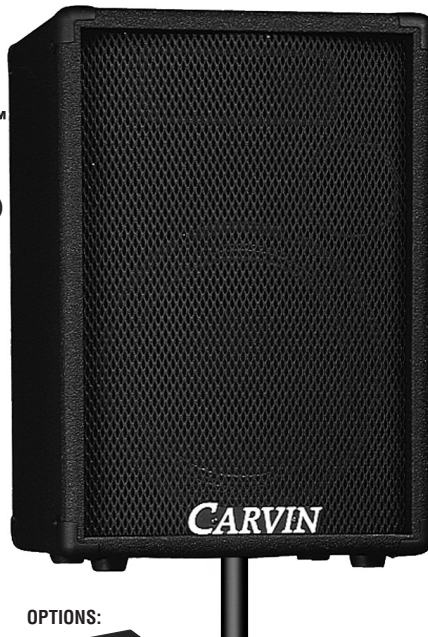




- 100 Watts
- Battery Powered
- AC Powered



**OPTIONS:**



**Note: Unit must be charged before use. If unit is intermittent, recharge for 8 hours.**

Congratulations on your purchase of the StageMate™. We've included all the great features of a full PA system into the compact portable size of the StageMate™. Then we added BATTERY POWER to make the StageMate™ work anywhere. Plus, with the "D" option model you get 256 24-BIT Digital Effects from chorus to reverb to echoes.

The StageMate™ is well suited for set-up anywhere. Use it at events like parties, picnics, club meetings, weddings, church gatherings, company functions, auctions, parades, county fairs, aerobics clubs, soccer, baseball, football, camping & beach events for quality announcements & music.

**RECEIVING INSPECTION—read before getting started**

INSPECT YOUR UNIT FOR ANY DAMAGE which may have occurred during shipping. If any damage is found, please notify the shipping company and CARVIN immediately. SAVE THE CARTON & ALL PACKING MATERIALS. In the event you have to re-ship your unit, always use the original carton and packing material. This will provide the best possible protection during shipment. CARVIN and the shipping company are not liable for any damage caused by improper packing.

SAVE YOUR INVOICE. It will be required for warranty service if needed in the future. SHIPMENT SHORTAGE. If you find items missing, they may have been shipped separately. Please allow several days for the rest of your order to arrive before inquiring. RECORD THE SERIAL NUMBER on the enclosed warranty card or below on this manual for your records. Keep your portion of the card and return the portion with your name and comments to us.

**SERVICE:** In the USA, please call 800-854-2235 for a RMA # (return authorization number). Write this number on the box and enclose a description of the problem. Prepay to Carvin 12340 World Trade Drive, SD, CA 92128.

Outside the USA, contact your dealer or go to <http://www.carvinworld.com> for your nearest service center. Include a written description of the problem with serial number and date of purchase.

**CONNECTING AND USING AC POWER**

- Connect the StageMate™ to a standard AC power outlet.
- Use only a grounded (3 prong) power outlet to prevent a shock hazard. This also gives the quietest grounding.

**OPERATING IN BATTERY MODE**

- The StageMate™ charges its battery using AC power. If the Battery Status LED indicates a low or dead battery, plug the StageMate™ into AC power and turn the power switch "ON". Usual charging time is approximately 8 hours (with dual batteries 16 hours).

**CONNECTING INPUTS TO YOUR STAGEMATE™**

- Channel 1 is designed for acoustic and electric guitars using a 1/4" phone shielded cable.
- Channels 2 through 4 are microphone & instrument inputs. Plug a microphone into the balanced XLR MIC input using an XLR shielded microphone cable and a 1/4" shielded cable from your instruments. Both can be used at the same time.

**TURNING ON YOUR STAGEMATE™**

- Adjust all channel level controls to their off position (full counter clockwise).
- Adjust all "EQ" tone controls to their center detent position.
- Adjust all channel EFF controls to their off position.
- Turn the StageMate™ on by the power switch and watch for the power LED to come on.
- Plug in your instruments and microphones into the appropriate channels, and adjust the level controls to the desired playing volumes. (For detail on the individual channel tone controls and battery charging, see the appropriate sections in this manual.)

