

# ORANGE



Voice of the World

Dear Friends,

Before the finalised design, we bought, examined and tested over one hundred different makes of amplification from all over the world, including varieties of transistor amplifiers. We also decided to build it to supremacy regardless of cost. Orange equipment represents excellent value and is built to last. This is evident by the heavy orange enamel, baked on to the steel chassis to prevent rust, transformers over-rated for cool operation and the valves adjusted to tick-over well within their limited rating. As for the components they are of the highest quality such as is normally found in studio and broadcasting equipment.

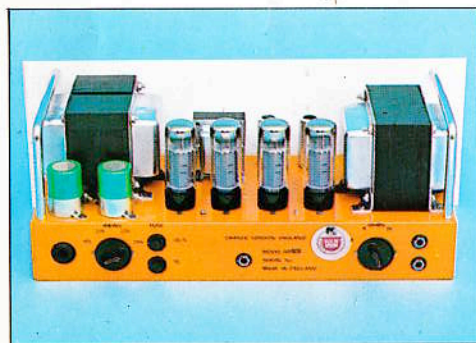
You will find the amplifiers give exceptionally little distortion unless set to do so. It is not difficult to make a good quality amplifier at low power; there are many about, but not many companies have succeeded in making high powered valve amplifiers in which there is little hum and a complete control over sound. With Orange there are over a thousand different combinations of tone with the F.A.C. (Frequency Analyzing Control) which can give your group an original sound.

Your kind purchase of any of our products is backed by the Orange organisation which will freely assist you in any of your activities, and on top of this you will receive an exclusive Orange Log Book.

When you use Orange equipment you are in good company, for the British Broadcasting Corporation, Television Companies, American Broadcasting and other studio and professional people throughout the world use Orange amplifiers, the same as you can purchase from your Local Dealer.

With kind regards,

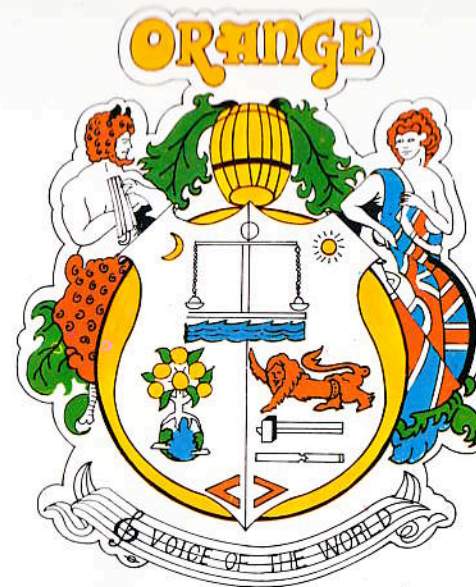
ORANGE



Here you will see the inside of an Orange amplifier. As you can see the amplifier is built as beautifully inside as it is outside. The chassis having an Orange enamel baked-on finish to ensure the amplifier having a long, durable and useful life. Notice the chrome roll-over cradle bars and fully shrouded high permeability transformers.

Before the final inspection, an Orange amplifier passes through no less than 56 check points before the final Gold Seal of Approval is affixed. Of course we are also proud to affix the world famous British Export Seal of Approval.

We reserve the right to alter specification without notice. All sizes and weights are approx.



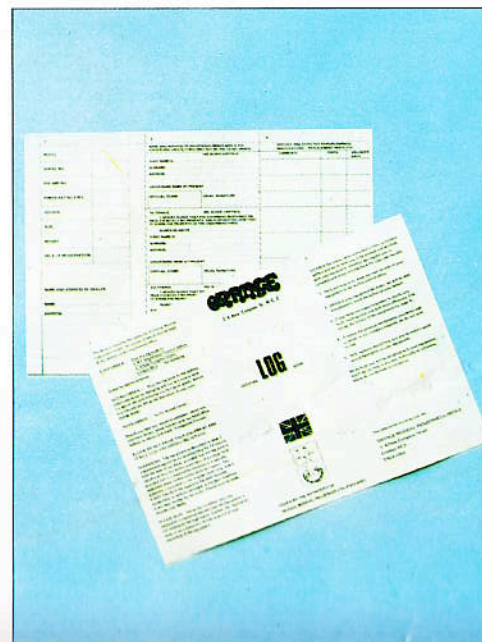
Finally we should like to explain our Orange Coat of Arms or crest, which signifies the ultimate in craftsmanship. For wherever you see this crest you will know that it is the mark of fine workmanship and quality equipment.

Orange's updated version of the medieval coat of arms portrays symbolically their standards, goals and intentions, just as those once worn by 'knights of old'. And they are proud to display it on all their high quality products, feeling it represents the overall meticulous approach they have to their work.

Central in the design is lush foliage springing from the barrel of plenty. Symbolic of the wide range of quality equipment under the Orange label. The god of nature and hypnotic music stands to the left, and not to forget Orange's important position in the British music industry—Britannia is on the right.

Below, the scales over water between Sun and Moon convey the energy that Orange put into ensuring that all their customers, domestic and overseas, get a fast, efficient and above all fair day and night service. The hammer and chisel are the symbols of fine craftsmanship; The lion in chains of the power and strength of Orange equipment; and the musical symbols 'Diminuendo' and 'Crescendo' mean that Orange amplifiers retain their high fidelity at both the softest and loudest volumes.

At the bottom of the emblem, emblazoned across the musical stave, is Orange's world famous motto "Voice of the World."



When you first receive your Orange amplifier you will also receive a Log Book. Fill in your name, address and other relevant details and post it straight back to Registration Control, where the information will be computerized, and store a complete history of your unit.

Your Log Book is proof of ownership and must be stamped by the computer. Subsequent owners must also return the Log Book for stamping. Your Log book also contains your generous guarantees. Some other benefits will be readily seen:

It can help engineers to rectify any faults much quicker and with more efficiency if he knows the history of the equipment. Should your equipment be stolen, we will assist the police on your behalf. This log book should help you retain a good second-hand value on your equipment. It helps us to help you.

