

NEW YORK AUDIO LABORATORIES, INC.

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Purchasing audio equipment is often a dismal process that is filled with anguish and disappointment. Your purchase of a MOSCODE TUBE AMPLIFIER shall be remembered as a shining moment of good audio judgement. The very fact that you are about to unpack your new purchase means that you have reached a level of listening sensitivity and sophistication. Therefore, being a person of refinement, we shall treat you as such. We hope these instructions will be helpful.

PREPARATION

Before you unpack your amplifier it is important that we first prepare you-the listener. We don't want you to rush to unpack your amplifier and in great haste listen to it. Quite to the contrary, you must be carefully prepared *before* you listen to your MOSCODE TUBE AMPLIFIER for the first time.

STEP I

Take a bath, one of the appropriate temperature and most assuredly with the proper pine salts and a smidgen of DEAD SEA salts. It is important to have a bottle of absolutely ice cold pure spring water (with a permissible slice of lemon). Under no circumstances should wine or champagne be imbibed while in a hot tub. It is also necessary to have some candlelight at this time. Never, use incandescent or fluorescent light nor sit in darkness. Please do NOT ask your girlfriend, lover or wife to enter the tub with you, because this will distract you.

STEP II

Take an ice cold shower. The colder the better. You know it is very cold when it feels like your private parts have jumped up into your lower throat for protection.

STEP III

Lie down on your private message table and get your customary massage. It doesn't matter whether it is a Shiatsu or Swedish massage, because the only thing that matters is that any tightness in your muscles is relieved. Take special care of upper back, and neck and facial muscles, because they are very significant to the hearing process.

STEP IV

Take a medium warm shower to remove all the rare scented oils from your body so that you can feel comfortable about putting on

STEP V

Your silk robe. I usually wear a beautiful silk kimono I bought in Japan. I love wearing this long black silk robe with beautiful pastel colored flowers cascading from the shoulders. It is a very samurai-like. Of course you can wear a dressing gown, or smoking jacket. It really doesn't matter what kind of robe you wear, the important thing is that you wear nothing underneath it.

STEP VI

If you are a smoker, now is the time to do your thing. Who cares about the price we pay for smoking. There are moments of human experience that demand a smoke. To do otherwise would be moral cowardice.

STEP VII

By now you have sufficiently relaxed so that both your mind and spirit are in a delicate state of arousal couched in the serenity of great well being, and you are now instructed to open your favorite bottle of wine. I shall not wax at any length on the importance of wine in the great bumpy process of civilizing man. The point is obvious to me-without wine the world would have already destroyed itself, or, who would want to live in a world without wine? Be sure to use your finest crystal. Take a langorous taste. Breathe its

essence, reflect on the subtle warm wave that is flowing over your body. You are now ready to unpack your amplifier.

OPERATION

The AC power cord should be plugged into a source of 120 volts, 60 Hz, AC current. Press the power switch to the right to turn the amplifier on.

A standard 2-wire power cord was chosen in preference to a 3-wire grounded AC cord, because there is no significant current leakage in this design. Where local requirements dictate the need for a 3-wire power connection, a ground lug may be attached to the chassis adjacent to the AC line fuse holder.

TURN ON DELAY

This is a feature that appears only in the most sophisticated and expensive audio equipment. As it takes a short period of time for any circuit to stabilize, a time delay circuit is a great benefit. It is probably true that most electronic components fail during the turn-on period when it is the easiest to damage speakers. There is a 45 second turn-on delay in the MOSCODE TUBE AMPLIFIERS so that there is no chance of damage to your speakers. This 45 seconds should be used for checking the level in the wine glass, that your smoke is going well and the room light is subtle. Be sure to check that your answering machine is on—because you certainly do not want to be disturbed by any nerd friends.

VENTILATION

There is a direct relationship between reliability and ventilation—just like with people. The more fresh air you and your amplifier get the better you will both work. There will be no operation problems with your amplifier if you put it in a cabinet or bookshelf. It will run hotter and the heat sensing circuits which protect the output devices from overheating will cut it. The amplifier will only be able to deliver long, sustained, high output if it is properly ventilated; if not, then the amplifier will protect itself, before it can deliver full output. Placing your amplifier on a well ventilated shelf, or behind your speakers will be quite adequate. Some audiophiles put a small wooden block under their amplifiers to maximize the convection air flow. If you put the amplifier in a very confined space it would be good idea to put a small whisper fan in the space with some ventilation holes.

INPUT

Standard phono jacks are installed to accept conventional shielded cables. Be sure that the outer shield connection is secure, to avoid hum. The length of these cables (so as to permit remote location of the amplifier, if desired) is limited only by the output impedance of the preamplifier. If it is 100 ohms or less, cable lengths of up to 100 feet are permissible without loss of performance. Special low capacitance cables enable even greater distance between preamp and power amplifier. It is desirable to keep the left and right input cables close together throughout their length to minimize the likelihood of hum pickup. They should cross AC cords at right angles—never running parallel to AC lines at close range.

