



VF-100 PASSIVE HIGH-PASS FILTER OPERATING INSTRUCTIONS

The M&K VF-100 gives you full bass bi-amplification with your M&K Powered Subwoofer, using purely passive circuitry to introduce virtually no noise or distortion. There is no low pass filter in the VF-100, because M&K Subwoofers have internal filter circuitry that matches the high-pass of the VF-100. The VF-100 will not work with M&K Subwoofers without RCA inputs (Volkswagen, VW-A, VW-III).

USING THE PROPER VF-100

We make three versions of the VF-100, designated A, B, and C, in order to best match the input impedance of your power amp. Consult your amplifier's manual to find the *input impedance* of the *power amplifier* section only. Most amps and receivers will use the B version. If you cannot find this from the literature, consult your M&K dealer or the amplifier's manufacturer. If you can't find its impedance from these sources, use the B version.

If the input impedance is:	Use the:
less than 37.5 K ohms	A version
between 37.5 and 75 K ohms	B version
more than 75 K ohms	C version

LOCATION OF THE VF-100

The VF-100 can usually be located conveniently around your components. It is sensitive to hum, however, so it cannot be placed next to a power transformer. If the VF-100 sits too close to the transformer in a power amp or receiver, it will pick up hum. If you hear system hum when using the VF-100, try relocating the VF-100.

WIRING THE VF-100

IMPORTANT NOTE: Use **ONLY** a *low capacitance* interconnect cable between the VF-100 and your main power amplifier. This cable should be as short as possible. The capacitance and length of the cable to the Subwoofer are not critical.

The VF-100 has three pairs of jacks. From left to right, they are: TO SUBWOOFER; TO MAIN AMP; and FROM PREAMP.

1. Run a stereo interconnect cable from the MAIN output of your preamplifier (or PREAMP OUTPUT jacks on an integrated amplifier or receiver) to the FROM PREAMP jacks on the VF-100. Run one side from the preamp Left MAIN output to the top FROM PREAMP jack. Run the other side from the preamp Right MAIN output to the bottom FROM PREAMP jack.

2. Run a *low capacitance* stereo interconnect cable from the TO MAIN AMP jacks on the VF-100 to the power amplifier's INPUT (or integrated amp/receiver's MAIN or POWER AMP IN). Run one side between the top jack and the power amp's Left INPUT. Run the other side between the bottom jack and the power amp's Right INPUT.

3. Run a stereo interconnect cable from the TO SUBWOOFER jacks on the VF-100 to your Subwoofer's FROM PREAMP jacks. The top jack feeds the Left FROM PREAMP jack and the bottom jack feeds the right FROM PREAMP jack. The wiring is now complete.

WARNING: Do not use a Y-connector to combine the TO SUBWOOFER jacks on your VF-100. This will cause a loss of stereo in the left and right channels and may damage your equipment.

FINAL ADJUSTMENT OF YOUR SYSTEM

Final adjustment is a matter of setting the Subwoofer's BASS LEVEL control so that both bass and treble levels are balanced. The best method is to set the level by ear -- and when your system sounds balanced to fit your room and personal preferences, it is correct. In a few minutes, listening to familiar recordings, you will be able to set the balance of your system so that it is very nearly perfect. If you pay close attention in further listening sessions, making fine adjustments when you feel they are appropriate, you will soon have the precise balance you want. Time spent experimenting is well invested in the achievement of an ideally balanced system. See your Subwoofer owner's manual for more detailed information.

SETTING THE FILTER ADJUSTMENT ON YOUR SUBWOOFER

When using the VF-100, setting the FILTER adjustment on the back of your Subwoofer is very important. As you adjust the BASS LEVEL control to match the Subwoofer and Satellite speakers, you also adjust the FILTER control to match the speakers. The FILTER control will probably give you the best results when set between 70 and 90 Hz. If you are not interested in experimenting, set the control at 85 Hz. Again, see your Subwoofer owner's manual.

As above, listen carefully and make adjustments when they seem necessary. Set the FILTER adjustment to the point where you hear a seamless blend between the Satellite speakers and the Subwoofer.

If you have any further questions about the use of your VF-100, please don't hesitate to call us for additional help.