# ORANGE

ORANGE MUSICAL INDUSTRIES  
PROUDLY PRESENT:

## THE GRAPHIC VALVE AMPLIFIER (Suitable for Lead Guitar Bass or Organ)

Many years of experience and research have enabled us to produce the ultimate in valve amplifier design, embodying the highest standards together with the latest techniques in electronic technology.

With this background we are delighted to offer, to you, the musician, this superior valve amplifier.

The graphic panel layout makes the amplifier simple and quick to operate on stage. The F.A.C. control will switch you to almost any sound you could possibly wish for and in conjunction with

controls listed below will give you absolute clarity (with that unmistakable 'ring' characteristic with valve amplifiers) to back-biting long sustain. The absence of noise and hum make this amplifier ideal for studio use.

### CHROME FRONT HANDLES

Are an integral part of the "Cradle Built Chassis" and apart from their obvious use enables the chassis to become of "Roll-Over" design to assist the Service Engineer.

### CABINET

High density marine plywood covered in tough anti-scuff vynide. Nylon corner protectors. Tough "Drag Skids" underneath. Carry handle tested at 150 lbs. Double gold cord band for look appeal only.

This unit comes complete with Log Book Guarantees and strong waterproof cover.

### TECHNICAL SPECIFICATION FOR GRAPHIC VALVE AMPLIFIER

INPUT SENSITIVITY: Hi 4 mV, Lo 10 mV  
INPUT IMPEDENCE: 200K ohms  
FREQUENCY RESPONSE: Power Amplifier  
± 2db at 30 Hz to 20KHz  
TONE CONTROLS: Bass ± 10db at 100 Hz  
Treble: ± 12db at 10 KHz Boost: + 10db at 6KHz

#### INPUTS

Hi: A very sensitive input designed to give back-biting long sustain.

Lo: A lower gain input for a clean undistorted sound.

#### F.A.C. (FREQUENCY ANALYSING CONTROL)

A six position control gives instant selection of tones ranging from a thick chunky sound to a breath-taking presence.

#### BASS AND TREBLE CONTROLS

These rotary controls enhance the tone already selected by the F.A.C. control.

#### BOOST

A secret design that adds that unique extra bite characteristic with Orange amplifiers.

#### VOLUME

Gives smooth finger-tip control of the gain from a whisper to the loudest sound.

#### ECHO SEND AND RETURN

An additional professional facility for effective use of almost all echo and reverb units without impairing the original sound.

#### POWER

On/Off switch and indicator lamp.

#### SLAVE OUTPUT (At rear)

This socket enables any number of slave amplifiers to be connected for unlimited power.

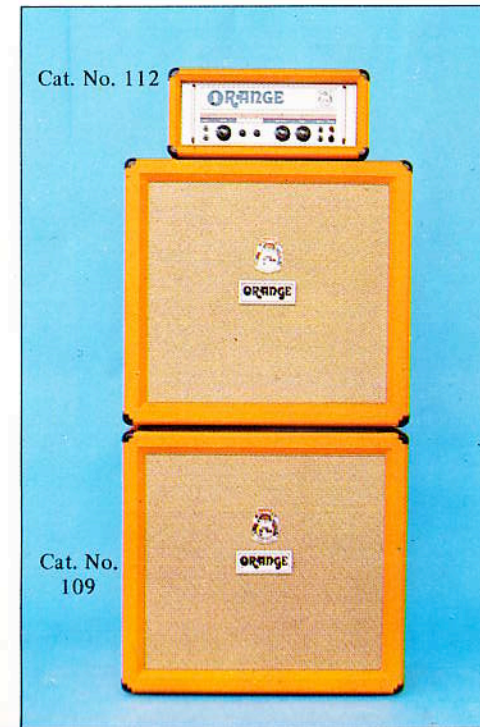
SIGNAL TO NOISE RATIO: Power Amplifier better than 80db  
SEND AND RETURN SENSITIVITY: 500mV  
SLAVE OUTPUT SENSITIVITY: 750 mV  
OUTPUT POWER: Available in 120 Watt R.M.S. or 80 Watt R.M.S. models  
OUTPUT IMPEDENCE: 4 ohms 8 ohms 16 ohms  
MAINS VOLTAGE: 110V 200V 220V 240V 50/60 Hz  
VALVE LINE UP: 2xECC.83 ...4XEL.34 + (120 Watt) ...2XEL.34 (80 watts) ... 9 Diodes

High permeability fully shrouded, custom transformers. Plated steel chassis with baked on enamel finish.

APPROXIMATE SIZE: W 54cms (21½")  
D 24cms (9½") H 24cms (9½")  
APPROXIMATE WEIGHT: 22Kg. (49lbs.)



Cat. No. 112



# ORANGE

## 4 x 12 MINI CABINET

The 4 x 12 Mini stack cabinets have in each of them 4 massive heavy duty 12" custom speakers. These tough cabinets are acoustically designed for maximum audio power. This multi-purpose cabinet is fully strutted from front to back and is available in 120 watt or 200 watt R.M.S. models. The high density marine plywood cabinet is covered in tough washable vynide with knock proof nylon corners and a kick proof baffle.

They come complete with waterproof covers and guarantee cards. We recommend that two cabinets be used with our 120 watt graphic valve amplifier as the true R.M.S. output can exceed 120 watts. However, one cabinet is very suitable with our 80 watt amplifier.

SIZE: W.76cms (30¼") D.37cms (15")  
H.71cms (28½")  
APPROX. WEIGHT: 47Kg. (105lbs.)



Cat. No. 109

## BOUNCER BASS CABINET

This folded horn enclosure incorporates one massive 15" speaker and is internally strutted to resist vibration. This cabinet is highly recommended for bass or organ work, but with the addition of two horn units this makes a full range enclosure, at a very low cost, ideally suited to p.a. or disco. The simple cross section drawing below explains its construction.

The bin embodies the latest technique in design which increases the efficiency of a speaker several times. The drive unit is mounted backwards in a sealed airtight enclosure so its full power is bounced off the rear of the acoustically tuned cabinet to give maximum power forwards. The cabinet is finished in our usual tough vynide with theatre black interior and is available with a 60 or a 100 watt unit.