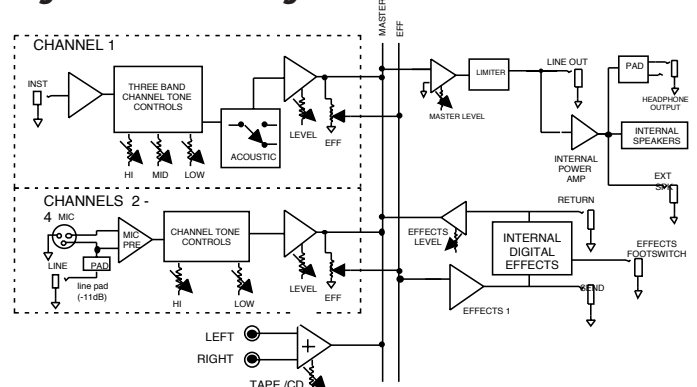
**STAGEMATE™ SPECIFICATIONS:**

<b>Frequency Response:</b>	Mic or Line Inputs: 20Hz-20KHz ±2dB
<b>Total Harmonic Distortion:</b>	Less than 1%
<b>Output Power:</b>	60 Watts RMS @ 8ohms 100 Watts RMS @ 4ohms (with 8 ohm extension speaker)
<b>Channel 1:</b>	3 band active LOW: 80Hz ±15dB MID: 750Hz ±15dB HI: 10KHz ±15dB
<b>Channel 2-4:</b>	2 band active, LOW: 80Hz ±15dB HI: 10kHz ±15dB
<b>Effects loop send &amp; return:</b>	1/4" Phone Jack
<b>Tape / CD inputs:</b>	Dual RCA jacks
<b>Cabinet Freq Resp:</b>	85 -16.5k Hz
<b>Power Requirements:</b>	150VA @ 120VAC, 12VDC @ 8 amps
<b>Size &amp; Weight:</b>	12.75Wx11.5Dx18.5H, 34lbs.

**OPTIONS:**

<b>810</b>	8Ω 200W extension speaker
<b>FS22</b>	Remote footswitch for effects
<b>SS20</b>	Speaker Stand
<b>CM50</b>	Professional mic
<b>MS12</b>	Mic Stand
<b>C25</b>	25' 12V auto power cable
<b>CV400</b>	S400 vinyl cover
<b>B400</b>	To double your battery time, install a second B400 (use as replacement)

**StageMate™ Block Diagram**



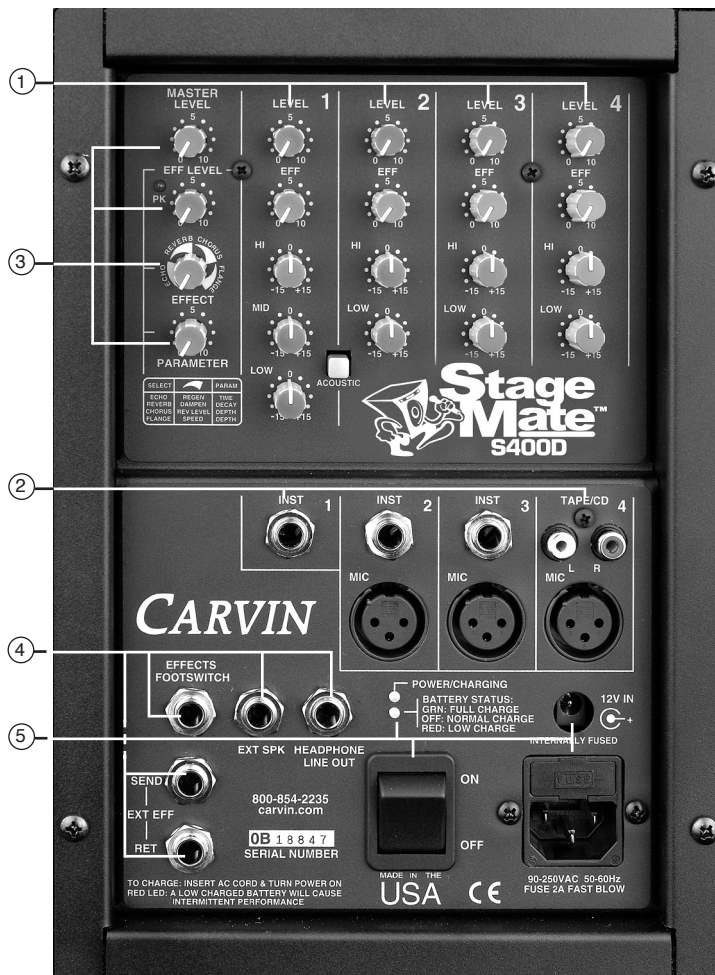
For your records, you may wish to record the following information.