OUTPUT

The loudspeakers connect to the red and black 4-way binding posts. These are of particularly heavy duty construction to handle the high currents which may be involved. They are spaced for double banana plugs, or you can connect stranded wire through the vertical hole in the shaft which is visible when the cap is unscrewed.

To be certain that no strands of wire are unsecured, a tinned end, or a spade lug soldered to the wire is recommended.

Be sure to maintain correct speaker phasing by watching the lead identification in the hookup wire, and the identification of the speaker terminals. It is important that the "sense" of one speaker's connections match the others. If the speakers are out of phase, you will find that the sonic image has a "hole in the middle", and there will be loss of bass. This will be most evident on monophonic material. Correct it by reversing the leads to one speaker.

The black output terminals are connected to ground internally. The black terminals may be connected together (common ground) when in the normal stereo mode, to utilize headphone junction boxes, or other accessories employing a common ground system.

It is important that the red terminals *never* be connected together when operating in stereo. Thus it is important that you carefully observe the proper connects when using a common ground device, to be sure there is no reversal.

CABLES

We highly recommend using the finest interconnect and speaker cables possible. These cables have dramatic effect on the final sound quality you will hear and the very nature of the MOSCODE circuitry demands high quality cables.

While there are many brands of the "super" cables on the market, consult your local hi fi emporium for the best brands.

SPECIAL WARNING

The MOSCODE 600 amplifier should only be operated by a mature individual who can remain under control no matter how exciting the music which is playing. This amplifier is capable of prodigious power, and can turn many speakers into bacon. Various protection devices are incorporated in this amplifier to prevent damage to your speakers and your ears.

SUBSONIC PROTECTION

Many turntable systems will reproduce frequencies below 20 hertz either because of instability in the tonearm, record warps, or acoustical feedback. The MOSCODE 600 will easily amplify these signals- causing damage to your speakers. To prevent this we incorporated a sensing circuit that will disconnect the output stage when the amplifier is about to amplify any signal below 10 hertz. If you should be playing your amplifier that has significant bass content and you hear the amplifier temporarily turn off then this shall act as a warning that there is subsonics passing through your system. You should investigate the operation of your turntable to prevent the continuation of this problem.

HIGH SPEED COOLING FAN

The cooling fan for the tunnel heat sink has a heat sensing circuit which detects when the operating temperature of the amplifier begins to rise from heavy use. When this occurs the fan will shift into high speed operation insuring that the output stage does not get over heated.

TURNOFF FROM HIGH TEMPERATURE

If the amplifier is used under continuous high output levels and if the high speed fan can not cool the amplifier sufficiently, an additional heat sensor on the heat sink will automatically turn the amplifier off. The amplifier will stay off until the temperature of the heat sink returns to a safe operating temperature, at which time it will automatically turn itself back on.

The combination of protection fuses, subsonic protection, high speed fan, and automatic temperature control will insure that the MOSCODE amplifier will give you years of trouble free operation.

We cannot emphasize strongly enough that the MOSCODE 600 amplifier is capable of damaging most speakers if used in an unjudicious manner.

LOUD SPEAKER FUSE SELECTION

The MOSCODE 300 is supplied with 10 ampere fuses in the speaker lines. This value has been chosen for initial use because this amplifier is capable of delivering enough power to damage speakers if conservative fuses are not used. This value has been

chosen because it will protect most speakers. If you are using small speakers it may be appropriate to use 5 ampere speaker fuses. UNDER NO CIRCUMSTANCES SHOULD YOU USE SPEAKER FUSES more than 10 ampere- which is the maximum allowable fuses that you can use without overdriving the output stage. These fuses are externally located next to the inputs and outputs.

We do not recommend slo-blo fuses because they will not offer the proper protection for your speakers. If you are constantly blowing speaker fuses it usually indicates that you are not using the appropriate size fuses for your speakers- but remember never exceed the 10 ampere rating limit. It is important to remember that it is your responsibility to use the proper fuse for speaker protection and if you should damage your speaker by overdriving it NEW YORK AUDIO LABORATORIES WILL TAKE NO RESPONSIBILITY FOR DAMAGED SPEAKERS.

FUSES ON CIRCUIT BOARD

The fuses on the circuit boards, if they should blow, must be replaced only with the same type and value. Do not try to be creative about these fuses as they are essential protection for the output stage. If these fuses need replacing, only use fast blow 10 ampere fuses- never use slo-blo fuses.