SIZE: W.55cms (22") D.58cms (23")  
H.95cms (38")  
APPROX WEIGHT: 41kg. (92lbs.) 60 Watts  
47Kg. (105lbs.) 100 Watts

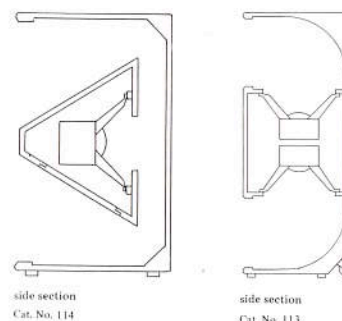


Cat. No. 114

## 2 x 12 PROJECTOR COLUMN

A monitor projector column with two massive 12" heavy duty speakers which is suitable for our 80 Watt amplifier or small p.a. disco etc. or on stage monitoring. The high density marine plywood cabinet is covered in tough vynide with nylon corners and kick proof baffle.

Available in 60 or 100 Watt models.



SIZE: W.45cms (18") D.30cms (12")  
H.75cms (30")  
APPROX. WEIGHT: 25Kg. (54lbs.)



Cat. No. 107

## 2 x 15" REFLECTOR CABINET

This cabinet has been developed to give ultimate reproduction of the bass guitar using our up to date parabola reflex design. Two massive 15" back to back speakers in a sealed enclosure to provide mutual damping and reflected through the lower and upper ports, and are generously strutted and strengthened to eliminate all unwanted vibrations. In use the cabinet stands firm on hardwood skids but when tilted back, can be wheeled anywhere with the minimum amount of effort. The cabinet is built from high density marine plywood and covered in tough orange vynide. It comes complete with strong water proof cover. Available in 120 or 200 watt models.

SIZE: W.58cms (23") D.50cms (20")  
H. 120cms (48")  
APPROX. WEIGHT: 52Kg. (114lbs.)



Cat. No. 113

# ORANGE

## SUPER POWER COMBINATION CAT. No. 115 (80 WATT OR 120 WATT R.M.S.)

This compact unit was designed for high powered use where greater volume is required for stage work but size is a problem. This firmly established combination incorporates the famous graphic valve amplifier and two special heavy duty 12" speakers. This robust unit is available with or without built in reverberation and comes complete with strong water proof cover. The high density marine plywood cabinet is finished in scuff proof vynide with nylon corners and practical recessed handles. J.B.L. speakers can be fitted as an optional extra.

### TECHNICAL SPECIFICATION

INPUT SENSITIVITY: Hi 4mV, Lo 10mV  
INPUT IMPEDENCE: 200K ohms  
FREQUENCY RESPONSE: Power Amplifier  
±2db at 30 Hz to 20KHz  
TONE CONTROLS: Bass ±10db at 100Hz  
Treble: ±12db at 10 KHz Boost: +10db at 6KHz

SIZES: W.70cms (28") D.25cms (10")  
H.60cms (24")  
APPROX. WEIGHT: 38Kg. (84lbs.)

## CUSTOM REVERB UNIT CAT. No. 116

This is a versatile self contained unit designed to be used with any amplifier. Equally effective when used direct with an instrument or via echo send and return sockets for p.a. application. It utilises full size Hammond reverb springs to give an exceptionally clear sound. Supplied complete with water proof cover, footswitch and operating instructions.

Features: Individual volume, bass and treble controls  
Separate reverb depth control  
Mode switch for direct or indirect use

### TECHNICAL SPECIFICATION

Input Sensitivity: Hi 4mV...Low 10mV  
Input Impedance: 20K  
Output Level:  
Mode Switch Clean Feed and Reverb 25mV  
Mode Switch Reverb Only 600mV

SIZES: W.54cms (21½") D.24cms (9½")  
H.24cms (9½")  
APPROX. WEIGHT: 11Kg. (24lbs.)

## CUSTOM REVERB TWIN (50 WATTS OR 100W RMS) CAT. No. 125

A completely new design for studio quality reproduction, enables us to present this addition to our extensive range. Full tonal, reverb and tremelo facilities makes this versatile unit suitable for both stage and recording use. The amplifier drives two massive 12" speakers housed in a beautifully designed marine plywood cabinet finished in tough orange vynide, nylon corners.

**NORMAL CHANNEL ONE:-** Two inputs, Hi and Lo gain with bass treble and volume control.

**BRILLIANT CHANNEL TWO:-** Two inputs, Hi and Lo gain with bass, treble, middle and volume controls. In addition a rich reverb sound, with separate depth control and tremelo with depth and speed control can be obtained at the touch of the foot switch provided.

A master volume control operates on both channels.

SIZES: W.67cm (27") D.27cm (11")  
H.55cm (22")  
APPROX WEIGHT 33 Kg (72lbs.)

## CUSTOM REVERB AMPLIFIER CAT. No. 129

The amplifier section of the popular reverb twin is available as a amplifier top in both 50 and 100 Watt versions.

SIZES: W.67cm (27") D.27cm (11")  
H.22cm (9")  
APPROX. WEIGHT: 24Kg. (53lbs.)

## CUSTOM REVERB P.A. CAT. No. 130

This is a six channel mixer amplifier with built in reverb. Each channel has individual bass, treble, reverb and volume controls. In addition there is a master, reverb, presence and volume. The unit gives 100 Watts of clear undistorted output and makes an ideal P.A. for any group large or small. There is a slave output for additional power units to be used.

SIZES: W.67cm (27") D.30cm (12")  
H.22cm (9")  
APPROX. WEIGHT 24kg. (53 lbs)



### TECHNICAL SPECIFICATION INSTRUMENT AMPLIFIERS CAT. No. 125 & 129.

Input Sensitivity: 4m V & 10mV.

Tone Controls: Bass ±10db 100Hz  
Middle ±8db 1KHz  
Treble ±10db 10KHz

TREMELO: Zero to 100% modulation  
Speed 0.5Hz to 10Hz

REVERB: Full size Hammond spring unit

FOOTSWITCH: Double Reverb On/Off  
Tremelo On/Off

### P.A. AMPLIFIERS CAT. No. 130

Input Sensitivity: Hi Impedance 4mV

CHANNEL CONTROLS: Bass ±10db 100Hz  
Treble ±10db 100Hz  
Volume & Reverb Levels

MASTER CONTROLS: Volume and Reverb Levels  
Presence + 8db @ 6KHz

FOOTSWITCH: Reverb On/Off

### POWER SECTION ALL MODELS

50 or 100 W.R.M.S. Output  
MAINS 110-200-220-240 V 50/60 Hz  
FUSES 3 Amp Mains 1 A.H.T.  
VALVES 4ECC 83 2ECC 82  
4EL 34 (2EL 34 - 50W)  
7 Diodes

# ORANGE

## SUPER ROAD WORKER P.A.

A firm favourite with groups and musicians as it incorporates facilities usually only found in full size mixing consoles.

