







CP52a 500 Series Compressor

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IMPORTANT SAFETY INSTRUCTIONS

 CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED PERSONNEL ATTENTION: POUR EVITER LES RISQUES DE CHOC ELECTRIQUE: NE PAS ENLEVER LE COUVERCLE. AUCUN ENTRETIEN DE PIECES INTERIEURES PAR L'USAGER. CONFIER L'ENTRETIEN AU PERSONNEL QUALIFIE. AVIS: POUR EVITER LES RISQUES D'INCENDIE OU D'ELECTROCUTION, N'EXPOSEZ PAS CET ARTICLE A LA PLUIE OU A L'HUMIDITE	  	<p>The lightning flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure, that may be of sufficient magnitude to electric shock to persons. Le symbol clair avec point de flèche à l'intérieur d'un triangle équilatéral est utilisé pour alerter l'utilisateur de la présence à l'intérieur du coffret de voltage dangereux non isolé d'ampleur suffisante.</p> <p>The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance. Le point d'exclamation à l'intérieur d'un triangle équilatéral est employé pour alerter les utilisateurs de la présence d'instructions importantes pour le fonctionnement et l'entretien (service) dans le livret d'instruction accompagnant l'appareil.</p>
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1. Read this manual thoroughly before using this unit.
2. Keep this manual for future reference.
3. Take notice of and comply with all warnings included in the user's manual or indicated on the appliance.
4. Follow all instructions included in this manual.
5. Do not expose this unit to rain or moisture. Avoid having water or other liquids spilled on this unit.
6. When cleaning the cabinet or other parts of this appliance, use only a dry or slightly damp soft cloth.
7. Do not block any ventilation openings or interfere with the proper ventilation of this unit. Install in accordance with the manufacturer's instructions.
8. Do not use or store near any heat sources such as radiators, heat registers, stoves, or other heat-producing appliances.
9. Do not interfere with the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. These are designated for your safety. If the provided plug does not fit into your outlet, consult an electrician.
10. Protect the power cord from being walked on or otherwise damaged by items placed on or against them. Particular attention should be given to the plugs, receptacles, and the point where the cord exits the appliance.
11. To avoid the risk of electrical shock, do not touch any exposed wiring while the unit is in operation.
12. Only use attachments/accessories specified by the manufacturer.
13. Unplug this unit and all connected electrical equipment during lightning storms or when left unused a long period of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the appliance has been damaged in any way or fails to operate normally.

WARNING: To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture

UNPACKING AND INSPECTION

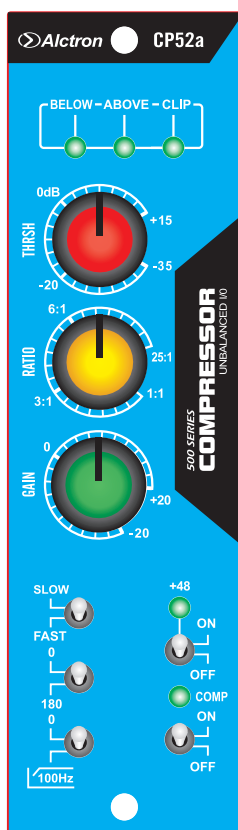
Carefully unpack your CP52a compressor. Do not discard any packing materials! If anything is missing or damaged, contact your dealer or Alctron immediately.

Items included with the CP540a are:

- CP52a compressor
- Set of instructions

The CP52a is a compressor of exceptional sonic clarity and rugged construction. When used in accordance with the guidelines in this manual it will give you many years of outstanding performance.

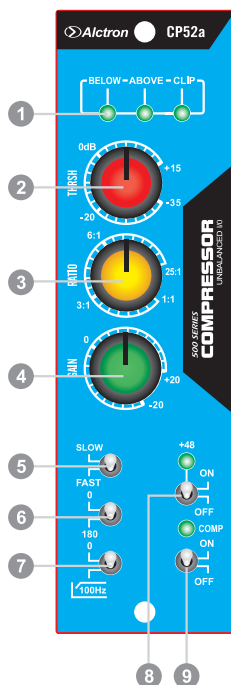
3. GENERAL DESCRIPTION



The CP52a is a 500 series module with a fully variable, full function compressor. One merely connects the microphone, sets the input level, and then the compression for instant results. This compact all-in-one module is particularly beneficial for high density setups such as live recording where you want to capture the natural sound of the instrument while ensuring it does not go into the red. Those equipped with a rack power supplier can use the omni port to access the preamp and compressor separately using them as two separate modules.

