

Table 3 describes the functions that are possible with the IR remote. The PROGRAM setting in Table 2 must be set to enable some of these functions.

Table 3. IR Remote Functions

Button Name	Function	Notes
Select	Allows a four digit selection number to be entered.	Press SELECT, then enter the four-digit selection number.
Priority	Used instead of SELECT, to put the selection number at the top of the play list.	Press PRIORITY, then enter the four digit selection number.
Album	Allows all selections (album buy) to be made from a disc.	Press album, then press the 2 digit disc number.
Credit	Adds 1 credit to the phonograph.	Press CREDIT.
Pause	Stops the current selection from playing. The selection will resume at the same place it was "paused" when the PLAY button, or any button (but PAUSE) is pressed.	Press Pause. Pause time is set at the jukebox program location 94.
Play	"UN-Pauses" a selection which is paused.	Press Play.
Reject	Cancels the selection that is currently being played.	Press Reject.
Clear All Selections	Clears all selections waiting to be played.	Press REJECT for at least 4 seconds.
Volume + - Left Right	These buttons allow you to raise and lower the phonograph volume.	<p>Single Channel mode — Press the + to raise the volume and press - to lower the volume.</p> <p>Dual Channel mode — Press either LEFT or RIGHT, then press + or - to raise or lower the volume on that channel (each channel must be selected separately).</p>
AP OF (OFF)	Turns the AUTOPLAY feature OFF (Location 47 in the Jukebox Program).	Press AP OF to turn OFF Autoplay.
AP ON	Turns the AUTOPLAY feature ON (Location 47 in the Jukebox Program).	Press AP ON to turn ON Autoplay.

TROUBLESHOOTING THE IR REMOTE SYSTEM

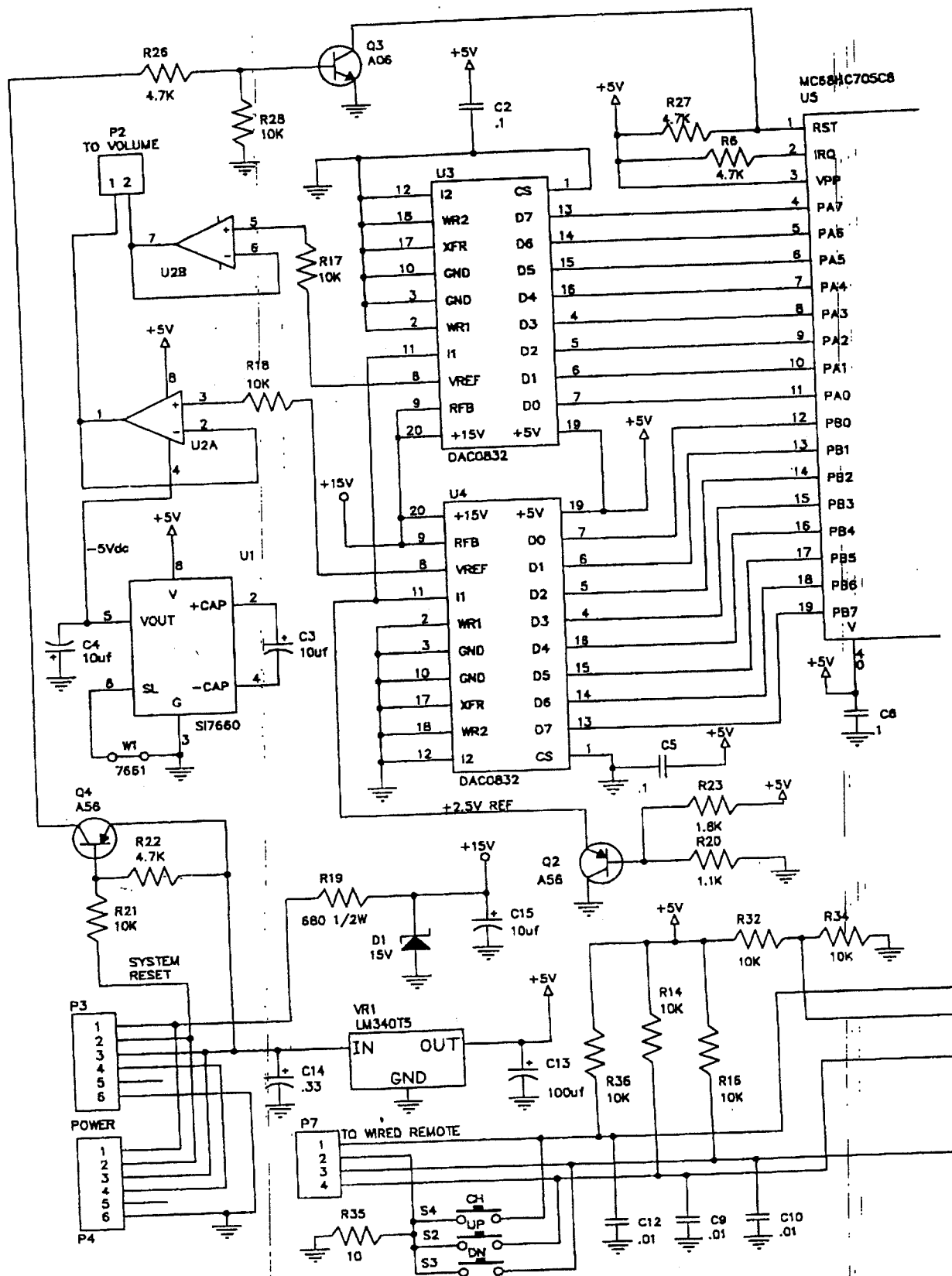
The following chart lists several situations that may occur after this kit has been installed. The situations described in the "Trouble" column apply only to problems that may be caused by the installation of this kit. If a problem appears that is not on this list, refer to the phonograph field service manual for additional procedures. Before using this chart, make sure switch S1 is set correctly per table 1.