Although it sounds excellent without the additional horn units they do add a far reaching presence to the system at little extra cost.

Comprises: 6 CHANNEL 120 WATT P.A. AMPLIFIER (HY-BRID)

This unit has a fully transistorised mixer section in conjunction with a reliable valve power amplifier, capable of delivering in excess of 120 Watt R.M.S. (and by the simple addition of a slave amplifier the output is doubled without any modification). Echo send and return sockets are provided should separate reverb or echo be required. A monitor output and a special tape record output is fitted for tape recording enthusiasts.

High or low control matches input to any microphone. Each channel incorporates separate volume, bass, midlift and treble controls and an echo depth control. Overall sound is provided by a 'Master Volume' and master bass and treble controls. This unit has a heavy duty stove enamelled steel chassis housed in a three quarter inch marine plywood cabinet and comes com-

plete with guarantee, log book and water proof cover.

### TECHNICAL SPECIFICATION

INPUT Hi/Lo ... Impedence control - 9mV  
VOLUME Individual volume controls on each channel

TONE Bass  $\pm 16$ db at 100Hz  
Treble  $\pm 16$ db at 10KHz  
Middle  $\pm 12$ db at 2KHz

ECHO Echo send level controls on each channel

MASTER Volume controls all channels  
Bass  $\pm 16$ db at 100Hz  
Treble  $\pm 16$ db 10KHz

SIGNAL OUTPUT Output for additional slaves 750mV

POWER OUTPUT 120 Watt R.M.S. into 4 Ohms 8 Ohms 16 Ohms

MAINS 110V 200V 220V 240V 50/60Hz

Fuses 1 Amp H.T. 3 Amp MAINS

POWER AMP 2ECC83.4 EL34 9 Diodes

PRE-AMP 28 Transistors, Bridge rectifier

SIZES: W.54cms (21½") D.40cms (16")  
H.30cms (12")  
APPROX. WEIGHT: 24Kg. (53lbs.)

## 4 x 12 COLUMN CABINET

A new size cabinet houses four massive 12" heavy duty speakers. Fully strutted to resist any resonances. Marine plywood cabinet beautifully finished in tough Orange vynide with recessed handles and kick-proof baffle material. Supplied with water-proof cover. Power handling 120 Watts R.M.S. each

SIZE: W.55cm (22") D.30cm (12")  
H.124cm (49½")  
APPROX WEIGHT 49Kg. (108lbs.)

## DOUBLE HORN UNIT

To give outstanding presence and clarity to your system this unit contains two reliable custom horn units. Fully protected by a built-in passive cross-over. Extra outputs allow it to link to any Orange cabinet. Handling power of a pair is 100 Watt R.M.S. Complete with water-proof cover.

SIZE: W.55cm (22") D.30cm (12")  
H.22cm (9")  
APPROX WEIGHT 11Kg. (26lbs.)

## SUPER COMPACT P.A.

This super quality power public address system is thoroughly recommended for groups with a space problem as the entire system will fit quite easily into a mini or large car boot.

Comprises: 4 CHANNEL 120 WATT GRAPHIC P.A. AMPLIFIER

A four input P.A. amplifier with master volume, bass and treble controls. Provide with echo send and return facilities and a slave socket for any number of additional power amplifiers. Its first owner receives a Log Book, guarantee and waterproof cover.

### TECHNICAL SPECIFICATION

INPUT 4 Inputs with individual volume controls

Sensitivity: 10mV into 100K ohms  
TONE Bass  $\pm 10$ db at 100Hz  
Treble  $\pm 12$ db at 10KHz

VOLUME Master volume control  
ECHO SEND AND RETURN To drive external echo or reverb units.

SLAVE Output to slave amplifier 750mV

OUTPUT 120 Watt R.M.S. 4 Ohms 8 Ohms 16 Ohms

MAINS 110V 200V 220V 240V 50/60Hz

VALVE LINE UP 2 x ECC83, 4 x EL34, 4 x Diodes

SIZE W.54cm (21½") D.24cm (9½")  
H.24cm (9½")  
APPROX. WEIGHT 22kg (49lbs.)

## HORN PROJECTOR CABINET

This sturdy cabinet contains two massive 12" speakers and incorporates two custom horn units with built-in passive cross-over, giving that natural sound. The 3/4" marine plywood enclosure is covered in anti-scurr vynide with nylon corners and waterproof cover. Each unit handles 110 Watts R.M.S. Also available with a 15" bass unit. Cat. no. 127/2H.

SIZE: W.55cm (22") D.30cm (12")  
H.75cm (30")  
APPROX. WEIGHT 30 Kg (65lbs.)

## SUPER ROAD WORKER P.A.

Cat. No.  
121A

Cat. No.  
106

Cat. No.  
104B

Cat. No.  
106

## SUPER COMPACT P.A.

Cat. No.  
107/2H

Cat. No.  
102

Cat. No.  
107/2H

## HIGH POWER PUBLIC ADDRESS SYSTEMS

From the magnificent range on pages 7 & 8 you can select a complete P.A. system suitable for auditoriums and outdoor festival use. On special order we can supply snake leads with stage boxes to your own personal requirements. This will enable you to take your mixer to the rear of the hall and control the sound off stage. For further details of P.A. systems contact our expert 'Information Service'.

Slaves are the building blocks of any P.A. and enable a modest 120 watt system to be added to produce up to 3000 watts or more. Two basic slave units are available.

### 120 WATT GRAPHIC SLAVE

This is a compact 120W R.M.S. slave, based on the reliable valve power amp employed in the graphic range of amplifiers, which can be used as a single unit in small P.A.'s or linked



Cat. No.  
103T



Cat. No.  
111

together for larger systems. The slave can also be used to drive stage monitor systems or add to the power of stage equipment.

