



HP-80-3 80 Hz 12 dB/OCTAVE PASSIVE HIGH-PASS FILTER - 3 CHANNEL VERSION

The M&K HP-80 gives you full biampification with your M&K Powered Subwoofer, using passive circuitry to introduce virtually no noise or distortion. The matching low pass circuit is in the amplifier of your M&K Subwoofer. The HP-80 is an 80 Hz filter. Its response is -3 dB at 80 Hz.

THREE CHANNEL VERSION

The three channel version of the HP-80 (HP-80-3) is designed for Dolby Pro-Logic systems. It provides high pass filtering for the front left, center, and right channels. The HP-80-3 does not include a subwoofer output. To use the HP-80, your amplifier or processor **MUST** have a subwoofer (or Mono) output. Contact M&K or your dealer if you have questions.

LOCATION OF THE HP-80

The HP-80 can be placed near your other components. In some very rare instances, however, it may be sensitive to hum. If you hear system hum when using the HP-80, move the HP-80 away from your amp or receiver. It is probably picking up hum from a power transformer in the amplifier.

SETTING THE "AMP INPUT IMPEDANCE" SWITCH

On the HP-80 back panel is a three-position switch, marked A, B, and C. Set this switch to 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 use the C position. Consult your dealer or the amplifier's manufacturer if you can't find this spec. If you are unable to identify the impedance, set the switch to the C position.

	Optimized for	Use for input impedances
A position	10 Kohms	10K ohms to 19.9 Kohms
B position	22 Kohms	20K ohms to 29.9 Kohms
C position	47 Kohms	30K ohms and over

WIRING THE HP-80

IMPORTANT: Use a low capacitance interconnect cable between the HP-80 and your main amplifier. Use the shortest cable possible. The capacitance and length of the cable to the Subwoofer are not critical.

The HP-80 has three pairs of jacks. From left to right, they are: RIGHT IN (top), RIGHT OUT (bottom); CENTER IN (top), CENTER OUT (bottom); and LEFT IN (top), and LEFT OUT (bottom).

1. To connect the HP-80, you will need to run three pairs (or six single) low capacitance interconnect cables between the HP-80 and your other components. You will use all six jacks on the HP-80.

Start with the Left channel. Connect one cable from the Left MAIN OUTPUT jack on your preamplifier or controller (or PREAMP OUTPUT on an integrated amplifier or receiver) to the LEFT IN jack on the HP-80.

Then connect a second cable from the LEFT OUT jack on the HP-80 to the Left MAIN INPUT jack on your power amp (or PREAMP INPUT on an integrated amp or receiver).

Then make connections for the Center and Right channels, following the instructions above (substitute the appropriate channel name). For each channel, one cable connects from MAIN or PREAMP OUT on the preamp or processor to IN on the HP-80; another cable connects from OUT on the HP-80 to MAIN or PREAMP IN on the amplifier.

2. Run an interconnect cable from the processor or receiver's SUBWOOFER (or MONO) OUT jack to the subwoofer's LEFT/MONO FROM PREAMP. With two subwoofers, you may have to use a Y-connector. See your subwoofer owner's manual for more information.

SETTING THE "BASS LEVEL" CONTROL ON THE SUBWOOFER

Final adjustment means 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 -- 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. By paying close attention in further listening sessions and making fine adjustments when 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.

