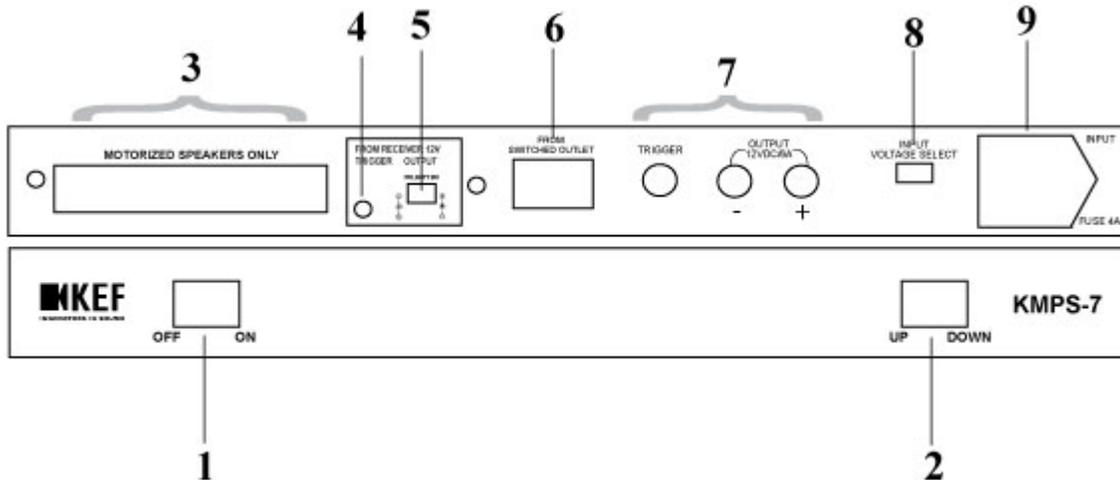


Thank you for selecting the KEF KMPS-7 Power Supply. The KMPS-7 is designed for a plug and play installation when used with KEF motorized custom installation speaker model Ci200.3Qt (and Ci3-80Qt in the near future). The KMPS-7 will also simplify the installation of all previous models and versions of KEF motorized speakers. The KMPS-7 may also be used to activate other devices in an installation, that utilize a standard 12VDC trigger such as TV lifts, drop down screens and motorized drapes and blinds.



What's in the box?

Please inspect the contents of the KMPS-7 carton carefully before installation. You will find the KMPS-7 Power Supply, The main power cord with a standard 3 prong connection at each end (much like a computer power cord), A secondary 2 prong line cord for use when selecting the **Switched Outlet Trigger Method** (See **Trigger Options** section), and an 1/8" (3 mm) male-to-male mono mini plug cable for use when selecting the **Receiver 12V Trigger Method** (See **Trigger Options** section), 4 Self Stick Rubber Feet and 2 rack adaptors with screws to attach them to the KMPS-7.

Placement

You can either sit the KMPS-7 on a shelf or use the Rack Adaptors to mount the unit to a standard rack system or within a piece of furniture with mounting rails. The body of the KMPS-7 is 17" wide to accommodate standard EIA rack systems. With the Rack Adaptors mounted to the unit, the total width is 19". If simply sitting the unit on a shelf, please attach the 4 Self Stick Rubber Feet to the four corners of the bottom of the unit. Do not place the KMPS-7 on other heat producing components since it may cause the unit to overheat.

For Rack Mounting the KMPS-7, attach the Rack Adaptors to the unit using the 8 screws included. You will need to furnish the Rack mounting screws for your particular rack or mounting rails. Do not mount the KMPS-7 directly above another heat producing component since it may result in overheating.

Front Panel Controls

- ❶ Main Power Switch – This switch is used to power the KMPS-7 on and off.
- ❷ Manual Activation Switch – This switch is used to activate and deactivate the motorized speaker connected to the KMPS-7. If no Trigger Option is used, this switch can be used to manually drop and raise the motorized speakers connected to it on demand. The switch can also be used to test the function of the speakers prior to completing the entire home theater installation and set up. When a regular trigger option is selected using one of the trigger connections on the rear panel, this switch should be kept in the "Up" position. The Manual Activation Switch will override any other trigger options selected. If the switch is left in the "Down" position it may give the impression that trigger method selected isn't working. Always keep this switch in the "Up" position when using any other trigger option.