Troubleshooting Chart

Trouble	Symptom	Probable Cause
Phonograph does not respond to any command sent from the IR remote control, but otherwise operates normally.	+5 VDC LED on the IR remote interface fails to light.	<ol style="list-style-type: none"> 1. Harness between CCC P4 and the IR interface P4 is not plugged-in properly. 2. Defective harness between the CCC and the IR interface. 3. Defective IR interface board.
	RL XMIT LED on the IR remote interface fails to light.	<ol style="list-style-type: none"> 1. Rowelink harness between the CCC P12 and the IR interface P6 is not plugged-in properly. 2. Defective harness between the CCC and the IR interface. 3. Defective interface board.
	The IR VALID LED on the IR interface fails to light when IR remote buttons are pressed (any buttons, except 0-9).	<ol style="list-style-type: none"> 1. No batteries or weak batteries in the IR remote transmitter. 2. The IR remote transmitter's batteries have been inserted improperly. 3. Harness between the IR interface P1 and the IR receiver is not plugged-in properly. 4. Defective harness between the IR interface and the IR receiver. 5. Defective IR receiver. 6. Defective IR interface. 7. Defective IR remote transmitter.

Troubleshooting Chart

Trouble	Symptom	Probable Cause
Cannot make selections with the IR remote transmitter.	The LED on the IR receiver fails to light when digits 0-9 are pressed.	Need to Press SELECT or PRIORITY before entering the 4-digit selection number.
	The LED on the IR receiver flashes when digits are pressed and it stays lit for two seconds after the fourth digit is pressed (this is the normal sequence).	<ol style="list-style-type: none"> 1. Menu Item 91 in the CCC is set to OFF. 2. Menu Item 91 is set to ICD or XCD and item 92 is set to zero. 3. The selection made from the IR remote transmitter is an invalid number.
Cannot put the phonograph into the PAUSE mode.	The LED on the IR receiver flashes when PAUSE is pressed (this is the normal sequence).	Menu Item 93 in the CCC is set to OFF.
Volume + and - on the IR remote transmitter have no effect on phonograph volume.	The volume is adjustable through the volume control at the back of the phonograph.	Harnessing from the IR interface to the amplifier transformer assembly is not installed properly.
	No sound or full volume.	<ol style="list-style-type: none"> 1. Harnessing from the IR interface to the amplifier transformer assembly is not installed properly. 2. Harnessing from the IR interface to the amplifier transformer assembly is defective. 3. Defective IR interface circuit board.





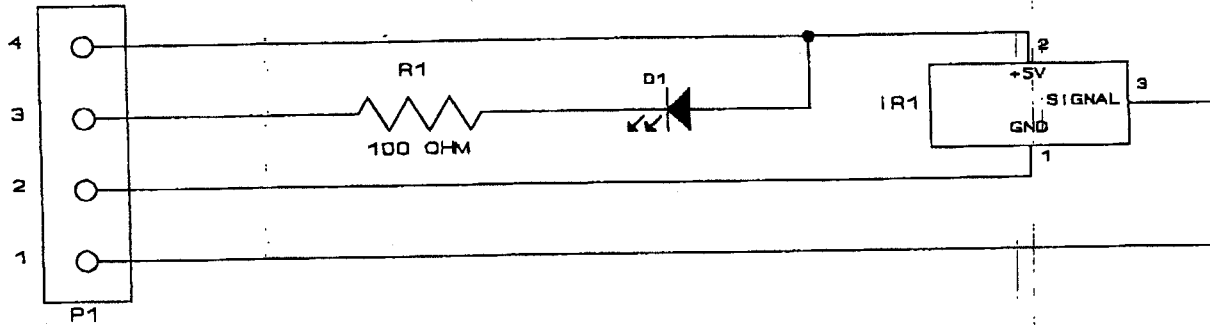
Components List For IR Remote Interface Circuit Board 61027402

