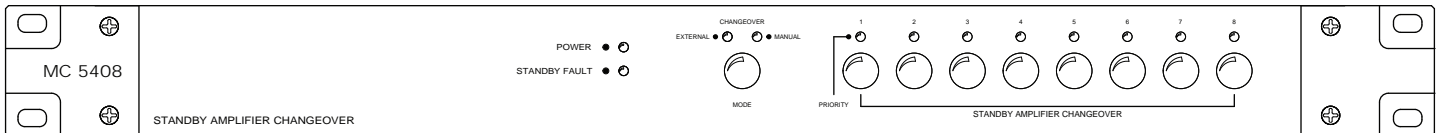


MC5408

Standby Amplifier Changeover unit



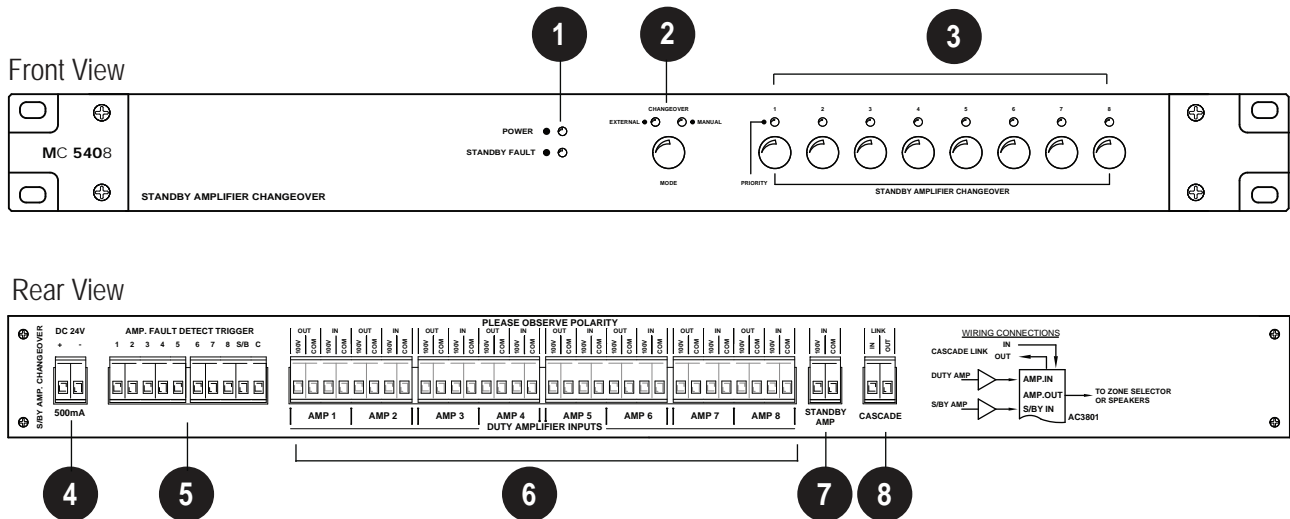
Thank you *for choosing another quality product from Unique Amp Sdn Bhd.*

MC5408 is an innovative product, integrating previous models of AX7000 and AC3601 in a box. Thereby it can be used as a manual standby amplifier changeover or as semi auto unit which shall be used with amplifiers with auto fault sensors. In the latter mode, the unit can be changed to manual mode, simply by changing the front mode switch.

MC5408 comes with 8 inputs for duty amplifiers with single standby power pack. Cascade is possible to enable each standby amplifier to cater for more than 8 duty units with simple link cable.

With our continuous product improvement policy, we are simply building more efficient and reliable tool for ever increasing demanding needs of today's PA installations. Installing MC5408 to your system, it's definitely a plus tool of performance and reliability at a fraction of cost as compared to similar equipment in its class.

Parts Identifications



1. LED INDICATORS

LED Indicator for power and standby fault.

2. CHANGEOVER MODE BUTTON

Mode button to select manual operation or remote trigger changeover.

3. CONTROL BUTTON

Each switch represents a duty amplifier (amp 1 to amp 8) respectively. Selecting any switch would lit up the LED indicating that particular duty amplifier has been switched and the standby unit has taken over its role as duty unit.

If more than one switches is pressed, the amplifier with lower number of assignment would have priority over the higher one, thus preventing overloading of the standby pack. It is recommended that only one switch is pressed at any one time. (Priority 1 : highest)

4. DC SUPPLY INPUT

It is recommended that DC 24V supply with regulated output is connected to the unit. ie. Kodio PS5424 24V regulated DC power supply pack.