Rear Panel Connections

Caution: Please make all trigger and speaker connections before connecting the KMPS-7 Mains Power cord to the wall outlet. Be sure that your home theater receiver is turned off.

⑤ Seven RJ-45 Female jacks for connecting KEF motorized speaker model Ci200.3Qt (and Ci3-80Qt in the near future) using standard CAT5 straight through cables. **Important Note:** These jacks are NOT to be used to make a connection to a computer network or directly to a computer despite similarity to those connections found on many of those devices. Although the jacks are designed to cause no harm to such devices, not all computer hardware implementations of the RJ-45 jack are correct and damage to the computer or network device may still occur.

The cables used to connect the motorized speaker to the KMPS-7 must be “straight through” standard CAT5 (or better) cables. These cables are NOT included with the KMPS-7 since the number of cables and length will vary for each installation. You may use either pre-terminated CAT5 cables available from your favorite technology retailer or you may make and terminate your own cables using CAT5 cable (or better) and modular ends (see diagram and table below).



RJ45 Pin Number	Wire Color for CAT5	KEF Speaker Use
1	White/Orange	N/A
2	Orange/White	N/A
3	White/Green	Trigger (Green on KEF motorized spkrs)
4	Blue/White	+12V (Red on KEF motorized spkrs)
5	White/Blue	+12V (Red on KEF motorized spkrs)
6	Green/White	N/A
7	White/Brown	Ground (Black on KEF motorized spkrs)
8	Brown/White	Ground (Black on KEF motorized spkrs)

Note: The brown/white and white/brown pair are used together for Ground (-) connections and the blue/white and white/blue pair are used together for the +12V connection to the KEF motorized speakers.

Up to seven motorized speakers can be connected to this set of jacks. Do not use splitters or home made “Y” connectors to connect more than seven speakers since the jacks and standard CAT5 wiring are not designed to handle the electrical requirements of more than one speaker on a single CAT5 wire. When designing your installation, you should use a home run of CAT5 for each motorized speaker being used.

You can use the power supply Binding Post Terminals ⑦ for connecting additional devices and speakers. Please see the appropriate **Binding Post Terminal** section of this manual for additional information.

Trigger Options

There are two different trigger options that may be selected to allow an automated drop down of the KEF motorized speaker models and any other 12VDC triggered devices connected to the KMPS-7. The first option takes advantage of a 12VDC trigger jack available on many modern home theater receivers. When available on a home theater receiver, this jack is a 1/8” (3 mm) female type that will accept one end of the 1/8” (3 mm) male-to-male cable included with the KMPS-7. When this jack is available it should be labeled “Trigger” on the home theater receiver.

Important Note: Some receivers have similar jacks which are labeled “IR In” or “IR Out”. Do NOT use these for the 12VDC trigger option as damage to the receiver may occur. There are some home theater receivers that provide a “Trigger” jack that is only available for Zone 2 use. These jacks may not provide the needed trigger for proper operation of the KMPS-7.

If a proper “Trigger” jack can not be located on the home theater receiver, use the second trigger option which uses the “Switched Outlet” that exists on virtually all receivers. The Switched Outlets on such receivers are energized when the receiver itself is switched ON and de-energized when the receiver is switched OFF. This method of triggering will cause the KEF motorized speakers to activate when the receiver is turned ON and return to their up position when the receiver is turned OFF. See the connections below for further details.

Important Note: Please make only one connection to the trigger option jacks ④ or ⑥, but not both. Only one trigger method can be used at a time. If you’re not sure of whether you have a proper “Trigger” jack on your receiver, please use the Switched Outlet trigger ⑥ only.