C1	Capacitor - Monolithic Ceramic	100 PF	70028601
C2	Capacitor - Monolithic Ceramic	.1 UF	70028511
C3	Capacitor - Electrolytic	10 PF	70023808
C4	Capacitor - Electrolytic	10 UF	70023808
C5	Capacitor - Monolithic Ceramic	.1 UF	70028511
C6	Capacitor - Monolithic Ceramic	.1 UF	70028511
C7	Capacitor - Monolithic Ceramic	22 PF	70028705
C8	Capacitor - Monolithic Ceramic	22 PF	70028705
C9	Capacitor - Monolithic Ceramic	.01 UF	70028502
C10	Capacitor - Monolithic Ceramic	.01 UF	70028502
C11	Capacitor - Monolithic Ceramic	.1 UF	70028511
C12	Capacitor - Monolithic Ceramic	.01 UF	70028502
C13	Capacitor - Electrolytic	100 UF	70023814
C14	Capacitor - Tantalum	.33 UF	70025119
C15	Capacitor - Electrolytic	10 UF	70023808
D1	Diode - Zener	15 V	70035522
D2	Diode - Light Emitting		70035305
D3	Diode - Light Emitting		70035305
D4	Diode - Light Emitting		70035305
D5	Diode - Light Emitting		70035305
P1	Wafer - Polarizing	5 CKT	70075005
P2	Wafer - Polarizing	2 CKT	70075002
P3	Wafer - Polarizing	6 CKT	70075006
P4	Wafer - Polarizing	6 CKT	70075006
P5	Wafer - Polarizing	3 CKT	70075003
P6	Wafer - Polarizing	3 CKT	70075003
P7	Wafer - Polarizing	4 CKT	70075004
Q1	Transistor - Silicon (MPSA06) (NPN)		70030008
Q2	Transistor - Silicon (MPSA56) (PNP)		70030104
Q3	Transistor - Silicon (MPSA06) (NPN)		70030008
Q4	Transistor - Silicon (MPSA56) (PNP)		70030104

Note: All resistors are 1/4 watt 5%, unless otherwise noted.

R1	Resistor - Carbon	100 Ω	79901101
R2	Resistor - Carbon	10 K Ω	79901103
R3	Resistor - Carbon	10 K Ω	79901103
R4	Resistor - Carbon	10 K Ω	79901103
R5	Resistor - Carbon	10 K Ω	79901103
R6	Resistor - Carbon	4.7 K Ω	79901472
R7	Resistor - Carbon	4.7 K Ω	79901472
R8	Resistor - Carbon	10 M Ω	79901106
R9	Resistor - Carbon	10 K Ω	79901103
R10	Resistor - Carbon	10 K Ω	79901103

R11	Resistor - Carbon	10 K Ω	79901103
R12	Resistor - Carbon	100 K Ω	79901104
R13	Resistor - Carbon	10 K Ω	79901103
R14	Resistor - Carbon	10 K Ω	79901103
R15	Resistor - Carbon	10 K Ω	79901103
R16	Resistor - Carbon	10 K Ω	79901103
R17	Resistor - Carbon	10 K Ω	79901103
R18	Resistor - Carbon	10 K Ω	79901103
R19	Resistor - Carbon (1/2W,5%)	680 Ω	79904681
R20	Resistor - Carbon	1.1 K Ω	79901112
R21	Resistor - Carbon	10 K Ω	79901103
R22	Resistor - Carbon	4.7 K Ω	79901472
R23	Resistor - Carbon	1.8 K Ω	79901182
R24	Resistor - Carbon	4.7 K Ω	79901472
R25	Resistor - Carbon	4.7 K Ω	79901472
R26	Resistor - Carbon	4.7 K Ω	79901472
R27	Resistor - Carbon	4.7 K Ω	79901472
R28	Resistor - Carbon	10 K Ω	79901103
R29	Resistor - Carbon	330 Ω	79901331
R30	Resistor - Carbon	330 Ω	79901331
R31	Resistor - Carbon	330 Ω	79901331
R32	Resistor - Carbon	10 K Ω	79901103
R33	Resistor - Carbon	330 Ω	79901331
R34	Resistor - Carbon	10 K Ω	79901103
R35	Resistor - Carbon	10 Ω	79901100
R36	Resistor - Carbon	10 K Ω	79901103
S1	DIP Switch (4 Position)		70043002
S2	Pushbutton Switch		21773303
S3	Pushbutton Switch		21773303
S4	Pushbutton Switch		21773303
U1	I.C. - Voltage Inverter	SI7660	70036513
U2	I.C. - Dual OP Amp	LM358	30800214
U3	I.C. - Digital To Analog Converter	DAC0832	30800234
U4	I.C. - Digital To Analog Converter	DAC0832	30800234
U5	I.C. - Microcomputer	MC68HC705	70039404
U6	I.C. - Quad Comparator	LM339	70036801
U7	I.C. - Transceiver	75176	70037801
VR1	Regulator - Voltage (+5V)	LM340-5	70036505
X1	Crystal - Quartz (4.00 MHZ)		25167306



For Equivalent Engineering Drawing See 40846201 A
Figure 4. Infrared Receiver Schematic

Components List For Infrared Receiver Circuit Board 40846201

D1	Diode - Light Emitting	70035316
IR1	Infrared Detector Circuit	30800252
P1	Wafer - Polarizing (90°)	70074404
R1	Resistor - Carbon 100 Ω	79901101