WARRANTY STATEMENT

This unit is offered with limited warranty as follows:

1. WARRANTY: N.Y.A.L. warrants the product designated herein to be free of manufacturing defects in material and workmanship, subject to the conditions hereinafter set forth, for a period of three (3) years from the date of purchase by the original purchaser. To obtain this Warranty THE ORIGINAL PURCHASER MUST MAIL TO N.Y.A.L. WITHIN THIRTY DAYS OF THE DATE OF PURCHASE THIS WARRANTY REGISTRATION FORM COMPLETE, DATED, AND SIGNED BY BOTH THE PURCHASER AND THE SELLING DEALER TOGETHER WITH A COPY OF THE BILL OF SALE OR OTHER PROOF OF PURCHASE OF THE PRODUCT. N.Y.A.L. will then validate the Warranty and return the validated Warranty to the purchaser.

2. CONDITIONS: This Warranty is subject to the following conditions and limitations. The Warranty is void and inapplicable if product has been used or handled other than in accordance with the instructions in the owner's manual, abused or misused, damaged by accident or neglect or in being transported, or the defect is due to the product being repaired or tampered with by anyone other than N.Y.A.L., or an authorized N.Y.A.L. repair center. The product must be packed and returned to N.Y.A.L. or a N.Y.A.L. authorized repair center by the customer at his or her sole expense. A RETURNED PRODUCT MUST BE ACCOMPANIED BY A WRITTEN DESCRIPTION OF THE DEFECT AND A PHOTOCOPY OF THIS VALIDATED WARRANTY. N.Y.A.L. reserves the right to modify the design of any product without obligation to purchasers of previously manufactured products and to change the prices or specifications of any product without notice or obligation to any person.

3. REMEDY: In the event the above product fails to meet the above Warranty and the above conditions have been met, the purchaser's sole remedy shall be to return the product to N.Y.A.L., or an authorized N.Y.A.L. repair center where the defect will be rectified without charge for parts or labor, except vacuum tubes (see 6 below).

4. LIMITED TO ORIGINAL PURCHASER: The Warranty is for the sole benefit of the original purchaser of the covered product and shall not be transferred to a subsequent purchaser of the product.

5. DURATION OF WARRANTY: This Warranty expires of the third anniversary of the date of purchase. During the first ninety (90) day period following the date of purchase by the original purchaser, the N.Y.A.L. Limited 90-day Warranty supercedes this Warranty.

6. VACUUM TUBES: Vacuum tubes and replacement thereof are warranted for the first year only.

FUSE CHART: AMPS VS. WATTS, USE TO SELECT FUSE TO PROTECT SPEAKERS

FUSE AMPS:	LOAD IMPED.:									
	16 OHMS	12 OHMS	10 OHMS	8 OHMS	6 OHMS	5 OHMS	4 OHMS	3 OHMS	2 OHMS	1 OHMS
0.5	4	3	2.5	2	1.5	1.25	1	0.75	0.5	0.25
1	16	12	10	8	6	5	4	3	2	1
1.5	36	27	22.5	18	13.5	11.25	9	6.75	4.5	2.25
2	64	48	40	32	24	20	16	12	8	4
2.5	100	75	62.5	50	37.5	31.25	25	18.8	12.5	6.25
3	144	108	90	72	54	45	36	27	18	9
3.5	196	147	122.5	98	73.5	61.25	49	36.8	24.5	12.25
4	256	192	160	128	96	80	64	48	32	16
4.5	324	243	202.5	162	121.5	101.3	81	60.8	40.5	20.25
5	400	300	250	200	150	125	100	75	50	25
5.5	484	363	302.5	242	181.5	151.3	121	90.8	60.5	30.25
6	576	432	360	288	216	180	144	108	72	36
6.5	676	507	422.5	338	253.5	211.3	169	127	84.5	42.25
7	784	588	490	392	294	245	196	147	98	49
7.5	900	675	562.5	450	337.5	281.3	225	169	113	56.25
8	1024	768	640	512	384	320	256	192	128	64
8.5	1156	867	722.5	578	433.5	361.3	289	217	145	72.25
9	1296	972	810	648	486	405	324	243	162	81
9.5	1444	1083	902.5	722	541.5	451.3	361	271	181	90.25
10	1600	1200	1000	800	600	500	400	300	200	100
11	1936	1452	1210	968	726	605	484	363	242	121
12	2304	1728	1440	1152	864	720	576	432	288	144
13	2704	2028	1690	1352	1014	845	676	507	338	169
14	3136	2352	1960	1568	1176	980	784	588	392	196
15	3600	2700	2250	1800	1350	1125	900	675	450	225
16	4096	3072	2560	2048	1536	1280	1024	768	512	256
17	4624	3468	2890	2312	1734	1445	1156	867	578	289
18	5184	3888	3240	2592	1944	1620	1296	972	648	324
19	5776	4332	3610	2888	2166	1805	1444	1083	722	361
20	6400	4800	4000	3200	2400	2000	1600	1200	800	400