Serial No. \_\_\_\_\_ Invoice Date \_\_\_\_\_



# STAGEMATE™ REAR PANEL CONTROLS

## 1. CHANNEL CONTROL FUNCTIONS



### LEVEL CONTROL

To start, turn the CHANNEL LEVEL control to 3 and the MASTER LEVEL to 3. As you require more or less volume, turn the master up and down along with the channel level. If you need more gain (sensitivity), you can turn the master and channel levels up to 10 together. However, the channel should not be set at 10 and the master at 3 or distortion could result within the pre-stages of your S400. Because all instrument and mics have different output levels, achieving full power from your S400 could happen at 5 or 10 on the levels controls.

### EFFECTS SEND CONTROL

The EFF control on each channel is the “send” to add sound effects (built-in on the S400D model). Normally you will set this control at 5 and the master EFF LEVEL at 5. Adjust accordingly to what sounds best. You should never have to run the channel send and the master effects to 10. Do not set the channel effects at 10 & the master effects at 3 or distortion could result within the effect processing circuits. These levels should be set about equal.

### tone CONTROLS - HI & LOW ( PLUS MID ON CH 1 )

Tone controls are used to shape your sound. To start, set all tone controls to their center 0 position where no tone corrections are made. Generally for microphones you’ll want to set the HI and LO controls to 3 o’clock (+6 db). This will add more depth and crispness to your voice. You will want to do this for your instruments too. Channel 1 provides a MID control for your guitar. Along with adding +6 db to the HI and LO controls, set the MID control at 9 o’clock (-6db). This takes out the unwanted 750Hz mids which have a tendency to dull the sound of your guitar.

### CHANNEL 1 ACOUSTIC SWITCH

The ACOUSTIC SWITCH is a high frequency boost set at 11K Hz for adding shimmering highs for an acoustic instrument. Push this switch in when using acoustic instruments.

## 2. CHANNEL INPUT CONNECTORS

### CHANNELS 2-4 MIC INPUTS

The MIC XLR connectors are designed for professional low impedance microphones. The instrument jacks 2-3 may also be used at the same time providing the mic doesn’t have an ON/OFF switch set to OFF. If a mic with an ON/OFF switch is used, such as Carvin’s CM50, simply leave the switch in the ON position.

### CHANNEL 1 INSTRUMENT JACK

The INST. 1 jack is designed for instruments such as an acoustic or electric guitar.

### CHANNELS 2-4 INSTRUMENT JACK

The INST. jacks 2-4 are designed for instruments or line level inputs such as a drum machine, tape deck, bass guitar, keyboard, an unbalanced mic, etc.. The sensitivity of these jacks are lower than CH 1 so LEVELS 2-4 will have to be turned higher in some cases.

### CHANNEL 4 L-R TAPE/CD RCA JACKS

The L-R TAPE / CD jacks are for connecting a tape deck or CD player to the StageMate™. The jack is configured to combine the L and R inputs from your player. Adjust the level with the Channel 4 LEVEL control. Some CD or tape players may have high output levels and the Channel 4 LEVEL control must be kept very low. The XLR MIC input and RCA TAPE/CD inputs may also be used simultaneously providing the mic doesn’t have an ON/OFF switch set to OFF. If a mic with an ON/OFF switch is used, such as Carvin’s CM50, leave the switch in the ON position.

## 3. MASTER FEATURES

### MASTER LEVEL CONTROL

The MASTER LEVEL control adjusts the over all volume of the StageMate™, including the Tape/CD, Effects level and channels. Use this control to make overall adjustments. The MASTER LEVEL should not be set much lower than the highest channel LEVEL.

### EFFECTS LEVEL CONTROL (EFFECTS RETURN LEVEL)

The EFF LEVEL control is the return volume for the effects loop and the internal DSP processor on the S400D model. To use your external effects processor, use the SEND and RETURN jacks. To ensure that the effects processor is not being overdriven by the channel SEND controls, the EFF LEVEL MASTER control should be not much lower than any of the channel EFF send levels. A normal setting for both the send and the master return effects should be about 5.

### EFFECT SELECT AND PARAMETER CONTROLS (S400D model)

The 24-BIT processor provides a host of great sounding effects including FLANGE, REVERB, ECHO, & CHORUS. Turn up the LEVEL control to 5 as a starting position. Turn the LEVEL higher if more effect signal is desired. The adjacent PK LED will flash if the EFF LEVEL is set too high. To avoid distortion, lower the EFF LEVEL. Use the SELECT and the ADJUST controls to get the desired effect (more details are below). Note: An audible noise will be heard while adjusting the effects.