- * Four selectable inputs with trim adjustment.
- * Straight wire distortion-free signal path.
- * A great-sounding compressor in a single wide 500 Series module.
- * Accustate gain control for low noise.
- * Full function compressor for dynamic control.
- * Each processor may be accessed separately.

FRONT PANEL



1. Input Meter-3 segment LED lights, indicating the input level. When the CLIP indicator is flashing, it shows that the signal is overload distortion, please reduce the input level till the overload indicator stops flashing..

2. Threshold: This rotary pot control is used to adjust the audio level point at which the compressor begins working. The range is from -20 dB to +20 dB.

3. Ratio: This four position, switched control is used to adjust the ratio of the dynamic content of the original signal to the compressed signal. For example if the original signal had a peak level of 4 dB and the ratio control was selected to 4:1, the output signal would still maintain the dynamic change as in the original audio signal, but it would only have a peak level increase of 1 dB. The ratio settings are 1.5:1, 2:1, 4:1 and 10:1.

4. Output:

This rotary pot control is used to adjust the audio level at the output of the compressor. It has up to 20 dB gain, which can be used to raise the level of the compressed audio signal back to nominal levels.

5. Slow-Fast: Sets the speed at which the compressor will take effect. Set to slow, the initial transient such as a snap from a snare will pass without compression.

6. 180° REVERSE: Inverts the polarity to help phase align two microphones when recording in stereo.

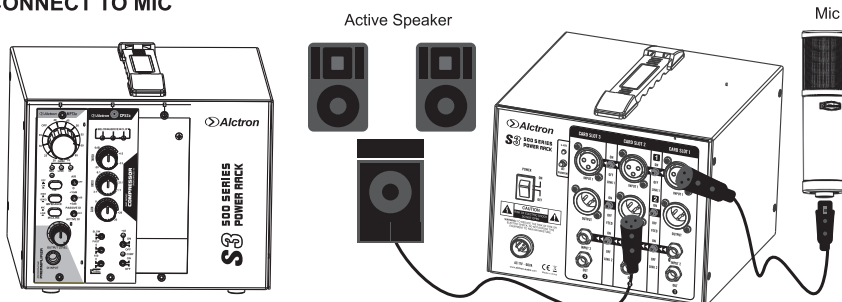
7. HIGH-PASS FILTER: Gently rolls-off low frequencies below 100Hz to reduce rumble which can muddy up a recording.

8. 48V Switch - phantom power switch for mic inputs.

9. Comp: This switch allows the user to hear the processed signal or the unprocessed signal with the flip of a switch. When the switch is in the upper position the red LED is illuminated, indicating that the unit is in the circuit.