④ & ⑤ Receiver 12VDC Trigger Option

When you have selected the Receiver 12VDC Trigger option, connect one end of the 1/8” (3mm) male-to-male mono cable to the jack ④ on the rear panel of the KMPS-7. Connect the other end to the jack on the home theater receiver labeled “Trigger” or “12VDC Trigger”. When this method is used, **DO NOT** connect anything to the “From Switched Outlet” trigger jack ⑥ on the rear panel of the KMPS-7. The switch ⑤ next to the “From 12V Trigger Output” jack ④ is used to allow connection to receivers that use an unconventional polarity of the trigger output voltage the receiver supplies. Most receivers will use a positive (+) tip and negative (-) ring polarity which would require the switch to be in the RIGHT most position. This is the default setting when the KMPS-7 leaves the factory.

Important Note: When using the 12VDC Trigger option, the voltage supplied to all triggers available on the KMPS-7 comes from the receiver “Trigger” jack. This voltage is frequently current limited on most receivers to 25mA (although some newer units provide up to 50mA). The KEF motorized models require very little trigger current (less than 3mA on all current models) which means that even with 7 speakers connected to all of the jacks ⑤ on the KMPS-7, the total current will stay below the maximum of 25mA available on many receivers. If you wish to use other devices with the KMPS-7, please check with the manufacturer of those devices to be sure that the trigger current requirements don’t cause the total to exceed that supplied by the receiver. If you’re not sure about these requirements, please use the Switched Outlet Trigger option which will draw its trigger current from the KMPS-7 itself and is limited only by the total current capabilities of the KMPS-7 (which is 6Amps).

If the receiver that you’re using uses the unconventional polarity of negative (-) tip and positive (+), please move this switch ⑤ to the left most position for negative tip and positive ring.

Important Note: Please use a volt meter or check with the manufacturer of your receiver to determine the polarity of this trigger connection. Incorrect polarity of this connection will prevent proper operation of the KMPS-7 and may cause damage to the receiver or the KMPS-7.

Important Info: Some receivers allow you to “map” whether the trigger jack on the rear panel of the receiver activates on any given input selected on the receiver. One major brand, as a default, only activates the trigger jack on the rear panel when a Video source is selected, such as TV or DVD. Be sure that you have a video source, like DVD, selected when testing your installation. If the CD input is chosen, you may believe that a problem exists with the power supply when in fact it is simply because the “Trigger” jack is not being activated on the receiver. When this feature is available, it is almost always something that can be changed to work the way you want it to from the menu system of the receiver. Please check the owner’s manual of the receiver to determine how yours works.

⑥ Switched Outlet Trigger Option

When you have selected the Switched Outlet Trigger option, connect the included 2 prong AC line cord to the jack ⑥ on the rear panel of the KMPS-7 and the other end to the “Switched AC Outlet” on your receiver (these AC outlets on the rear panel of the home theater receiver are sometimes simply labeled “SW” and “UnSW” – in this case used the one labeled “SW”). If this trigger option is selected, DO NOT connect anything to the Receiver 12V Trigger jack ④ on the KMPS-7. **Important Note: If you plug the 2 prong cable into the Unswitched outlet available on some receivers the trigger will be activated all the time and the speakers will not go up. Please be sure to use only a connection to the Switched outlet of the receiver.**

Extra Power and Trigger Output Connections

⑦ The three binding posts available on the rear of the KMPS-7 can be used for older KEF motorized speakers without the RJ-45 jacks on them or models like the Ci-FDT dipole surround motorized KEF model. For your convenience, the color code of these binding posts matches the wiring color code on the older KEF models. These connections can also be used for other devices that may require a 12VDC power supply and trigger such as TV lifts and motorized screens, blinds and drapes. The Red and Black binding posts provide a continuous 12VDC which is always on when the KMPS-7 Power Switch ① is “On”. Red is Positive (+) and Black is Negative (-). The total current capacity of the KMPS-7 is 6 Amps. The Green Trigger binding post will provide a continuous 12VDC trigger voltage whenever either the trigger jack on the receiver is active or the switched outlet on the receiver is ON, depending on the trigger option being used. The Green binding post is the Positive (+) of the trigger voltage, the Black binding post is the Negative (-). The Black binding post is a shared ground for both the continuous power and the trigger.