### EFFECT PARAMETERS

Each of the four effects has a variable parameter that can be easily adjusted. Each “SELECT” & “PARAMETER” is described below.

**A) ECHO:** SELECT the amount of the regeneration (repeating). Now select the ADJUST control for the shortest or longest delay time between the original signal and the echo.

**B) REVERB:** SELECT the amount of presence (high frequencies) in the reverb. Now turn the ADJUST control to provide the minimum or maximum decay.

**C) CHORUS:** SELECT the amount of reverb with your chorus. Now turn the ADJUST control to increase the depth.

**D) FLANGE:** SELECT the amount of speed with your flange (phasing effect). Now turn the ADJUST control to increase the depth.

## 4. MASTER INPUT/OUTPUT CONNECTORS

### EFFECTS FOOTSWITCH JACK

The EFFECTS FOOTSWITCH jack uses a normal 1/4” plug footswitch to turn off the effects loop remotely. Use the Reverb/Effects switch on th optional Carvin FS22 footswitch.

### EXTERNAL SPEAKER JACK

For additional coverage and output, connect the Carvin 810 speaker or any quality 8 ohm speaker system. NOTE: A 4 ohm extension speaker is not recommended or lower battery time and distortion will result. Also, the added extension speaker will result in lower battery time due to higher power demands delivered by the StageMate™. We recommend installing the optional second “B400” battery to double your battery time.

### HEADPHONE/LINE OUT JACK

This jack is a dual mono output for headphones or to feed the StageMate™ audio to an external sound system. Use headphones with a STEREO 1/4” plug. Connecting headphones or a cable does not mute the internal speaker. Use the MASTER LEVEL to adjust the volume of this output.

### EFFECTS SEND JACK

To use your outboard effects processor, connect this jack into the “input” of your effects processor. The EFF level on each channel sends the signal to the processor from jack.

### EFFECTS RETURN JACK

Connect the RET jack into the “output” of your external effects processor.

## 5. POWERING YOUR STAGEMATE™

### AC POWER CORD

A detachable AC POWER CORD supplied is designed to operate and charge your StageMate™. Securely insert the cord. Use only a grounded “3” prong” power source. No attempt should ever be made to defeat or use the amp without the ground connected.

### POWER SWITCH

The power switch is to be utilized as the master ON/OFF switch. To charge the internal battery, plug the unit in and turn this switch “ON”.

### CHARGING THE INTERNAL BATTERY

While using the StageMate™ on AC power, the battery is being charged. To charge while not using be sure to leave the power switch in the “ON” position and turn the MASTER LEVEL to 0. You may leave your StageMate™ on overnight. However, it is not recommended to keep on for extended periods. The power LED indicates when the StageMate’s power is on or charging. For battery operation, be sure that the battery is fully charged. It can take up to 8 hours to recharge a dead battery (with dual batteries up to 16 hours). The maintenance-free lead acid battery does not have memory conditioning. However, if the battery is kept discharged, it can shorten the battery’s life.

### BATTERY STATUS LED

The BATTERY STATUS LED is a two color LED indicating the battery voltage level. When the LED is “GREEN”, the battery is at or very near full charge. When the LED is “off” the battery has a normal charge. When the LED is “RED” the battery will need to be recharged. Reducing volume levels will extend battery time. The unit may become intermittent in operation when the battery has a low charge.

### 12V DC JACK

The 12V jack is for connecting an external 12 volt DC power source such as an automobile cigarette lighter to power and partially recharge the StageMate™. We recommend Carvin’s C25 12V 25 ft cable adapter. Other adapters may be used, however, they must be at least 16 gauge wire and fused at 10 amps. Your car’s 12 volt battery will not fully charge the StageMate™ unless you are running your engine—charging at 14 volts. Do not use this jack if the DC voltage is over 14 volts. Do not use a “wall-wart” type supply to charge the StageMate™. Instead use the StageMate’s own internal charger by plugging the StageMate™ into AC power and turning the power switch “ON”.

### AC FUSE REPLACEMENT

To check or replace the fuse, always turn off the power switch. To examine the fuse, remove the power cord & place a screwdriver under the “FUSE” cap and pull the fuse holder out. The fuse type is a 250V Slow Blow SB 5 x 20mm rated at 2A for 120V. Only a SLOW BLOW (SB) type fuse will work. The fuse holder has room to store a spare fuse.



