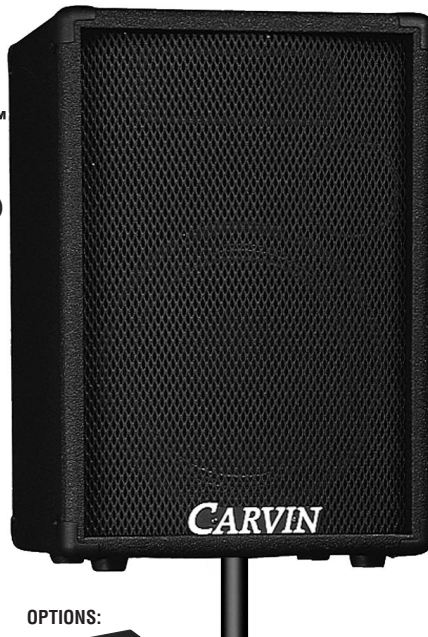




- 100 Watts
- Battery Powered
- AC Powered



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.)

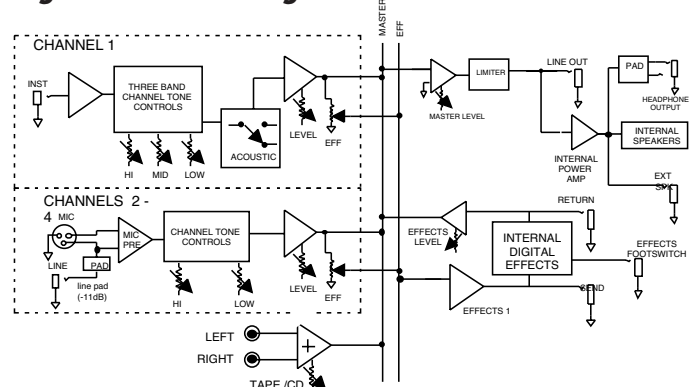
STAGEMATE™ SPECIFICATIONS:

| | |
|--|--|
| 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 |
| Channel 2-4: | 2 band active, 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. |

OPTIONS:

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

StageMate™ Block Diagram



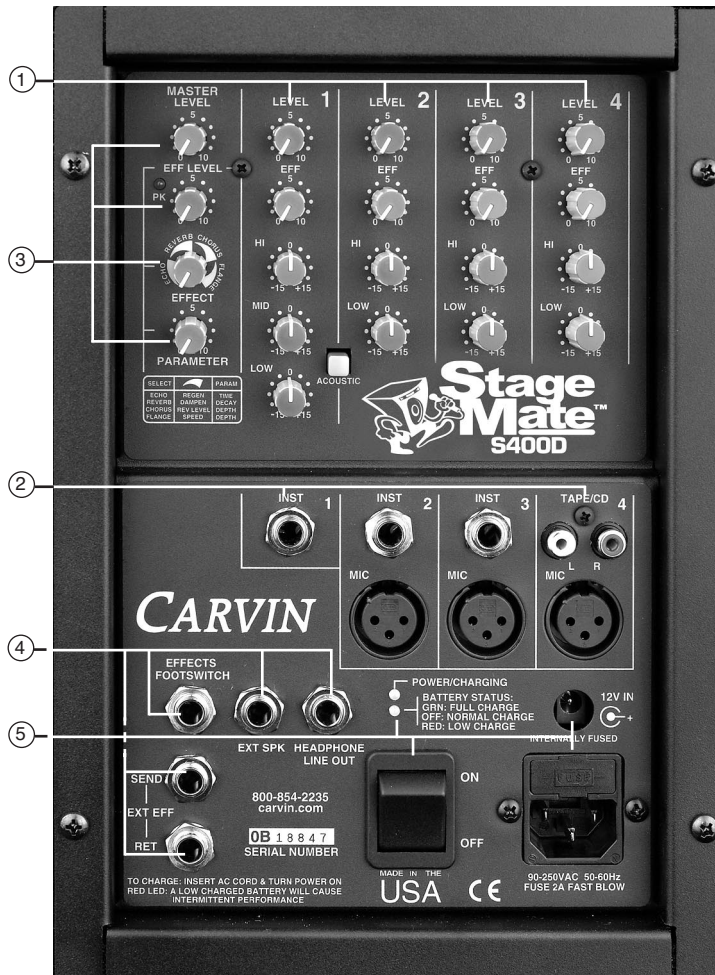
For your records, you may wish to record the following information.

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.

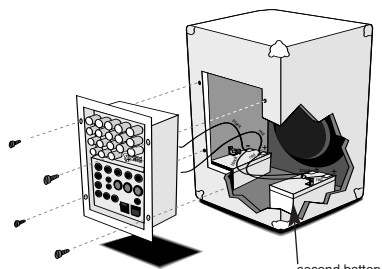


FIG 1 Cutaway view

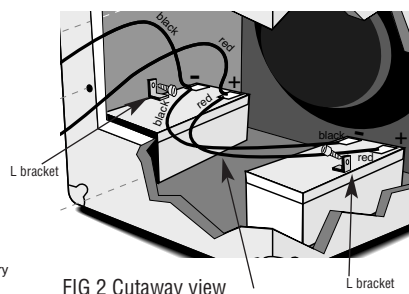


FIG 2 Cutaway view