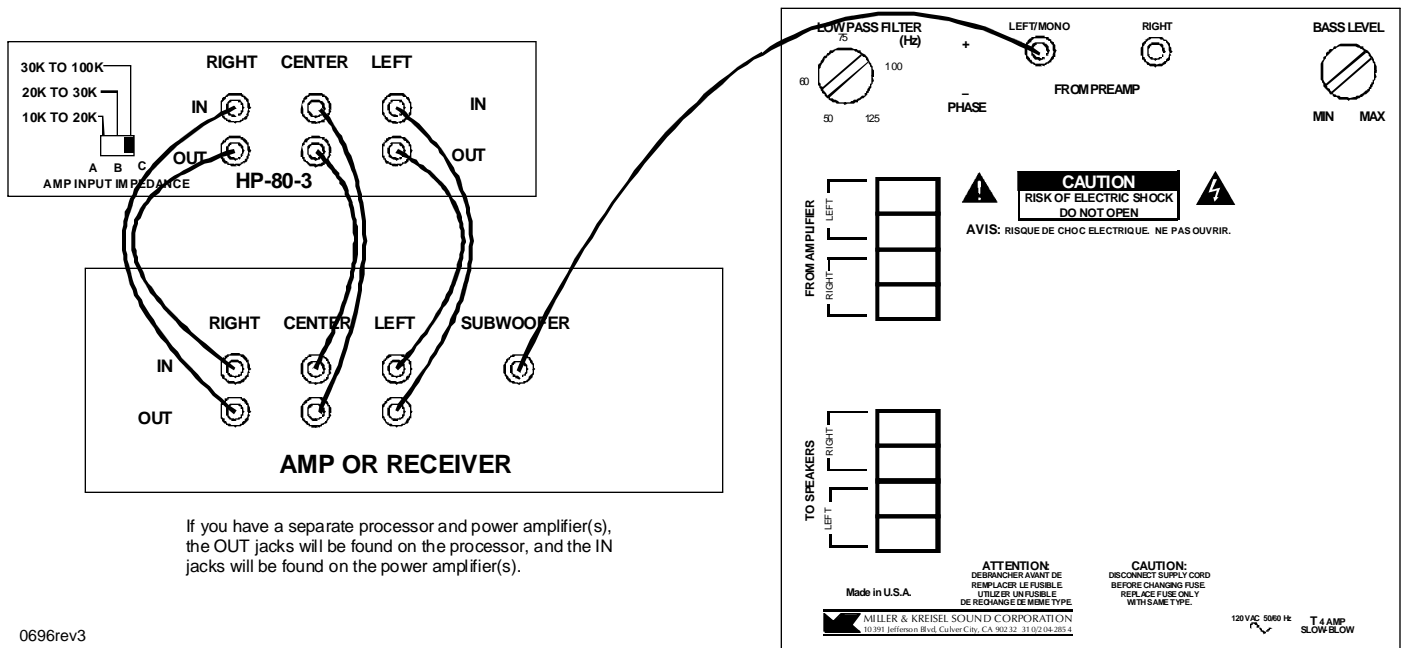
THE "LOW PASS FILTER" CONTROL ON THE SUBWOOFER

The "LOW PASS FILTER" adjustment on the back of your Subwoofer is also very important. As you adjust the "BASS LEVEL" control to match the Subwoofer and Satellite speakers, you also need to set the "LOW PASS FILTER" control to match the speakers. This control usually gives the best results when set at or somewhat below 80 Hz. For more detailed information, see your Subwoofer owner's manual.

As above, listen carefully and make adjustments when they seem necessary. Set the "LOW PASS FILTER" adjustment to where you hear the smoothest blend between the Satellite speakers and the Subwoofer.

If your M&K THX Subwoofer has a toggle switch under "LOW PASS FILTER", set it to the "24 dB/OCTAVE" position when using the HP-80. With M&K Satellites (and many other speakers) this forms a 4th order Linkwitz-Riley crossover between satellite and subwoofer and no other adjustment (except "BASS LEVEL") is necessary.

If you have any further questions about the use of your HP-80, please don't hesitate to call us for additional help.





HP-80-2 80 Hz 12 dB/OCTAVE PASSIVE HIGH-PASS FILTER - 2 CHANNEL VERSION

The M&K HP-80 gives you full bi-amplification with your M&K Powered Subwoofer, using passive circuitry to introduce virtually no noise or distortion. The matching low pass circuit is in the amplifier of your M&K Subwoofer. The HP-80 is an 80 Hz filter. Its response is -3 dB at 80 Hz.

LOCATION OF THE HP-80

The HP-80 can be placed near your other components. In some very rare instances, however, it may be sensitive to hum. If you hear system hum when using the HP-80, move the HP-80 away from your amp or receiver. It is probably picking up hum from a power transformer in the amplifier.

SETTING THE "AMP INPUT IMPEDANCE" SWITCH

On the HP-80 back panel is a three-position switch, marked A, B, and C. Set this switch to 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 use the C position. Consult your dealer or the amplifier's manufacturer if you can't find this spec. If you are unable to identify the impedance, set the switch to the C position.

	Optimized for	Use for input impedances
A position	10 Kohms	10K ohms to 19.9 Kohms
B position	22 Kohms	20K ohms to 29.9 Kohms
C position	47 Kohms	30K ohms and over

WIRING THE HP-80

IMPORTANT: Use a low capacitance interconnect cable between the HP-80 and your main amplifier. Use the shortest cable possible. The capacitance and length of the cable to the Subwoofer are not critical.

The HP-80 has three pairs of jacks. From left to right, they are: LEFT IN (top), LEFT OUT (bottom); SUB OUT (Left is the top jack and Right is the bottom jack); and RIGHT IN (top), and RIGHT OUT (bottom).

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 IN jacks on the HP-80. Run one side from the preamp Left MAIN output to the LEFT IN jack. Run the other side from the preamp Right MAIN output to the RIGHT IN jack.

2. Run a low capacitance stereo interconnect cable from the OUT jacks on the HP-80 to the power amplifier's INPUT (or integrated amp/receiver's MAIN or POWER AMP IN). Run one side between the LEFT OUT jack and the power amp's Left INPUT. Run the other side between the RIGHT OUT and the power amp's Right INPUT.

3. Run a stereo interconnect cable from the SUB OUT jacks on the HP-80 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. If you have two subwoofers, connect the Left subwoofer to the top jack and the Right subwoofer to the bottom jack.

WARNING: Do not use a Y-connector to combine the SUB OUT jacks on your HP-80. This will cause a loss of stereo in the left and right channels and may damage your equipment.

SETTING THE "BASS LEVEL" CONTROL ON THE SUBWOOFER

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