### TECHNICAL SPECIFICATION

**INPUTS** In and Out sockets on front panel  
**SENSITIVITY** 750mV input for full output  
**GAIN** Volume control operates on each slave but leaves other slaves unaffected.  
**POWER** 120W R.M.S. Output ... Two sockets adjustable to match 4 8 and 16 Ohms  
**MAINS** 110V 200V 220V 240V ... 50/60 Hz  
**VALVE LINE-UP:** 2x6CC83 .. 4xEL34 .. 9 Diodes

**SIZE:** W.54cms (21½") D.24cms (9½")  
H.24cms (9½")  
**APPROX. WEIGHT** 22Kg. (49lbs.)

### 200 WATT TRANSISTOR SLAVE

Many years of research and development have produced this worthy successor to our famous 200 Watt valve slave.

This slave although much lighter and cooler running than its predecessor is nevertheless equally reliable and powerful.

### TECHNICAL SPECIFICATIONS

**INPUT** In and out sockets on front panel  
Slave output on rear panel  
**SENSITIVITY** 750mV input for full output  
**GAIN** Volume control on front panel  
**POWER** 200W Maximum power 3 - 15 Ohms  
**MAINS** 110V 220V 220V 240V ... 50/60 Hz  
Fully fused and protected by latest electronic techniques  
**SIZE:** W.68cms (27") D.30cms (12")  
H.20cms (8")  
**APPROX. WEIGHT** 17Kg (38lbs.)

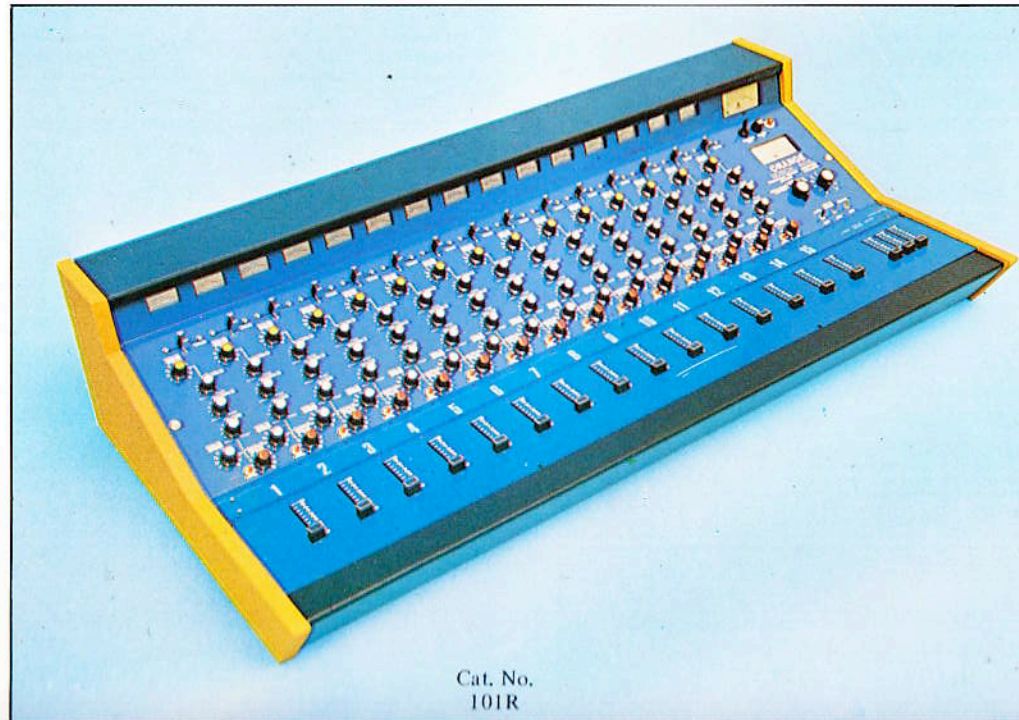
### 15 CHANNEL STEREO MIXER

At last a studio quality 15 channel stereo mixer with full facilities at a realistic price. This beautifully finished unit comes complete with a sturdy transit trunk.

### INDIVIDUAL CHANNEL CONTROLS TWIN INPUTS PER CHANNEL

1 low impedance. 200 ohm balanced.  
1 high impedance. 50K ohm, total 30 inputs.

**ILLUMINATED VU METERS** - indicating individual input gain.



Cat. No.  
101R

**STEREO PAN POT** - for right to left planning.  
**ECHO SEND CONTROL** - allows individual effect strength adjustment and use of any echo/reverb unit.

**INTERNAL REVERB** - of studio quality.

**TREBLE, MIDDLE AND BASS CONTROLS.**  
**FOLDBACK/MONITOR CONTROL** - in each channel gives main monitor mix and is absolutely unaffected by level of individual channel faders. A fantastic plus over all other mixers. Eliminates monitor feedback caused by raising channel levels.

**PRE-FADE SELECTOR** - By selecting pre-fade on the headphone monitor, each channel can be monitored alone by pressing that channel PFL button.

**INPUT GAIN CONTROL** - The ultimate in stage mixing control. This control allows adjustments of microphone/input gain regardless of signal strength. Level is checked by indication of VU meter, eliminating unwanted channel distortion without padding. Does not change dynamic tone. Actually controls input preamp gain.

**CHANNEL FADERS** - Control the stereo output to master, does not affect monitor level or meter reading. No sudden increase in monitors to cause feedback.

### MASTER CONTROLS

**ILLUMINATED MASTER V.U. METERS** - for right and left line output.

**POWER SUPPLY** - Switch, fuse and indicator - 110/240 V.A.C. operation switched externally on input jack panel.

**HEADPHONE MONITOR** - With accessory headphones can be put in pre-fade, line, or monitor listening modes.

**STANDBY SWITCHES** - for fingertip control of line, monitor, and echo send.

### STEREO LINE, MONITOR AND ECHO RETURN FADERS

**FRONT PANEL** - Has exclusive clear plastic panel to use as writing desk. You can mark channel functions with a china marker, and erase later.