## OPTIONS & USAGE TIPS



### Options

The bottom of the StageMate™ has a built in stand insert and is ready to use with Carvin’s SS20 Speaker Stand. The optional B400 battery kit is used as a battery replacement or to double your battery running time. CV400 Cover is designed to protect against dust and moisture. The C25 adapter allows you to connect to your 12 volt auto’s cigarette lighter. FS22 footswitch remotely switches the effects loop off & on. For hands free speech or singing, use one of Carvin’s mic stands: MS15 or MS12 (pictured).

### Controlling Feedback

Keep the mic away from the speaker to avoid feedback. If feedback occurs, move your speakers forward and your mic back so the amplified sound isn’t picked up by the mic.



### The Optional 810 Extension Speaker

The optional 810 matching extension speaker can be used to increase audience coverage. For performances where the person(s) on stage needs to hear and monitor their sound, the StageMate™ and 810 extension speaker can be slightly rotated to face inward at the performer for onstage monitoring.



### Outdoor Events

The battery powered StageMate™ is ideal for outdoor events including little league games, beach parties and camping. The Tape/CD inputs allows for the StageMate™ to become a portable Karaoke system.

The cabinet features Carvin’s durable Duratex™ coating. The StageMate™ should be kept free from dirt and moisture to preserve proper function. Keep the entire cabinet covered when not in use. The optional CV400 is ideal for protecting the StageMate™ from dust when not in use.

## ADD A SECOND BATTERY TO DOUBLE YOUR OPERATION TIME

The optional second B400 battery is recommended for longer operation at high volume levels and when adding the 810 extension speaker.

1. To add the second battery, remove the 4 screws from the StageMates™ rear chassis and carefully remove the chassis from the cabinet. FIG 1
2. Observe the empty slot on the right bottom side of the cabinet and place the battery into position and install the L bracket that comes with the B400 kit to hold the battery in place.
3. The original battery on the left has spare terminals for connecting the second battery. Simply connect the supplied B400 battery wires to the negative and positive terminals on the original battery. Always match negative (-) to negative and positive (+) to positive. Black is used for negative (-) and red for positive (+). Never allow a negative wire or terminal to touch a positive wire or terminal or “sparks will fly” with possible damage to the battery. If in doubt, please call our service department Mon. - Fri. at 800-854-2235.

## REPLACING THE BATTERY

After a few years of use, if you notice your operation time has been greatly reduced, you will need to replace the battery as the cells may have weakened with age. The B400 battery kit is shipped with connecting wires for use as a second battery. If you are replacing your old battery, discard these wires as you will not need them.

- A) To replace your battery, remove the 4 screws from the StageMate’s™ rear chassis and carefully remove the chassis from the cabinet. FIG 1
- B) Locate the battery mounted on the left side of the cabinet FIG 2 and remove the L bracket. Simply pull the wires from the positive and negative battery terminals on the old battery and reconnect your new battery (B400). Be sure to match negative (-) to negative and positive (+) to positive. Black is used for negative (-) and red for positive (+). Be sure not to short the battery terminals with a screwdriver or “sparks will fly” with possible damage to the battery.

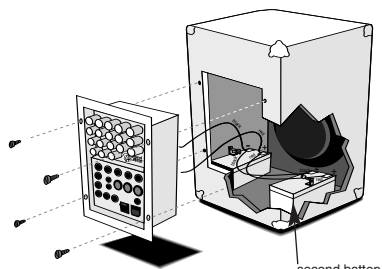


FIG 1 Cutaway view

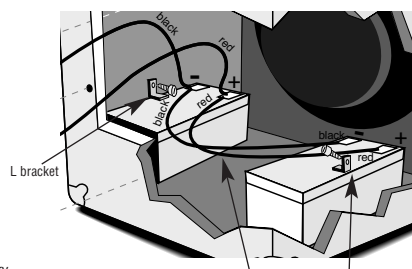




FIG 2 Cutaway view

 This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN  


This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.  


