

- 100 Watts
- Battery Powered
- AC Powered





FS22 Footswitch for effects

C25 25' 12V auto cable



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.

If unit is intermittent, recharge for 8 hours.

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.

For	vour	records	vou may	wish to	record	the	following	information.
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Serial No. Invoice Date

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:

Frequency Response: Mic or Line Inputs: 20Hz-20KHz ±2dB

Total Harmonic Distortion: Less than 1%

Output Power: 60 Watts RMS @ 8ohms

100 Watts RMS @ 4ohms (with 8 ohm extension speaker)

Channel 1: 3 band active

LOW: 80Hz ±15dB MID: 750Hz ±15dB HI: 10KHz ±15dB

2 band active, Channel 2-4

LOW: 80Hz ±15dB HI: 10kHz ±15dB

Effects loop send & return: 1/4" Phone Jack Tape / CD inputs: Dual RCA jacks Cabinet Freq Resp: 85 -16 5k Hz

Power Requirements: 150VA @ 120VAC, 12VDC @ 8 amps Size & Weight: 12.75Wx11.5Dx18.5H, 34lbs.

8Ω 200W extension speaker 810 FS22 Remote footswitch for effects

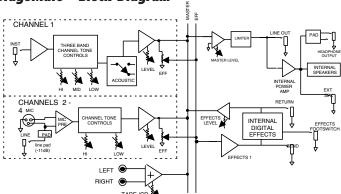
SS20 Speaker Stand CM50 Professional mic MS12 Mic Stand

25' 12V auto power cable CV400 S400 vinyl cover

To double your battery time, install a second B400 (use as replacement)

StageMate™ Block Diagram

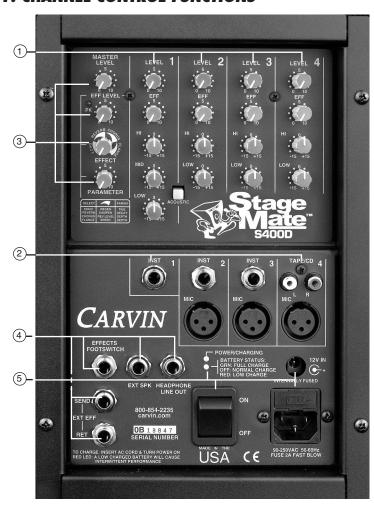
OPTIONS:





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 (\$400D 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 StageMateTM. 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 TM . 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 StageMateTM 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 StageMateTM 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'™ 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 5×20 mm 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 \$\$20 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

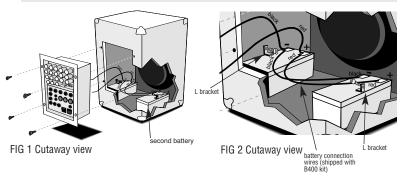
The optional second B400 battery is recommended for longer operation at high volume levels and when adding the 810 extension speaker.

- 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.



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.

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.

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 SER-VICING 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 call 800-235-2235 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.

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.

REPLACEMENT PARTS LIST (for circuit cards)

Ref. Des	s. Carvin P/N	Description	C39	41-47321	0.047µF 250 VAC
A1	60-45580	Op Amp MC4558	C4	45-56152	560PF 500V
A10	60-45580	Op Amp MC4558	C400	46-10412	0.1μF 100V 82PF 500V
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	22uF 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	C407	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 1uE 100V	C410	47-22051	22uF 50V
C101	45-39052	0.1µF 100V 39PF 500V	C411	45-39052	22µF 50V 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
C105 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	12011 3004	C9	47-22051	22µF 50V
C15	47-10225	1μF 35V 1000μF 25V	D1	61-19140	1N914 HI SPD
C16	47-10225	220µF 50V	D10	61-40030	1N914 HI 3FD 1N4003
C17	46-10312	0.01μF 100V	D11	61-40030	1N4003 1N4003
C18	47-22151		D11		1N4003
C19	45-10551	220μF 50V 0.1μF 50V	D12	61-40030 61-40030	1N4003 1N4003
C2	47-22051	0.1μF 50V	D13		
	47-10225	22µF 50V		60-50200	Diode 3A 200V
C20		1000µF 25V	D15	60-50200	Diode 3A 200V
C200	46-10412	0.1μF 100V 82PF 500V	D16 D17	61-40030	1N4003
C201	45-82052			61-40030	1N4003
C202	45-82052	82PF 500V	D18	60-50200	Diode 3A 200V
C203	47-22051	22μF 50V	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 0.01μF 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	42-47251	4700µF 50V	H10	23-11002	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 0.1μF 50V	H4	23-11010	10 Pin Vert
C29	45-10551		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 82PF 500V	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	47-22051	22μF 50V	J3	21-50345	Ph Jack 3P Rean
C308	46-10412	0.1μF 100V 0.01μF 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 C312	45-39052	39PF 500V	J401	21-40000	XLRF Neutrik
U312	47-22051	22µF 50V	J5	21-50345	Ph Jack 3P Rean
C313	45-12152	120PF 500V	J6	21-06457	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 C34	45-10551	0.1μF 50V 0.1μF 50V	K2	70-05505	Relay 24V5A DPDT
	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
			1		



