

The PBF FLANGER by ADA



The **ADA Pedal Board Friendly FLANGER** is an all-analog flanger based on the renowned ADA FLANGER pedals produced in the late 1970s in Berkeley California. It is primarily designed for electric guitar and bass guitar, but can be used with other electronic musical instruments and in the recording studio. The PBF FLANGER delivers the unique tone, range and character of the original ADA designs, along with many new features. The PBF FLANGER now has a BASS switch which keeps the bottom end tight, distinct and smooth. The RANGE control is now tapered to make it easier to dial-in subtle vibratos, vocal wahs and staccato pulsing. The SPEED control has been expanded for faster and slower rates. The PBF has a smaller enclosure – conveniently the same foot print as the common die-cast enclosures that have become the norm for pedal boards. The PBF FLANGER is manufactured in California.

PBF FLANGER by ADA USER MANUAL

www.adaamps.com

Part Number 701423

Version 0.1

If your ADA product works, your pedal chain most likely has a problem. If you hear nothing, then there may be a problem with your individual unit. Please see “RETURNING UNITS FOR SERVICE” below on how to get an RA number.

2. What do I do if my product is not working?

If your product is not working we STRONGLY suggest that you run a series of quick tests to troubleshoot the unit (see above). They may sound very basic, but it can save you time in getting your unit working and you back to playing. If you are an international (non-USA) customer, you must contact your local dealer and/or your national distributor for repair. If you are in the USA and the unit truly does not work, email support@adaamps.com to get a Return Authorization (RA) number from us.

3. What do I do after receiving my RA number?

You will need to box your unit, write your Return Authorization (RA) number on the outside of the shipping box in large, bold lettering, and send it to the address supplied with the RA you received from us. You are responsible for shipping to ADA, so please track and insure your parcels. ADA cannot be held responsible for parcels that are lost or damaged in the shipping process. ADA cannot accept your shipment if there is no RA number written on the outside of the box.

SERVICE

If your unit requires service, please go to our website’s SERVICE page for information to help you find a solution to the problem you are having with your PBF FLANGER. We have provided you with a step-by-step troubleshooting procedure to get you back up and running if you are experiencing a simple problem.

SPECIFICATIONS

Input Impedance	500K Ohms
Output Impedance	1K Ohms
Analog Delay ICs (BBD)	Two separate 512-stage analog bucket brigade ICs
Power Requirements	9VDC to 12VDC at 150mA from AC adapter or pedal board supply DC POWER JACK: 2.1mm, center pin negative
CONTROL voltage range	0 to +10V
MANUAL CONTROL	delay range: 0.35mS to 15.3mS
SPEED CONTROL	sweep rate: 0.06 seconds (15Hz) to 30 seconds
LEVEL CONTROL	output level adjustment +/- 6dB
CONTROL PORT	Ring-Tip-Sleeve stereo 1/4" phone jack for expression pedals or control voltages of 0 volts to +10 volts
Shipping Weight	1 lb. (2.2Kg)
Shipping Dimensions	5.75 x 3.5 x 3.37 inches
Enclosure Dimensions	4.5 x 2.5 x 1.5 inches
Material	Powered-coated all-steel enclosure for better shielding

NEW FEATURES

- True Bypass with LED status indicator
- Output LEVEL trim
- BASS Guitar Contour Switch
- Small enclosure
- Powered by 9V to 12V at 150mA

FUNCTIONS

MANUAL	sets static delay time
RANGE	sets the delay time range of the SPEED
SPEED	sets the rate of the auto-sweep
THRESHOLD	adjusts the gate threshold of the delayed signal
LEVEL	output level adjustment of the flange effect
ENHANCE	sets the amount of regeneration which varies the intensity up to the point of self-oscillation
HARMONICS	adds or subtracts the delayed signal for mid or bass boost. EVEN is bass boost and mid scoop. ODD is hollow sounding with mid boost.
BASS	decreases the amount of ENHANCE at low frequencies to preserve a tight bottom
CONTROL	external voltage or an expression pedal port. Overrides the MANUAL control

RETURNING UNITS FOR SERVICE

If you still need to send in your ADA product for service, YOU MUST FIRST GET A RETURN AUTHORIZATION NUMBER (RA) BEFORE YOU SHIP TO OUR SERVICE CENTER. Items shipped to us without an RA, will not be accepted by our Service Center and will be returned to you by the shipper. You can get an RA number by first contacting us online at:

support@adaamps.com . You can also check online for additional information at www.adaamps.com/service

DO NOT SHIP YOUR PBF FLANGER TO OUR SERVICE CENTER BEFORE GETTING AN RA (Return Authorization Number) FROM US.