### JACK PANEL

30 inputs - 15 low - 15 high impedance. Right and left lines out. Monitor out. External echo in/out.

### TECHNICAL SPECIFICATION

Input sensitivity: -50db, input impedances 200 ohms balanced, 50K unbalanced.  
Balanced stereo output each 2 volts 8db, 600 ohms. Power supply 110/240 V.A.C., 1 amp.

**SIZE:** WITHOUT TRANSIT CASE  
W.105cms (42") D.55cms (22") H.24cms (9½")  
**APPROX. WEIGHT:** 35Kg (77lbs.)

# ORANGE

## WEDGE MONITOR

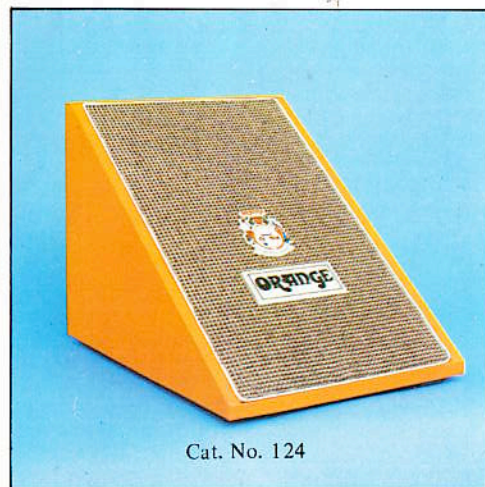
A cabinet housing one massive 12" speaker designed specifically for on-stage monitoring. Linked through your main P.A. system it enables the vocalists and musicians to hear themselves above the level of the stage instruments. Available as a 60 Watt R.M.S. unit, complete with waterproof cover.

OVERALL SIZE W.40cms (16")  
D.50cms (20") H. 38cms (15")  
APPROX. WEIGHT 14 kg (30lbs.)

## FOUR HORN UNIT

Four custom horns fully protected by a built in passive cross-over add that far reaching presence and clarity to any system. This compact unit can be coupled to any speaker cabinet by the extra outputs supplied at the rear. This sturdy unit comes complete with water proof cover. Treble handling power 200 Watts a pair.

SIZE W.55cms (22") D.30cms (12")  
H.31cms (12½")  
APPROX. WEIGHT 31Kg (14lbs.)



Cat. No. 124



Cat. No. 121B

## 6 CHANNEL PROFESSIONAL MIXER

A compact easy to use mixer with full tone controls on each channel and separate echo send mixing stage.

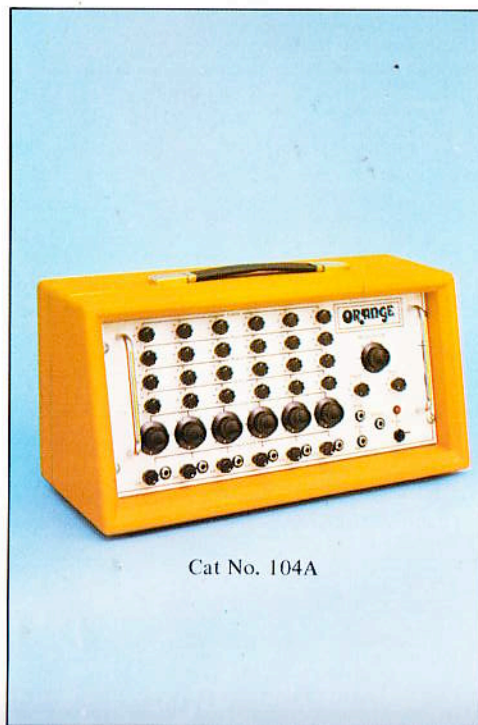
Each channel has:— an input attenuator control to match to any microphone; a gain control; bass middle and treble control. The overall sound is governed by a master volume, bass and treble controls. Also provided are outputs to drive slaves and/or tape recorder.

At the rear of the unit is another jack socket which enables two 6 channel mixers to be linked to provide 12 channels.

The unit is housed in a strong cabinet, with an angled front for ease of operation, and is supplied with waterproof cover, instructions and guarantee.

### TECHNICAL SPECIFICATION

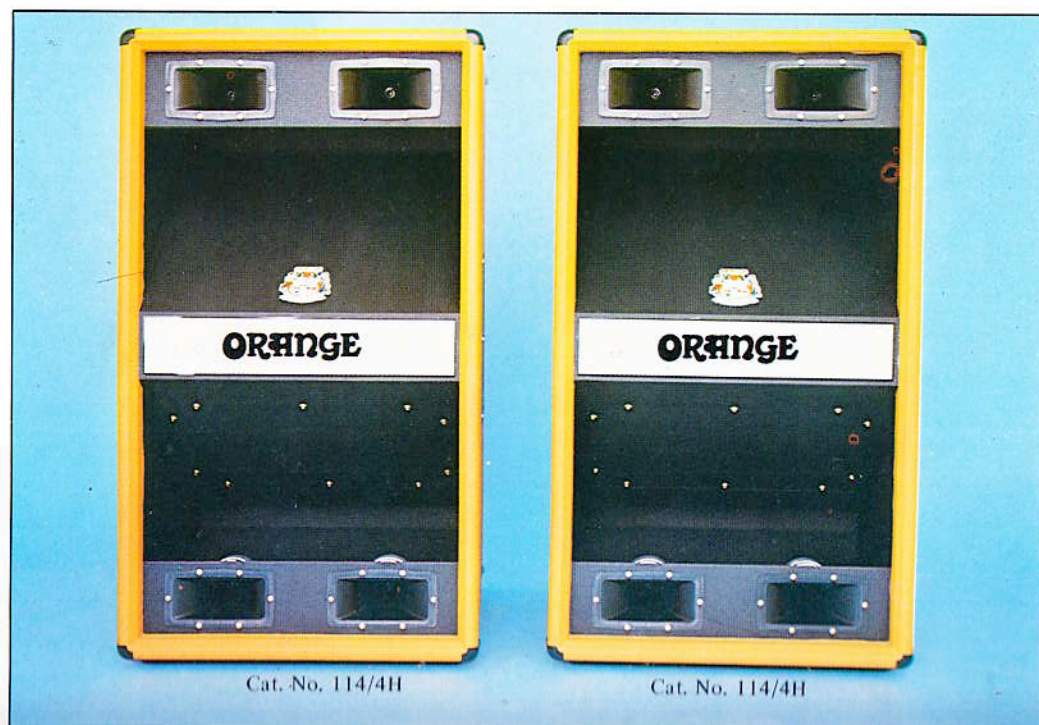
INPUT Hi-Lo ... Impedance control ...  
Maximum sensitivity 9mV  
VOLUME Individual volume on each Channel  
TONE Bass  $\pm 16\text{db}$  at 100Hz  
Middle + 12db at 2KHz  
Treble  $\pm 16\text{db}$  at 10K