REFER SERVICING TO QUALIFIED SER-VICE PERSONNEL! THIS UNIT CON-

D400	74 00000	DEAK D.V. C. OF D	B00	E0 0000E	0.01/
P103	71-09063	B50K D Vrt 9m35 B	R23	50-82035	8.2K
P104	71-09063	B50K D Vrt 9m35 B	R24	50-47035	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	71-09063	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 B50K-C D Vt 9/35B	R30	50-10045	10K
P301	71-09062	B50K-C D Vt 9/35B	R300	50-22055	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	71-03062	D50K C D Vt 3/05D	R304	50-15055	150K
P402	71-03002	B50K-C D Vt 9/35B B50K D Vrt 9m35 B	R305	50-47035	4.7K
	71-09063	DOOK D VILGINGS D		50-47035	4.7K
P403	71-09063	B50K D Vrt 9m35 B	R306	50-82035	8.2K
PL1	21-00041	DC Power Socket	R307	50-10055	100K
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		MTP50N06			
	60-15006		R312	50-22045	22K
Q6	60-78150	7815 +15V	R313	50-15045	15K
Q7	60-79150	7915 -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	06-40060	QC 90° Horizontal	R35	50-24045	24K
QC13	06-40050	QC Vertical .250	R36	55-05022	0.05Ω 5W Vert.
QC14	06-40050	QC Vertical .250	R37		0.0312 5W Vert.
		QC vertical .250		50-10035	
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	06-40060	QC 90° Horizontal	R400	50-22055	220K
QC7	06-40060	QC 90° Horizontal	R401	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
QC9	50-47025	470Ω	R404		150K
R1				50-15055	
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	50-10045	10K	R409	50-10035	1K 2.2K
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
			R412		15K
R108 R109	50-12045	12K		50-15045	ION
	50-22045	22K	R414	50-22041	22K 1%
R11	50-47025	470Ω	R415	50-22041	22K 1%
R110	50-15045	15K	R42	50-30055	300K
R111	50-15035	1.5K	R43	50-47055	470K
R12	50-47025	470Ω	R44	50-47035	4.7K
R13	50-10045	10K	R45	50-68025	680Ω
R14	55-03305	.33Ω 5W Wire	R46	50-15045	15K
R15	50-22045	22K	R47	50-10045	10K
R16	50-30035	3K	R48	50-10045	10K
R17	54-10015	10Ω 2W	R49	50-33045	33K
R18		470Ω 1W	R5	50-33045	10K
	53-47025		H5	50-10045	10K
R19	53-47025	470Ω 1W	R50	50-22065	2.2M
R2	50-22045	22K	R51	50-10025	100Ω
R20	50-10045	10K	R52	50-15025	150Ω
R200	50-22055	220K	R53	50-22025	220Ω
R201	50-56231	5.62K	R54	50-10035	1K
R202	50-56231	5.62K	R6	50-10045	10K
R203	50-15055	150K	R63	50-68045	68K
R204	50-15055	150K	R7	50-47045	47K
R205	50-47035	4.7K	R8	50-47045	47K
R206	50-82035	8.2K	R9	50-10045	10K
R207	50-02055	100K	S1	25-02201	DPDT Push Vert
R208	50-10035	4.7K	S2	06-40040	SwitchAC DPST QCs
R208			52 U1		TDA7294
	50-10035	1K		60-72940	
R21	50-10045	10K	U2	60-35260	SG3526
R210	50-82035	8.2K	Z1	61-04733	Zener 5.1V
R211	50-10045	10K	Z2	61-47450	Zener 16V
R212	50-22045	22K	Z3	61-47450	Zener 16V
R213	50-15045	15K			
D044					
R214	50-22041	22K 1%			
R215	50-22041 50-22041	22K 1%			
	50-22041				