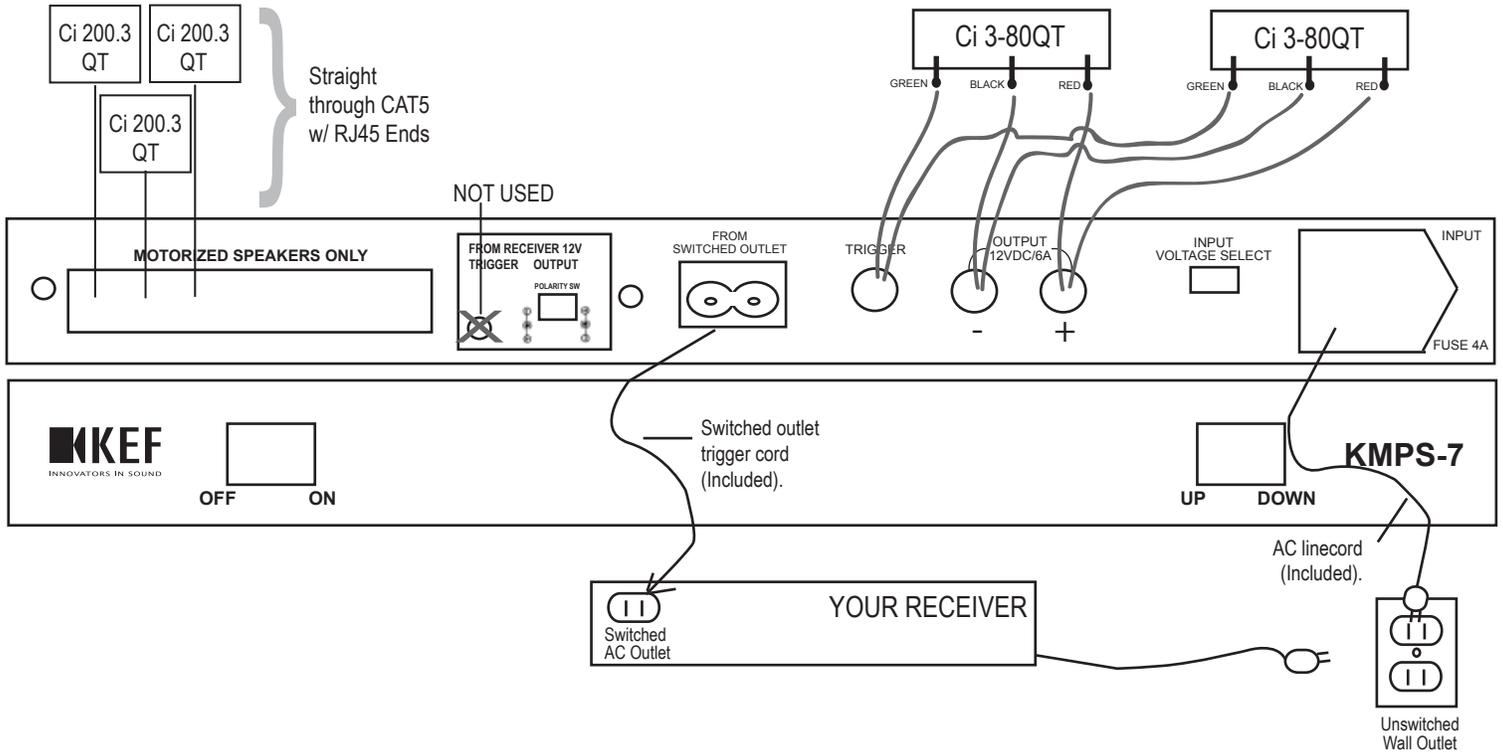
Mains Voltage Selection and Power Cord Connections

⑧ This switch is used to select the AC Input Voltage for the Main Connection Only. It is set to 115VAC at the factory. The unit can be used on 230VAC by moving the switch to the 230V position. **The voltage selector is only for the purpose of changing the Mains voltage on the KMPS-7. Should this unit be used on a 230VAC circuit, you must use a small conversion transformer to “step down” the voltage from a Switched Outlet on a receiver designed for use on 230VAC and providing 230VAC at the switched outlet on the rear panel of the receiver. The step down transformer must change the switched outlet voltage from 230VAC to 115VAC before being connected to the two prong “From Switched Outlet” jack ⑥ on the KMPS-7. It is highly recommended that you use the Receiver 12VDC Trigger option when using the KMPS-7 with 230VAC mains. Please call 732-683-2356 for further guidance with this feature. Please note that the Mains fuse in jack ⑨ must be changed from a 4Amp to a 2Amp fuse if the voltage selector is changed to 230VAC.**