Ship to:

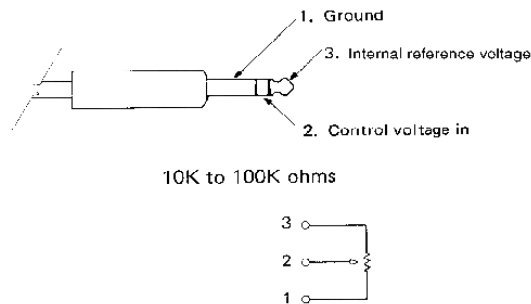
ADA Amplification
1170 Burnett Ave. Ste. N
Concord, CA 94520

WARRANTY

Your PBF FLANGER is warranted against defects in material and workmanship for a period of three-hundred and sixty five (365) days from date of purchase. This warranty is to the original owner and is non-transferable. During the warranty period, ADA or its agent will, at its sole option, repair or replace defective parts and make necessary repairs to the product which is defective at no charge. If the failure is the result of misuse, abuse, accident or misapplication, ADA has no obligation to repair or replace the failed product. ADA retains the right to make such determination on the basis of factory inspection. ADA will not be responsible for any speaker or device damaged by the FLANGER. This warranty remains valid only if repairs are performed by ADA or its agent and provided that the serial number on the unit has not been defaced or removed. This warranty is expressly in lieu of all other warranties either expressed or implied. This warranty gives you specific rights. You may have other rights that vary from state to state in the U.S.

VOLTAGE CONTROL PORT, rear panel

CONTROL: Ring-Tip-Sleeve stereo 1/4" phone jack for expression pedals or control voltages. Control Voltage jack is wired the same way as the original Flangers were wired, so the old CONTROL PEDAL A (as well as other expression pedals) work with the PBF Flanger. You can also input a voltage from 0 to +10 Volts to set the delay time. See the wiring diagram below.



TIPS

The PBF FLANGER sweeps "to the top" but not "thru-zero" by choice. Thru-zero flanging is useful for a full mix, but not for a guitar because the guitar signal drops out at the thru-zero point (or is substantially boosted) which is not musical sounding. ADA feels that if you want that effect, a Tremolo is a better way to achieve the volume level modulation.

The RANGE mixes the MANUAL and the SPEED voltages so you can adjust the range and position of the SPEED. Setting the RANGE fully counter clockwise eliminates the SWEEP and the MANUAL (or CONTROL PEDAL) has full control over the setting of the FLANGER delay time, from 0.35mS to 15.3mS.

The ENHANCE feeds back the delayed signal to the wet/dry mix to increase the intensity of the flanging effect to the point of highly resonant oscillation or "Darth Vader" sounds.

The HARMONICS switch in conjunction with an extreme ENHANCE setting can radically shape your flanging tone, especially when the SPEED is off (RANGE set fully CCW). By turning the RANGE very slightly CW and setting the SPEED to about 3 Hz, a very nice vibrato can be achieved. Moving the MANUAL control CW decreases the depth of the vibrato and detuning.

The THRESHOLD is an adjustable level gate that can drop out the delayed signal at low levels or be used to "turn on" the flange effect with the input signal amplitude. Playing heavily turns on the flanging effect, while playing lightly turns off the flanging effect.

TECHNICAL SUPPORT

1. What are some quick tests to troubleshoot my unit?

Sometimes a few quick tests at home can be the difference between thinking your unit is broken and getting it working properly. Here is a list of quick trouble-shooting steps to test your gear and unit. As basic as these sound please run all the tests.

- **Check simple signal chain:** Plug your cable from your guitar into your amp. If you have a direct connect tone go to step 2. If not you have a bad cable, guitar or amp.
- **Check 2nd cable:** Take your 2nd cable and switch it with the first cable. If you have sound, we now know both cables, your guitar and amp, work.
- **Check power:** Plug your amp into the same outlet that you're using to power your ADA product. If the amp turns on, then the outlet works. If not try another outlet to power your unit.
- **Check native ADA Signal Chain:** Plug the first cable from your guitar into your ADA product (input). Plug the 2nd cable between your ADA product (output) and into your amp. Make sure the ADA is plugged into a working power source. DO NOT insert it in a pedal chain, i.e., do not introduce any other pedals into the signal chain.