

International Amplifier Line User Manual

Common Features:

- Single channel all tube design
- Preamp dc heaters for low noise
- Straight signal path with simple tone stack
- Boutique capacitors and custom wound transformers
- Aluminum chassis
- Black Comet Vinyl with classic salt & pepper grill
- Low weight small size ultra portable
- Available as Head or 1x12" open back combo
- 1x10" open back combo available for low power versions only!

Design Notes:

These amps have a simple straight forward signal path with minimum tone stack attenuation. Types, brands and values of coupling and tone capacitors have been carefully selected; these have tremendous differences in tone and feel, often boils down to ones individual taste.

If you feel you need some adjustments give us a call and we will see what we can do.

Due to the small size we chose to use a solid state rectifier and get the natural sag feel through additional circuitry in the power supply.

Most of the output transformers are wound with a single 8 ohm tap for best direct coupling the audio to the speaker. Exceptions are the higher gain models Panama and Brixton.

Tubes have been selected for best overall sound and reliability. In these simple circuits type and brand of tubes can make a big difference in sound. Don't be shy to experiment with tubes, get your old stock RCA's, Mullard's, GE's etc.....out of the closet and find your individual favorite. Power amp tubes should be matched and the bias needs to be set correctly. Preamp tubes can be exchanged without any adjusting as long as the pin layout is compatible with the 12AX7 type.

Tip: For cleaner tones try a 12AY7 on V1 and/or a 12AT7 on V2

Same applies to speakers, we selected what we think is the best overall speaker within the output power range of each amp.

For your safety:

Make sure you turn your amp off when you switch tubes and be careful the tubes are very hot!! Do not touch tube sockets with fingers! Even after turning your amp off and unplugging it from the power outlet there could be enough voltage stored in the capacitors to give you a lethal electrical shock!

The Barcelona has capacitors mounted inside on the back chassis cover. The cover should be taken off only by an experienced Technician, on any amp!!



Palermo (formerly known as the Mojado)

- 18 watt 6V6 Class AB power amp (36 watt EL34 optional)
- JJ ECC83s 1st and 2nd gain stage
- JJ ECC83s phase inverter
- Volume and 4 position Schizo tone stack gain control
- 3 position Bright and High Low out put power switch
- Single 8 ohm speaker out
- Power amp input
- 1x10 combo Celestion G10 or Custom Eminence 8 ohm (not available on EL34 version)
- 1x12 combo Celestion G12H 8 ohm (Celestion V30 8 ohm for EL34 version)

The Palermo is filtered for a semi tight feel with a quick attack.

Schizo Control

The Schizo control sets the overall gain and tone structure. It consists of a resistor capacitor matrix and is the only attenuation in the circuit between the two gain stages and the power amp.

Pos. 1: low gain sparkle flat bass

Pos. 2: low/medium gain sparkle bass boost

Pos. 3: medium gain mellow

Pos. 4: high gain bright open

Volume Control

The Volume control comes rather quick and reacts more like a gain control past 9 o'clock, think of it in the spirit of the old "none master volume plexi amps"

The 18 watts are pretty loud and the minimal attenuation of the signal path does not give great control over volume.

Stand By, Hi - Low Power Switch

After you turned the amp on and let the tubes heat up a few minutes you have the choice to switch the amp off Stand by into the Hi or Low position. Hi has the full 18 watts (36 - EL34 model) available while Lo has only 9 watts (18W-EL34). The difference in loudness is not equivalent to half the power, maybe a third less. The amp will feel looser in the Lo position; readjust controls to your taste.

Power Amp Input

The power amp input gives you the option to use the Palermo as a power amp only. The Volume control sets the level. The Bright switch works but the Schizo control is out of the circuit and has no effect.

DIMENSIONS and WEIGHTS: Are subject to change anytime, Please measure *your* amp carefully if a Custom Case is being made. **Add ¼ inch for each, handle and rubber feet.**

18W Head:	7.50"	H	18.37"	W	7"	D	16 pounds
36W Head:	8.25"	H	18.37"	W	7"	D	20 pounds
1x10 combo:	15"	H	19.37"	W	10"	D	37 pounds 18W
1x12 combo:	16.50"	H	20.75"	W	10.50"	D	43 pounds 18W
1x12 combo:	20.75"	H	20.75"	W	10.50"	D	50 pounds 36W

Troubleshooting

Make sure you read and understand the safety instructions!! Repairs should be done only by knowledgeable Technicians!! Always make sure your Cables, Guitars, Effects and Extension Cabinets are working and hooked up correctly. If you think something is wrong with your Amp, play straight into the Amp with nothing else hooked up other than a Guitar. That way you make sure it is the Amp. If you own a combo unplug the internal speaker and hook up an external speaker cabinet to make sure it's only the amp which is faulty. For noise check the appropriate preamp tubes (refer to f). Tubes are delicate and have a limited live span depending on operating time, temperature and mechanical influences. 99% of all sound and noise problems come from preamp tube failure. We let our amps run for at least two days before we ship them to make sure that the tubes work properly but since they have glass housing and delicate little plates inside them it happened that they got damaged during shipping. Please don't feel discouraged. We don't manufacture tubes and can only retest them to make sure they're okay.

Fuses

To check the fuses, use an Ohmmeter to make sure they're blown because sometimes you can't see if they're blown. Only 3GA types are used.

The Main fuse for the Palermo 18W should be 1A slow blow. 2A slow blow for the 36W model (1A for 220-240 volt models).

The HT fuse should be 500mA slow blow in all models.

The HT fuse blows usually if your power tubes are bad to protect the power amp circuit from getting damaged. If the Main fuse blows it could be just a voltage peak from your power outlet. Put a new one in and see what happens. If it blows again give us a call.

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