**LIMITED WARRANTY**

Your Carvin StageMate™ is guaranteed against failure for ONE YEAR unless otherwise stated. Carvin will service and supply all parts at no charge to the customer providing the unit is under warranty. Shipping costs are the responsibility of the customer. CARVIN DOES NOT PAY FOR PARTS OR SERVICING OTHER THAN OUR OWN. A COPY OF THE ORIGINAL INVOICE IS REQUIRED TO VERIFY YOUR WARRANTY. Carvin assumes no responsibility for horn drivers or speakers damaged by this unit. This warranty does not cover, and no liability is assumed, for damage due to: natural disasters, accidents, abuse, loss of parts, lack of reasonable care, incorrect use, or failure to follow instructions. This warranty is in lieu of all other warranties, expressed or implied. No representative or person is authorized to represent or assume for Carvin any liability in connection with the sale or servicing of Carvin products. CARVIN SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

**SERVICE:** In the USA, please go to [www.carvin.com/cs](http://www.carvin.com/cs)  
Outside the USA, contact your dealer or go to <http://www.carvinworld.com> for your nearest service center. Include a written description of the problem with serial number and date of purchase.

**HELP SECTION**

1) StageMate™ WILL NOT TURN ON  
Check the power to the StageMate™. Check for tripped circuit breakers, unplugged extension cords or power-strip switches that may be turned off. Check the fuse. If a dark brownish color or no wire can be seen within the glass tube, then replace. The amp may be perfectly fine but occasionally a fuse may blow because of high AC voltage surges. However, after the fuse has been replaced with the proper Slow Blow value and if the fuse fails again, the amp will require servicing.

2) MAINTENANCE  
To bring back the new look, your StageMate™ cabinet can be washed with mild detergent and/or a warm damp soft cloth. This will remove normal dust and oil from the front and back panels. Never spray cleaners or detergents directly at the units electronic controls. It is recommended to keep the StageMate™ free from dust, dirt, and moisture as much as possible.

**IMPORTANT! FOR YOUR PROTECTION, PLEASE READ THE FOLLOWING:**

**WATER AND MOISTURE:** Appliance should not be used near water (near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.). Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

**POWER SOURCES:** The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

**GROUNDING OR POLARIZATION:** Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.

**POWER CORD PROTECTION:** Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

**SERVICING:** The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

**FUSING:** If your unit is equipped with a fuse receptacle, replace only with the same type fuse. Refer to replacement text on the unit for correct fuse type.

**SAFETY INSTRUCTIONS (EUROPEAN)**

The conductors in the AC power cord are colored in accordance with the following code.  
**GREEN & YELLOW—Earth BLUE—Neutral BROWN—Live**  
U.K. MAIN PLUG WARNING: A molded main plug that has been cut off from the cord is unsafe. NEVER UNDER ANY CIRCUMSTANCES SHOULD YOU INSERT A DAMAGED OR CUT MAIN PLUG INTO A POWER SOCKET.