5. AMP. FAULT DETECT TRIGGER

Amplifiers with fault sensors. eg QP2000 series has fault contacts, which shall be connected to this port.

6. DUTY AMPLIFIER INPUT / OUTPUT TERMINALS

Outputs of amplifiers 1 to 8 is connected here and subsequently to other equipments such as speaker zone selector. Please refer to "Connecting The Unit" for proper instruction.

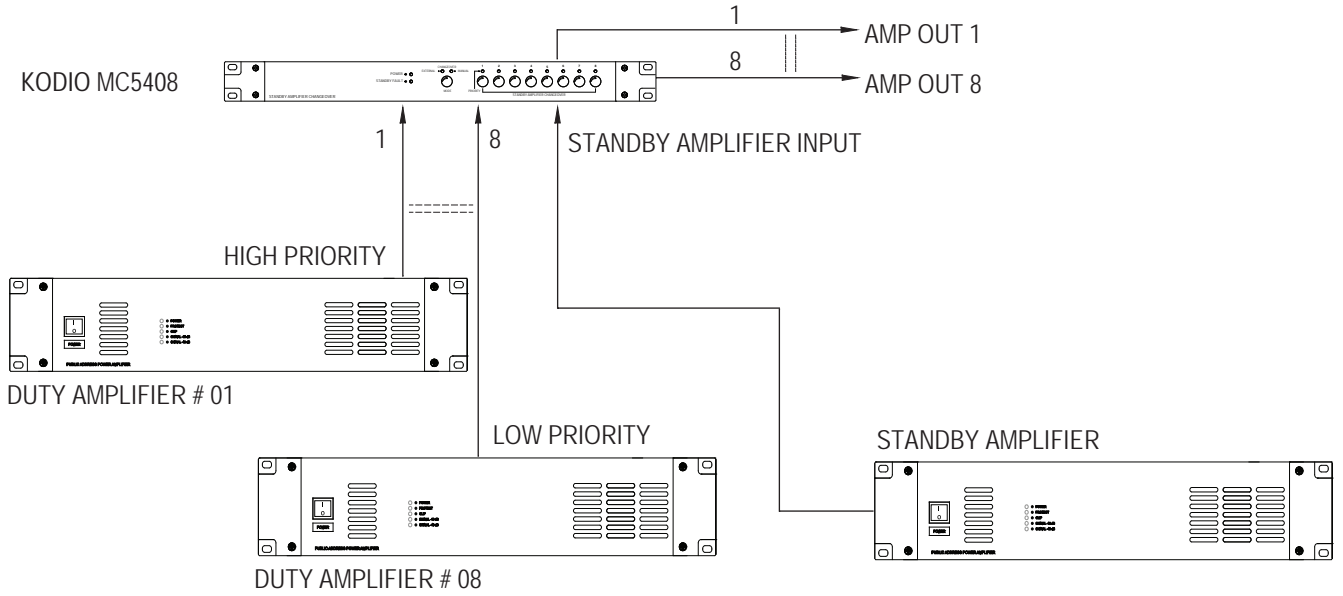
7. STANDBY AMPLIFIER INPUT TERMINALS

Use this port to connect to the outputs of the standby amplifier. Please ensure correct polarity in termination.

8. CASCADE LINK TERMINALS

If 2 or more MC5408 are to be installed, link each of the units via this terminal. Kindly follow the arrow as indicated for linkage.