Cat. No. 104A

ECHO Echo send level controls on each channel  
MASTER Volume controls all channels  
Bass  $\pm 16\text{db}$  at 100Hz  
Treble  $\pm 16\text{db}$  at 10KHz  
SIGNAL OUTPUT 750 mV to drive any slaves  
MAINS 240 - 110V 50/60 Hz ...  
28 transistors and bridge rectifier

SIZE W.54cms (22") D.22cms (9")  
H.26cms (10¼")  
APPROX. WEIGHT 9Kg. (19lbs.)



Cat. No. 114/4H

Cat. No. 114/4H

## BOUNCER HORN CABINET

This folded horn unit incorporates a massive custom heavy duty Electro-Voice 15" speaker. Sealed in an airtight enclosure. The bin works on the same principal as the bouncer bass described on Page 4, except sturdily mounted top and bottom of this unit are four heavy duty custom horn units which bring out the middle and higher frequencies giving perfect clarity and reproduction. An efficient built-in passive cross over fully protects each horn from overload ensuring the highest quality at all times. The 3/4" marine plywood cabinet is covered in washable vynide with nylon corners and recessed handles. Its interior is finished in matt black complete with waterproof cover.

### POWER HANDLING

Bass 100 Watts R.M.S.  
Treble 100 Watts R.M.S.

SIZE W.55cms (22") D.58cms (23")  
H.95cms (38")  
APPROX WEIGHT 51kg. (113lbs.)

# ORANGE

Orange were the pioneers in supplying D.J. units to the home market which generally results in custom building equipment for many of the countries top disc-jockeys.

From this professional experience has evolved professional equipment for the D.J. at a price he can afford. The two models below are the result of continuous field testing and are the latest models developed for the D.J. who requires the ultimate in sound.

Our equipment is known the world over and is quoted, by many professionals as the standard. You will find it recognised and its standards accepted by almost every working D.J.

Naturally we use reliable and well tried brands of turntables but should you require the unit without turntables this can be supplied, and our technical information bureau will be glad to give you every assistance. Don't take our word they are the best. Go along to your nearest dealer and compare them with any other console made anywhere in the world.

## THE CUSTOM DISCO UNIT

This set-up comprises:-

Disco unit fitted with the latest SP 25 Mk.4 Garrard deck with Acos GP 91/1 cartridges. This strong marine plywood cabinet is covered in tough washable vynide and is completed with a waterproof cover.

We highly recommend our 120 Watt graphic slave as described on page five to power this fantastic unit. In conjunction with our incredible 2 x 12 Horn Projector cabinet cat. no. 107/2H to give depth and power to your system this completed the beautiful set-up.

## STANDARD FACILITIES AVAILABLE ON BOTH DISCO UNITS

Four channels each with slider fader, bass and treble controls. A master fader, bass and treble control balance overall sound. A headphone monitor amplifier including volume control with cue before fade key-switches on the two gramophone and tape channel and a cue all switch enables one deck to be cued whilst the other is playing. The microphone channel has a special talk-over key switch which reduces the volume of the records and increases the volume of your microphone. An internal adjustment is provided to suit your individual requirements. Another unique

feature of the control panel are two slider switches, fixed internally on the two gramophone modules, this converts the modules to magnetic cartridge operation. Separate on/off cueing switches are supplied between each of the decks.

## PRE-AMP TECHNICAL SPECIFICATIONS FOR BOTH UNITS

All sensitivities based at 1KHz for 1 volt output into 5K ohms

Tape channel: 160mV to 3 volts  
Input impedance 140K ohms

Microphone channel: 8.5mV to 350 mV  
Input impedance 140 K ohms

Gramophone channel:  
Crystal: maximum sensitivity 500mv  
(Internally adjustable) Input impedance 1 meg ohms.

Magnetic: maximum sensitivity 7 mV  
Input impedance 50 K ohms

Monitor output maximum: 300 mW into 7.5 ohms

Signal to noise ratio on gramophone:  
- 65db Distortion: 0.1%  
Tone control response: Bass  $\pm 16$ db at 200 Hz.  
Treble  $\pm 16$ db at 10KHz

SIZE: W.84cms (33") D.51cms (20")  
H.22cms (9 1/2")

APPROX. WEIGHT: 22kg. (49lbs.)

## THE DELUXE CUSTOM DISCO UNIT

This must be the ultimate in disco sounds today. It has every facility any D.J. could possibly wish for. It comprises:-

A deluxe unit fitted with Pioneer belt driven decks and Shure magnetic cartridges. Goose neck lights and mike stand can be fitted as an optional extra. It is supplied complete with separate carrying case, waterproof cover and guarantee.

We recommend for this unit our powerful and reliable 200 watt transistor slave described also on page 7 which is ideally matched with our 1X15" bouncer horn cabinet (cat no. 114/4H) as described on page 8. Its interior is finished in matt black complete with waterproof cover.

## POWER HANDLING

Bass 100 Watts R.M.S.  
Treble 100 Watts R.M.S.

SIZE W.55cms (22") D.58cms (23")  
H.95cms (38")  
APPROX WEIGHT 51kg. (113lbs.)

## THE CUSTOM DISCO UNIT



Cat. No. 120

## THE DELUXE CUSTOM DISCO UNIT



## PROFESSIONAL CARTRIDGE MACHINE

A professional record and replay cartridge machine as used by professional D.J.'s and radio stations for music and personalized jingles.

