Displays and sets the number of minutes the phonograph can be paused. Type the new number, then press POPULAR to save your choice.	90 Minutes	1 minute

Table 2. Program Settings

Command	Description	Factory Setting	Recommended Setting
95	<b>Remote Autoplay Override</b> - Allows the remote to turn Autoplay either ON or OFF if this feature is ON. Hold RESET and press 9 to toggle ON and OFF. Press POPULAR to save your choice.	SEE NOTE <sup>1</sup>	OFF (To avoid accidental turn off by operator). On if using Remote Autoplay Override.
96	<b>Remote Reload</b> - Once a week (on Monday) the value in this location is added to the REMOTE CREDIT (MENU COMMAND 92). Type the number of credits you want to give each week. Press POPULAR to save your choice.	0	0-999
99	<b>Remote Plays</b> - Displays the number of selections made from the remote.	---	---
65	<b>Album Select</b> - Displays and toggles the ALBUM BUY options ON, OFF, or JUK so that entire albums can be selected. Albums can be selected from the phonograph Wallbox and IR remote control if set to ON. They can be selected from the phonograph and Wallbox if set to JUK. Hold RESET and press 9 to toggle ON, OFF, or JUK. Press POPULAR to save the change.	ON	ON/OFF/JUK
6992	<b>Free album</b> - Allows entire albums to be selected if FREE PLAY (55) and ALBUM BUY (65) are ON. Hold RESET and press 9 to toggle this command ON and OFF. Press POPULAR to save your choice.	OFF	ON/OFF

### MAKING SELECTIONS AND GIVING CREDIT

Selections are made by pressing SELECT or PRIORITY and then entering the four digit selection number.

When the SELECT or PRIORITY button is pressed, the LED on the IR receiver will flash. The LED on the IR receiver will flash as each digit of the selection is entered. After the fourth digit is pressed, the LED will stay ON steady for two seconds, then it will go OFF. If the LED does not stay ON when the fourth digit is pressed, press SELECT or PRIORITY and re-enter the four-digit selection number.

If you want to cancel a selection number that has been partially entered, press SELECT or PRIORITY. This will allow you to re-enter the selection number.

#### NOTE 1: Factory Load Settings Are As Follows

Version 2.2 and earlier: ON. Version 2.3 and later: OFF.