**REPLACEMENT PARTS LIST (for circuit cards)**

Ref. Des.	Carvin P/N	Description	C39	41-47321	0.047µF 250 VAC
A1	60-45580	Op Amp MC4558	C4	45-58152	500PF 500V
A10	60-45580	Op Amp MC4558	C400	46-10412	0.1µF 100V
A2	60-45580	Op Amp MC4558	C401	45-82052	82PF 500V
A3	60-45580	Op Amp MC4558	C402	45-82052	82PF 500V
A4	60-45580	Op Amp MC4558	C403	47-22051	22µF 50V
A5	60-45580	Op Amp MC4558	C404	47-22051	22µF 50V
A6	60-45580	Op Amp MC4558	C405	45-27052	27PF 500V
A7	60-45580	Op Amp MC4558	C406	45-27052	27PF 500V
A8	60-45580	Op Amp MC4558	C07	47-22051	22µF 50V
A9	60-45580	Op Amp MC4558	C408	46-10412	0.1µF 100V
C1	45-82052	82PF 500V	C409	46-10312	0.01µF 100V
C10	47-22051	22µF 50V	C41	45-27052	27PF 500V
C100	46-10412	0.1µF 100V	C410	47-22051	22µF 50V
C101	45-39052	39PF 500V	C411	45-39052	39PF 500V
C102	47-22051	22µF 50V	C412	47-22051	22µF 50V
C103	46-10212	0.001µF 100V	C413	45-12152	120PF 500V
C104	46-10212	0.001µF 100V	C414	45-39052	39PF 500V
C105	46-22312	0.022µF 100V	C42	46-47312	0.047µF 100V
C106	47-22051	22µF 50V	C43	47-22051	22µF 50V
C107	46-33212	0.0033µF 100V	C44	47-22051	22µF 50V
C108	45-12152	120PF 500V	C45	47-22051	22µF 50V
C109	47-22051	22µF 50V	C46	47-22051	22µF 50V
C11	47-22051	22µF 50V	C5	47-22051	22µF 50V
C110	45-39052	39PF 500V	C6	45-18152	180PF 500V
C12	45-12152	120PF 500V	C7	47-22151	220µF 50V
C13	45-12152	120PF 500V	C8	46-47412	0.47µF 63V
C14	48-01031	1µF 35V	C9	47-22051	22µF 50V
C15	47-10225	1000µF 25V	D1	61-19140	1N914 HI SPD
C16	47-22151	220µF 50V	D10	61-40030	1N4003
C17	46-10312	0.01µF 100V	D11	61-40030	1N4003
C18	47-22151	220µF 50V	D12	61-40030	1N4003
C19	45-10551	0.1µF 50V	D13	61-40030	1N4003
C2	47-22051	22µF 50V	D14	60-50200	Diode 3A 200V
C20	47-10225	1000µF 25V	D15	60-50200	Diode 3A 200V
C200	46-10412	0.1µF 100V	D16	61-40030	1N4003
C201	45-82052	82PF 500V	D17	61-40030	1N4003
C202	45-82052	82PF 500V	D18	60-50200	Diode 3A 200V
C203	45-82051	82PF 500V	D19	60-50200	Diode 3A 200V
C204	47-22051	22µF 50V	D2	61-19140	1N914 HI SPD
C205	45-27052	27PF 500V	D20	60-50200	Diode 3A 200V
C206	45-27052	27PF 500V	D21	60-50200	Diode 3A 200V
C207	47-22051	22µF 50V	D22	61-40030	1N4003
C208	46-10412	0.1µF 100V	D23	61-40030	1N4003
C209	46-10312	0.01µF 100V	D3	61-19140	1N914 HI SPD
C21	47-10225	1000µF 25V	D4	61-19140	1N914 HI SPD
C210	47-22051	22µF 50V	D5	60-75340	Yellow small
C211	45-39052	39PF 500V	D6	61-40030	1N4003
C212	47-22051	22µF 50V	D7	60-75030	BiColor Rd:Grn
C213	45-12152	120PF 500V	D8	60-50200	Diode 3A 200V
C214	45-39052	39PF 500V	E1	25-22204	Rot Encoder Vert
C23	42-47251	4700µF 50V	H1	23-11008	8 Pin Vert
C24	45-12152	4700µF 50V	H10	23-10600	2 Pin Vert SHS
C25	46-10312	0.01µF 100V	H11	23-11004	4 Pin Vert
C26	47-10061	10µF 63V	H2	23-11002	2 Pin Vert SHS
C27	47-10061	10µF 63V	H3	23-11004	4 Pin Vert
C28	47-10061	10µF 63V	H4	23-11010	10 Pin Vert
C29	45-10551	0.1µF 50V	H5	23-11004	4 Pin Vert
C3	45-56152	560PF 500V	H6	23-11008	8 Pin Vert
C30	45-10551	0.1µF 50V	H7	23-11004	4 Pin Vert
C300	46-10412	0.1µF 100V	H8	23-15605	Header 5V Large
C301	45-82052	82PF 500V	H9	23-15605	Header 5V Large
C302	45-82052	82PF 500V	J1	21-50345	Ph Jack 3P Rean
C303	47-22051	22µF 50V	J100	21-50345	Ph Jack 3P Rean
C304	47-22051	22µF 50V	J2	21-50345	Ph Jack 3P Rean
C305	45-27052	27PF 500V	J200	21-50345	Ph Jack 3P Rean
C306	45-27052	27PF 500V	J201	21-40000	XLRF Neutrik
C307	47-10225	1000µF 25V	J3	21-50345	Ph Jack 3P Rean
C308	46-10412	0.1µF 100V	J300	21-50345	Ph Jack 3P Rean
C309	46-10312	0.01µF 100V	J301	21-40000	XLRF Neutrik
C31	45-10551	0.1µF 50V	J4	21-40020	Phono Jack x2
C310	47-22051	22µF 50V	J400	21-50345	Ph Jack 3P Rean
C311	45-39052	39PF 500V	J401	21-40000	XLRF Neutrik
C312	47-22051	22µF 50V	J5	21-50345	Ph Jack 3P Rean
C313	45-12152	120PF 500V	J6	21-06600	7 Pin Plastic
C314	45-39052	39PF 500V	J7	21-50345	Ph Jack 3P Rean
C32	45-10551	0.1µF 50V	K1	70-05505	Relay 24V5A DPDT
C33	45-10551	0.1µF 50V	K2	70-05505	Relay 24V5A DPDT
C34	45-10551	0.1µF 50V	OP1	60-50253	Opto Isolator
C35	45-10551	0.1µF 50V	P1	71-09063	B50K D Vrt 9m35 B
C36	45-10551	0.1µF 50V	P100	71-09062	B50K-C D Vt 9/35B
C37	47-10061	10µF 63V	P101	71-09062	B50K-C D Vt 9/35B
C38	45-12152	120PF 500V	P102	71-09062	B50K-C D Vt 9/35B

 **CAUTION**  
RISK OF ELECTRIC SHOCK

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL! THIS UNIT CONTAINS HIGH VOLTAGE INSIDE!