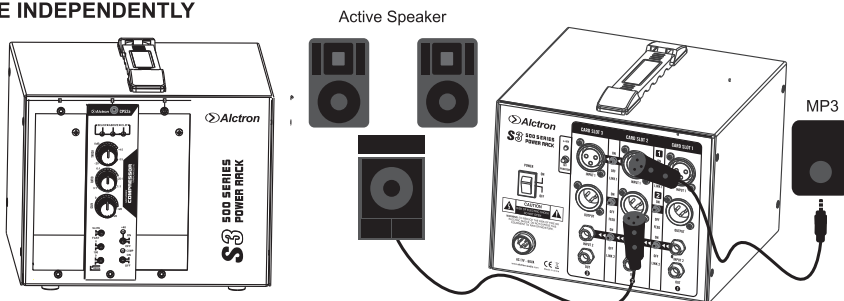
CONNECTION OF CP52A

CONNECT TO MIC



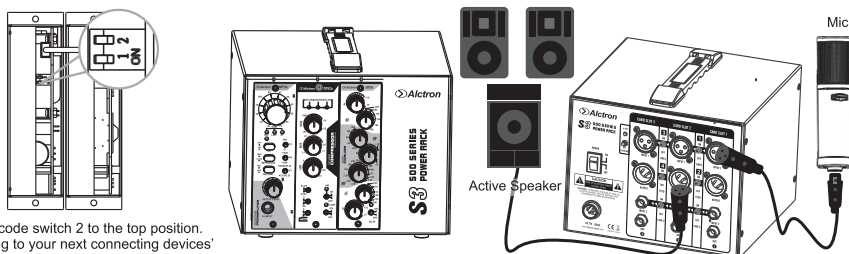
1. Insert MP73a into CARD SLOT1 and insert CP52a into CARD SLOT2;
2. Use a 3-pin cable to connect mic and CARD SLOT1 INPUT connector on S3's rear panel;
3. Use a 3-pin cable to connect power amp or active speaker and CARD SLOT2 INPUT connector on S3's rear panel;
4. Dial the switch1 to OFF position, dial switch2 to ON position;
5. Plug the S3's adaptor and dial S3's POWER to ON position.

USE INDEPENDENTLY



1. Insert MP73a into CARD SLOT1 and insert CP52a into CARD SLOT2;
2. Use a 3-pin cable to connect MP3/PC and CARD SLOT2 INPUT connector on S3's rear panel;
3. Use a 3-pin cable to connect power amp or active speaker and CARD SLOT2 INPUT connector on S3's rear panel;
4. Plug the S3's adaptor and dial S3's POWER to ON position.

MP73A, CP52A AND EQ73A USE TOGETHER



Dial the code switch 2 to the top position. According to your next connecting devices' impedance needing to decide whether to turn on or off code switch 1. (600Ω/10k)

1. Use a 2-pin shielded cable to connect MP73a and EQ73a, only in this situation can EQ73a work in a normal way;
2. Insert MP73a into CARD SLOT1, insert CP52a into CARD SLOT2 and insert EQ73a into CARD SLOT3;
3. Use a 3-pin cable to connect mic and CARD SLOT1 INPUT connector on S3's rear panel;
4. Use a 3-pin cable to connect power amp or active speaker and CARD SLOT2 INPUT connector on S3's rear panel;
5. Dial the switch1/3/4 to OFF position, dial the switch2 to ON position;
6. Turn on ON/OFF switch on EQ73a's panel;
7. Plug the S3's adaptor and dial S3's POWER to ON position.

NOTE: when mic need 48V phantom to offer power you should turn on 48V phantom on S3 and MP73a at the same time.

AUDIO CONNECTION

Balanced use with XLR connectors



input

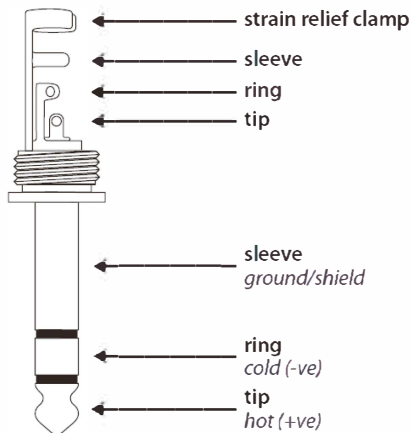
1 = ground/shield
2 = hot (+ve)
3 = cold (-ve)



output

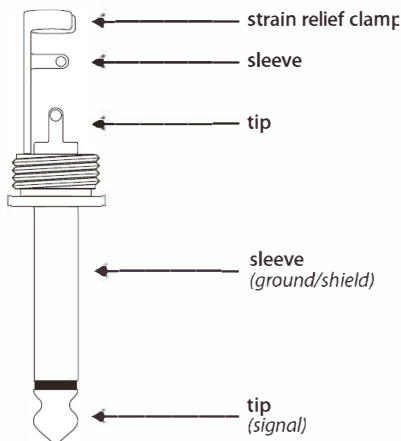
For unbalanced use,
pin 1 and pin 3
have to be bridged

Balanced 1/4" TRS connector



For connection of balanced and unbalanced plugs,
ring and sleeve have to be bridged at the stereo plug.

Unbalanced 1/4" TS connector



SERVICE

If your CP52a needs servicing, follow these instructions.

1. Ensure the problem is not related to operation error or external system devices.
2. Keep this owner's manual. We don't need it to repair the unit.
3. Pack the unit in its original packaging including end card and box. This is very important. If you have lost the packaging, please make sure you have packed the unit properly. ALCTRON is not responsible for any damage that occurs due to non-factory packing.
4. Ship to the ALCTRON tech support center or the local return authorization.