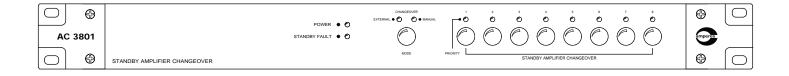




AC3801 Standby Amplifier Changeover unit



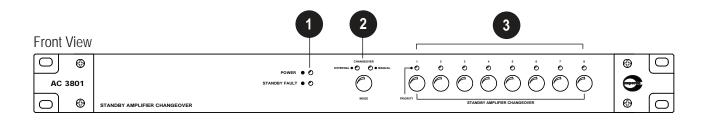
Thank you for choosing another quality product from Amperes Electronics.

AC3801 is an innovative product, integrating previous models of AX700 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.

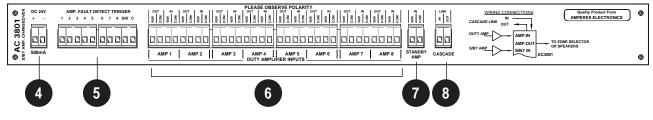
AC3801 comes with 8 inputs for duty amplifiers with single standby power pack. Cascade is possible to enable each standby amplifier to cater for more than 8 duty units with simple link cable.

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 AC3801 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



Rear View



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. Amperes PS9400 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.

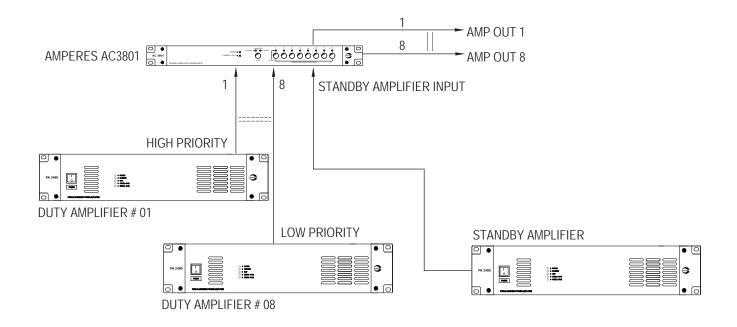
7. STANDBY AMPLIFIER INPUT TERMINALS

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 AC3801 are to be installed, link each of the units via this terminal. Kindly follow the arrow as indicated for linkage.

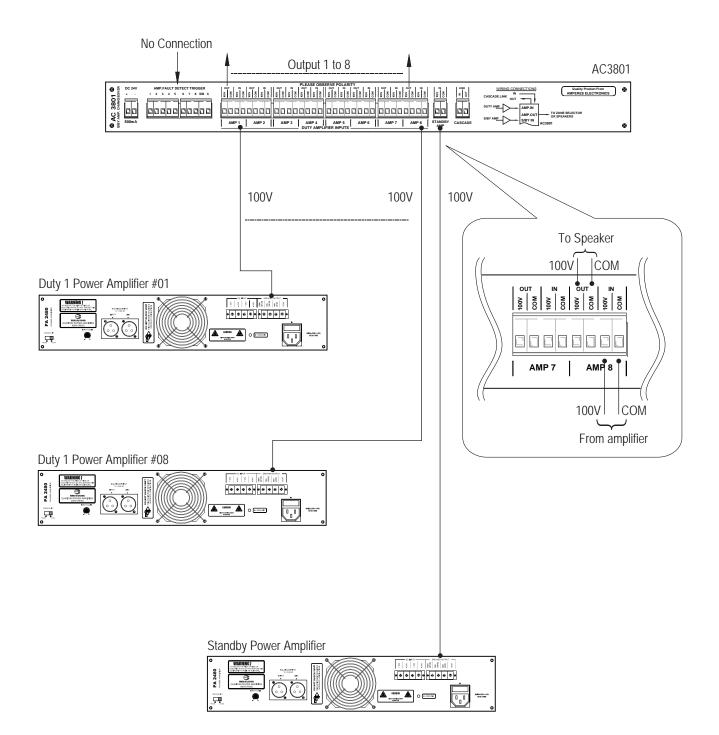
Schematic - Manual Amplifier Fault Changeover



The duty amplifier #01 connected to input 1 of AC3801 shall have highest priority for standby takeover.