P103	71-09063	B50K D Vrt 9m35 B	R23	50-82035	8.2K
P104	71-09063	B50K D Vrt 9m35 B	R24	50-47025	4.7K
P2	71-09063	B50K D Vrt 9m35 B	R25	50-10035	1K
P200	71-09062	B50K-C D Vt 9/35B	R26	50-10035	1K
P201	71-09062	B50K-C D Vt 9/35B	R27	50-15045	15K
P202	71-09062	B50K D Vrt 9m35 B	R28	50-15045	15K
P203	71-09063	B50K D Vrt 9m35 B	R29	50-82035	8.2K
P3	71-09063	B50K D Vrt 9m35 B	R3	50-47025	470Ω
P300	71-09062	B50K-C D Vt 9/35B	R30	50-10045	10K
P301	71-09062	B50K-C D Vt 9/35B	R300	50-22035	220K
P302	71-09063	B50K D Vrt 9m35 B	R301	50-56231	5.62K
P303	71-09063	B50K D Vrt 9m35 B	R302	50-56231	5.62K
P400	71-09062	B50K-C D Vt 9/35B	R303	50-15055	150K
P401	71-09062	B50K-C D Vt 9/35B	R304	50-15055	150K
P402	71-09063	B50K D Vrt 9m35 B	R305	50-47035	4.7K
PA03	71-09063	B50K D Vrt 9m35 B	R306	50-82035	8.2K
PL1	21-02804	DC Power Socket	R307	50-10035	10K
PL2	21-02804	Jack AC W/ Fuse	R308	50-47035	4.7K
Q1	60-78151	7815 +15V3A	R309	50-10035	1K
Q2	60-15006	MTP50N06	R31	50-10015	10Ω
Q3	60-15006	MTP50N06	R310	50-82035	8.2K
Q4	60-15006	MTP50N06	R311	50-10045	10K
Q5	60-15006	MTP50N06	R312	50-22045	22K
Q6	60-15006	MTP50N06	R313	50-15045	15K
Q7	60-78150	7815 +15V	R314	50-22041	22K 1%
Q8	60-00014	Darlington NPN	R315	50-22041	22K 1%
QC1	06-40060	QC 90° Horizontal	R32	50-56231	5.62K
QC10	06-40050	QC Vertical .250	R33	50-24045	24K
QC11	06-40050	QC Vertical .250	R34	50-15045	15K
QC12	06-40080	QC 90° Horizontal	R35	50-24045	24K
QC13	06-47025	QC Vertical .250	R36	50-82025	8.2K
QC14	06-40050	QC Vertical .250	R37	50-10035	10K
QC2	06-40060	QC 90° Horizontal	R38	50-10035	1K
QC3	06-40060	QC 90° Horizontal	R39	50-10035	1K
QC4	06-40060	QC 90° Horizontal	R4	50-10035	1K
QC5	06-40050	QC Vertical .250	R40	50-10035	1K
QC6	06-40080	QC 90° Horizontal	R400	50-22055	220K
QC7	06-40080	QC 90° Horizontal	R41	50-56231	5.62K
QC8	06-40060	QC 90° Horizontal	R402	50-56231	5.62K
QC9	06-40050	QC Vertical .250	R403	50-15055	150K
R1	50-47025	470Ω	R404	50-15055	150K
R10	50-15045	15K	R405	50-47035	4.7K
R100	50-15055	150K	R406	50-82035	8.2K
R101	50-30055	300K	R407	50-10055	100K
R102	50-15035	1.5K	R408	50-47035	4.7K
R103	50-15035	1.5K	R409	50-10035	1K
R104	50-22045	22K	R41	50-22035	2.2K
R105	50-47045	47K	R410	50-82035	8.2K
R106	50-15035	1.5K	R411	50-10045	10K
R107	50-10045	10K	R412	50-22045	22K
R108	50-12045	12K	R413	50-15045	15K
R109	50-22045	22K	R414	5	