Meets or exceeds all N.A.B. specifications. Normal operating speeds 7 1/2" I.P.S. Cue speed 15 I.P.S. 1 KHz - 150 Hz. Tone generators and sensors provide automatic fast cue operation with manual override. Papst outside rotor capstan Solenoid operated. Pull up and start mechanism for fast, one handed operation. Hinged top lid for access to heads and audio circuits. Socket provided for remote control working. Rear mounted switch enables cue tone oscillators to be switched off for recording of continuous background music cartridges.

N.B. This machine has been designed specifically for broadcasting standards and may wrongly appear expensive.

Prices on application.

**SIZES:** W.24cms (9 1/2") D.36cms (14 1/2")  
H.18cms (7")  
**APPROX. WEIGHT:** 14Kg. (30lbs.)



## ORANGE ACCESSORIES

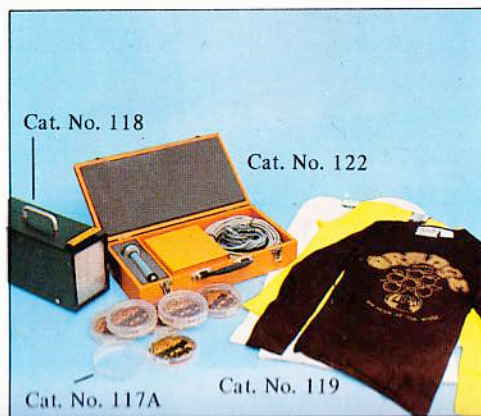
### ORANGE HYPERCON (ANTI-FEEDBACK) MICROPHONE KITS

The original Orange Hyper-cardiod Condenser Microphone was designed solely for our studios, but it was noticed its anti-feedback qualities were far superior to a conventional moving coil microphone. The result—an almost unbreakable mike designed for group use at low cost. The 'Hypercon' microphone has a built-in antipop filter and comes in a satin chrome finish. They are supplied in a single, double or four mike kit with coloured stems and a single power unit having inputs for one, two or four microphones. The power unit is connected to your amplifier by a simple jack to jack lead. The kits come complete in a vinyl covered wooden attache case, microphone(s), stand clips(s), jack lead(s), 10 meter microphone lead(s) and full guarantee.

Amazing Ultra-light weight Orange strings.

High powered white strobe light.

T-shirts with motif, available in white, yellow and brown.

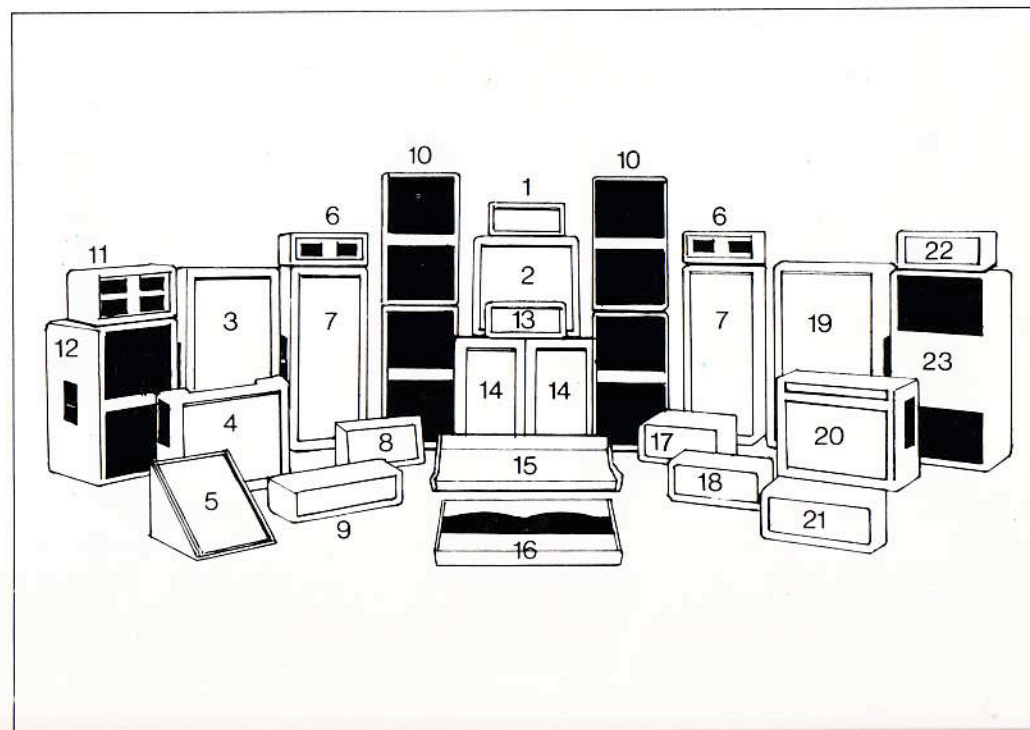


## INDEX TO ILLUSTRATION BELOW

1. 120 watt graphic valve amplifier. 112/120
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3. 8x10 cabinet 128
4. Super power combination amplifier 115
5. 1x12 wedge monitor 124
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7. 4x12 column cabinet. 106
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10. 1x15 E.V. bouncer horn cabinet. 114/4H
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13. 4-channel 120 watt graphic P.A. amplifier. 102
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| 2x12 horn projector cabinet        | 107/2H |
| 1x15 horn projector cabinet        | 127/2H |
| Ultra-light weight strings guitar. | 117A   |
| Super sensitive bass strings       | 117B   |
| High powered white strobe light    | 118    |
| Orange T-shirts.                   | 119    |
| Hypercon microphone kit.           | 122    |







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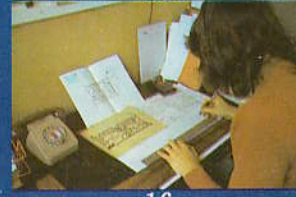
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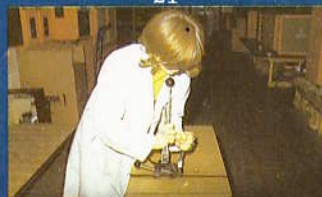
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OFFICIAL ORANGE DEALER.

NEWARK MUSICAL MERCHANDISE CO  
472 Broad St. - Newark 2, N. J.  
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# ORANGE

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