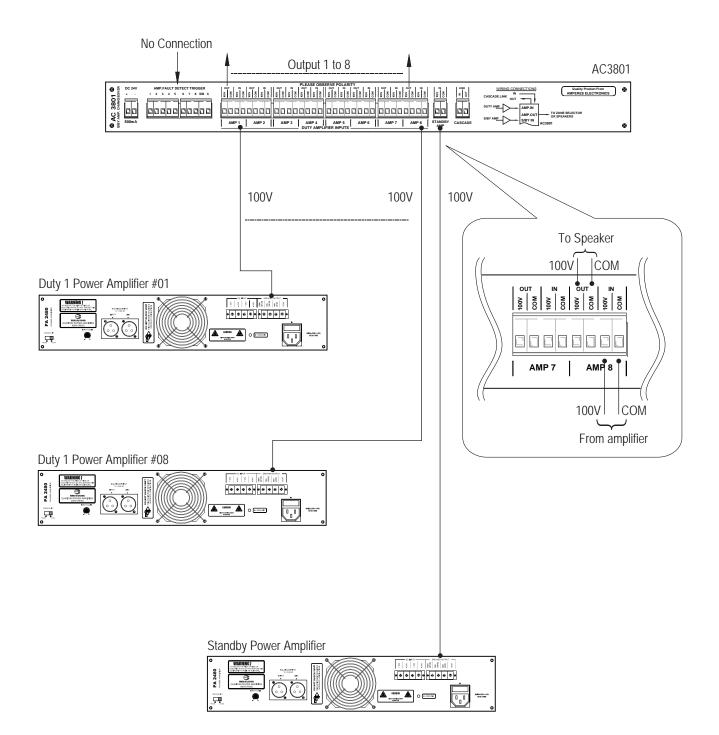
Connecting The Unit: Manual Mode

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



Connecting The Unit: Manual Mode

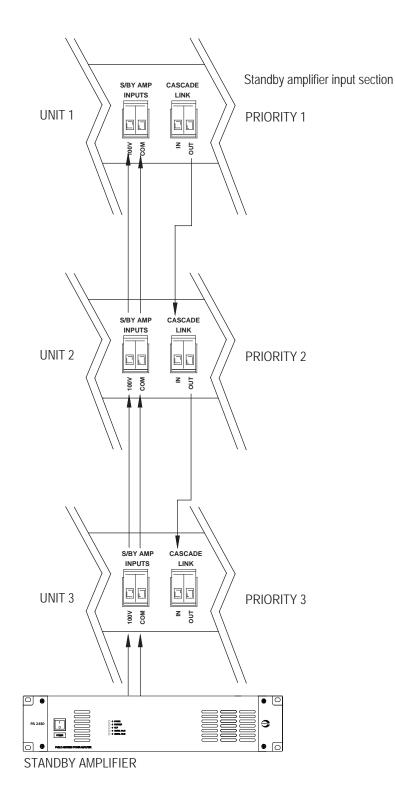
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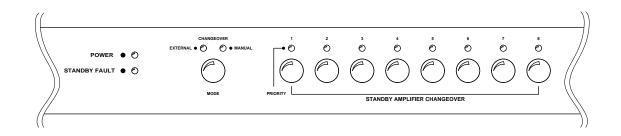
MULTIPLE UNIT INSTALLATION

Whenever a standby amplifier is required to serve more than 8 duty units, cascade the AC3801 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 AC3801 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 lits.

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.

Warranty Conditions

Only Amperes Electronics Service Centres are allowed to make warranty repairs : a list of Amperes Electronics Service Centres may be asked for by the purchaser or send directly to Amperes Electronics Sdn Bhd at 70 Jalan Industri PBP 3, Tmn Perindustrian Pusat Bandar Puchong, 47100, Puchong, Selangor, Malaysia or its authorized dealers. This warranty is not valid if repairs are performed by unauthorized personnel or service centres.

This warranty covers only repairs and replacement of defective parts ; cost and risks of transportation as well as removal and installation of the product from the main system are for the account of the purchaser. This warranty shall not extend to the replacement of the unit.

This warranty does not cover damages caused by misuse, neglect, accident of the product as well as using the product with power supply voltage other than shown on the product, or any other power supply source / adaptor not recommended by the manufacturer.

This warranty does not cover damages caused by fire, earthquakes, floods, lightning and every cause not directly related to the unit.

This warranty does not include any indemnity in favor of the purchaser or the dealer for the period out of use of the unit; moreover the warranty does not cover any damages which may be caused to people and things when using the product.

This warranty certificate is valid only for the described product, and is not valid if modifications are made on this certificate or on the identification label applied on the product.

This warranty covers all the material and manufacturing defects and is valid for a period of 36 months from the date of purchase or for a specified period in countries where this is stated by a national law. In this case, the extension is valid only in the country where the product is purchased.

Amperes Electronics Sdn Bhd is not obliged to modify previously manufactured products under warranty if the design changes or improvements are made.

Disclaimer

Information contained in this manual is subject to change without prior notice and does not represent a commitment on the part of the vendor. AMPERES ELECTRONICS SDN BHD shall not be liable for any loss or damages whatsoever arising from the use of information or any error contained in this manual.

It is recommended that all services and repairs on this product be carried out by AMPERES ELECTRONICS SDN BHD or its authorized service agents.

AMPERES series must only be used for the purpose they were intended by the manufacturer and in conjunction with this operating manual.

AMPERES ELECTRONICS SDN BHD cannot accept any liability whatsoever for any loss or damages caused by service, maintenance or repair by unauthorized personnel, or by use other than that intended by the manufacturer.



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