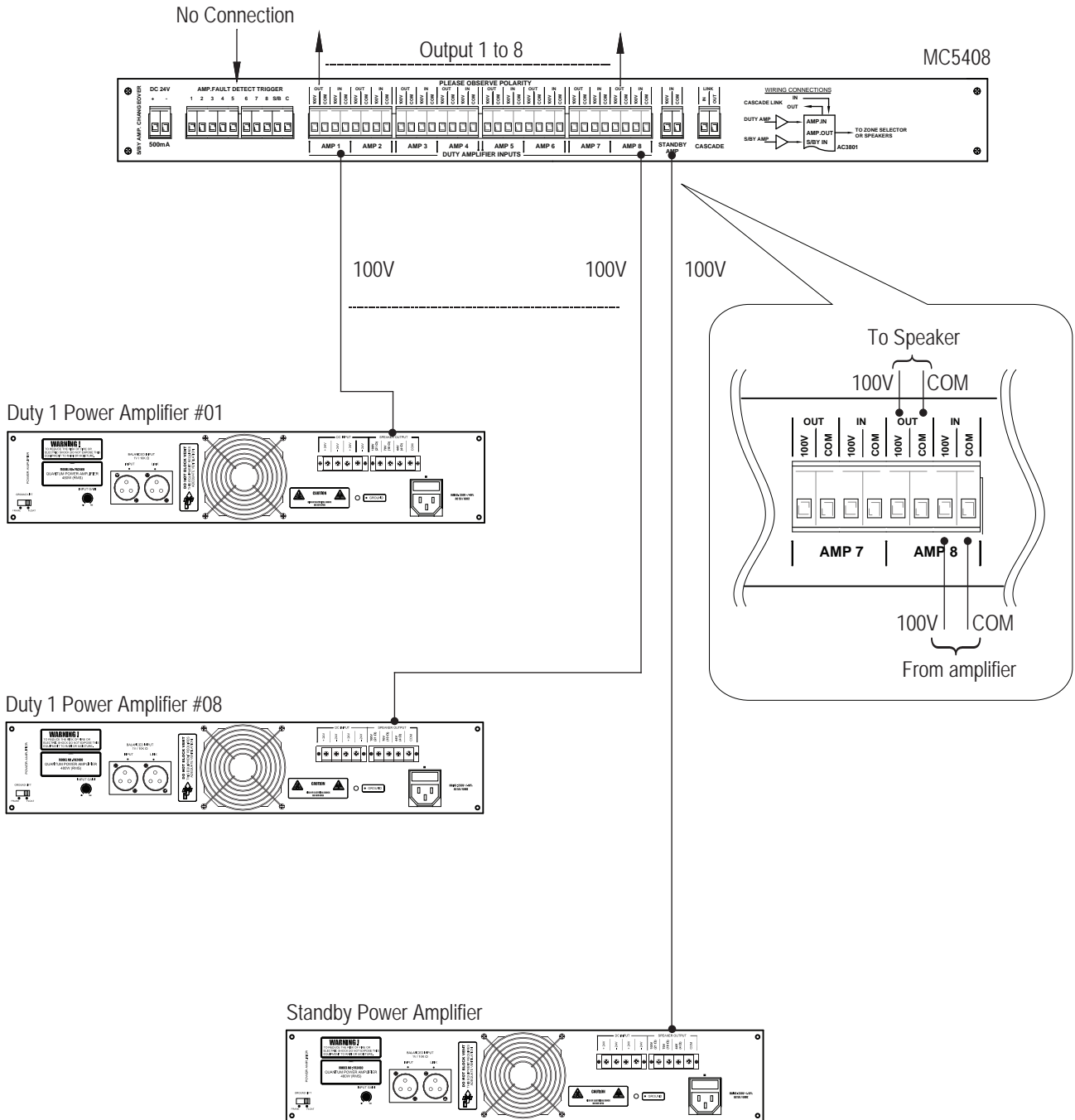
Schematic - Manual Amplifier Fault Changeover



The duty amplifier #01 connected to input 1 of MC5408 shall have highest priority for standby takeover.

Connecting The Unit: Manual Mode

The below diagram is suitable for amplifier without auto fault detection circuit and only requires manual changeover during fault.