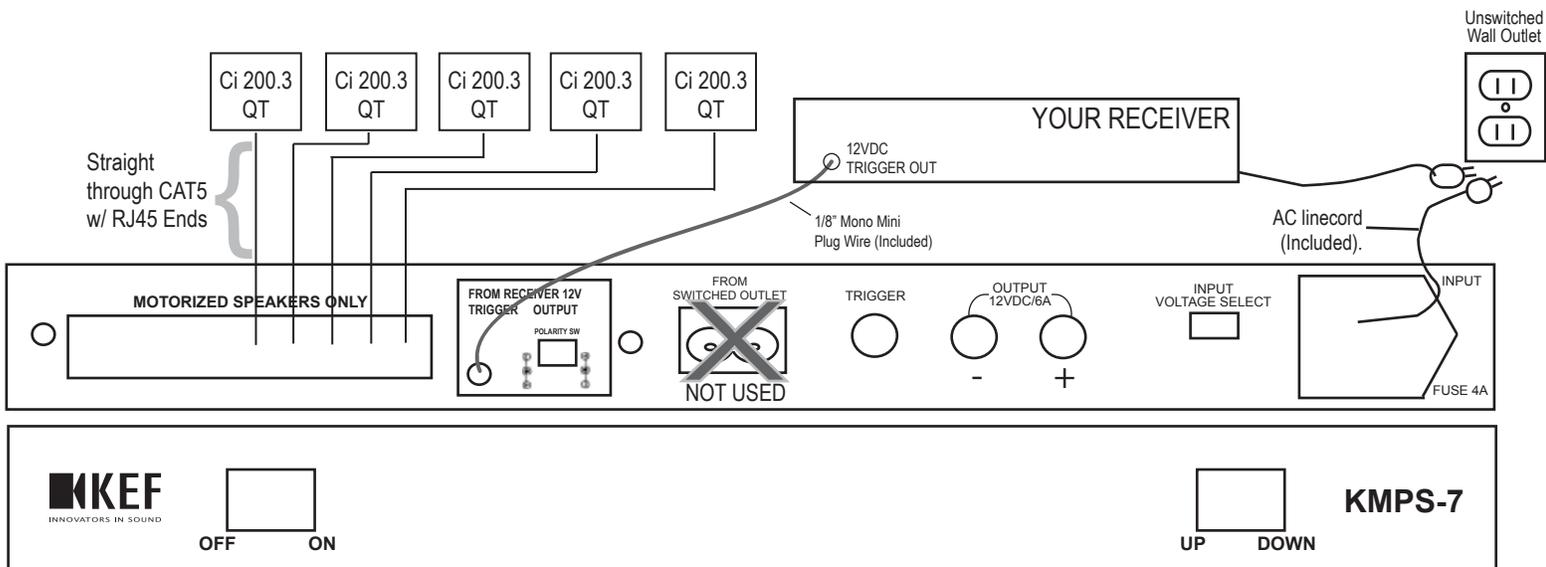
⑨ Connect the main 3 prong power cord included with the KMPS-7 to this jack. The jack provides an integrated fuse to protect the KMPS-7 from damage caused by over current situations. If the fuse opens and the unit does not appear to operate, please replace it with an identical fuse of 4 Amps. If the fuse blows immediately, please disconnect the main 3 prong power cord and all other connections from the KMPS-7 and stop using it. Call our Service Department at 732-683-2356 to arrange for an evaluation and service of the unit. DO NOT use a fuse rated higher than 4Amps and do not use SLO-BLO fuses with this power supply.

Preferred Triggering Method

for mix of Ci200.3QT w/ legacy products
(Ci3-80QT, CiFDT, or Ci200.2QT)



12VDC Trigger Diagram



Switched Outlet Trigger Diagram