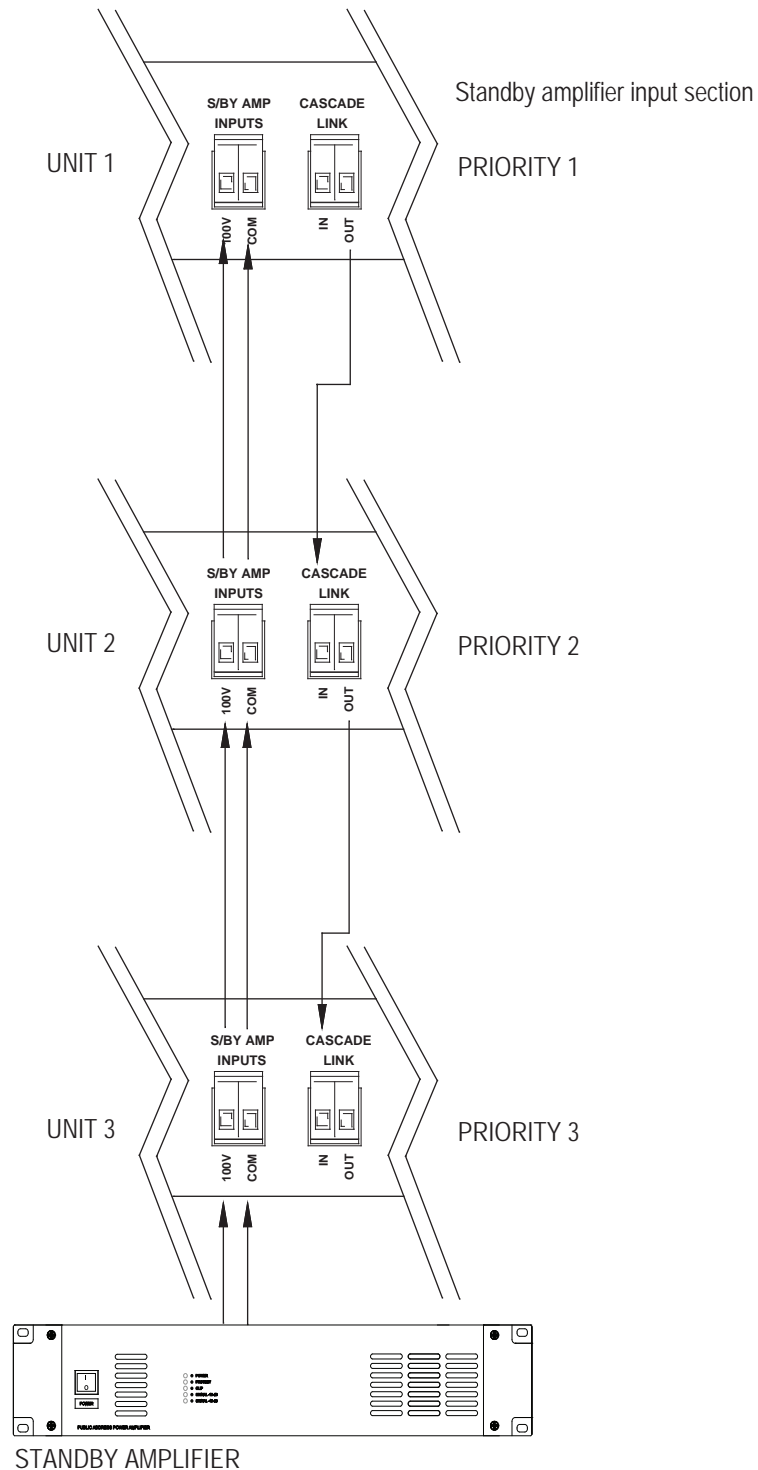


Multiple Unit Installation (Cascade)

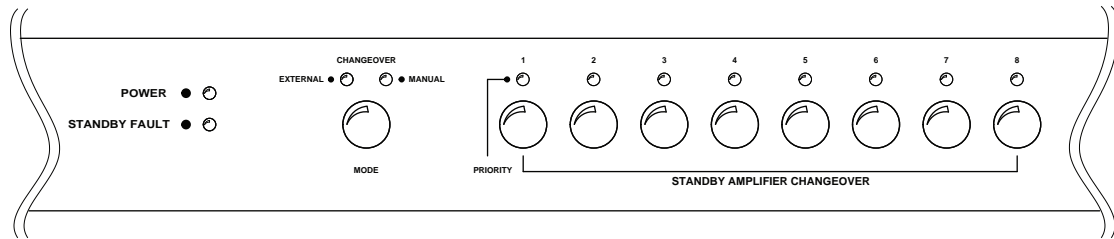
MULTIPLE UNIT INSTALLATION

Whenever a standby amplifier is required to serve more than 8 duty units, cascade the MC5408 with the configuration as shown. The number of cascade is unlimited, but for an effective system, we would recommend that maximum cascade should be 3.

The highest priority would be the first unit of MC5408 at channel input 1. Thereby this duty amplifier would have higher chance of changeover in the queue.



Operating The Unit



Manual Mode:

- 1) Press the mode button with 'MANUAL' LED lit.
- 2) Determine which amplifier is faulty and press the assigned channel for standby takeover.

External Mode:

Use this mode only if amplifiers with auto fault sensors are used.

- 1) Select the 'EXTERNAL' mode via mode button
- 2) Changeover would take place automatically if duty unit is faulty and shall be indicated by the respective LED.

Technical Specifications

Operating voltage	24V DC ; 0.2A
Power consumption	Standby: 82mW, 3.4 mA Operating: 1.3W, 50 mA
Zone load rating	500W / 100V line input (max)
No of amplifier inputs	8 duty, 1 standby
Changeover indication	Front panel LED for duty amplifier being Changeover
Switching mode	Via front panel switches (manual mode) Remote trigger (auto mode)
Cable connections	Plug in detachable connectors with screw
Cascade capacity	Unlimited (Recommended 3)
Cable size	Up to 2.5 mm sq
Dimension (WxHxD)	482 x 44 x 180 mm
Weight	2 kg
Colour	Black, powder epoxy coated

Note:

The above specifications are correct at time of printing but subjected to changes without prior notice due to product improvements.