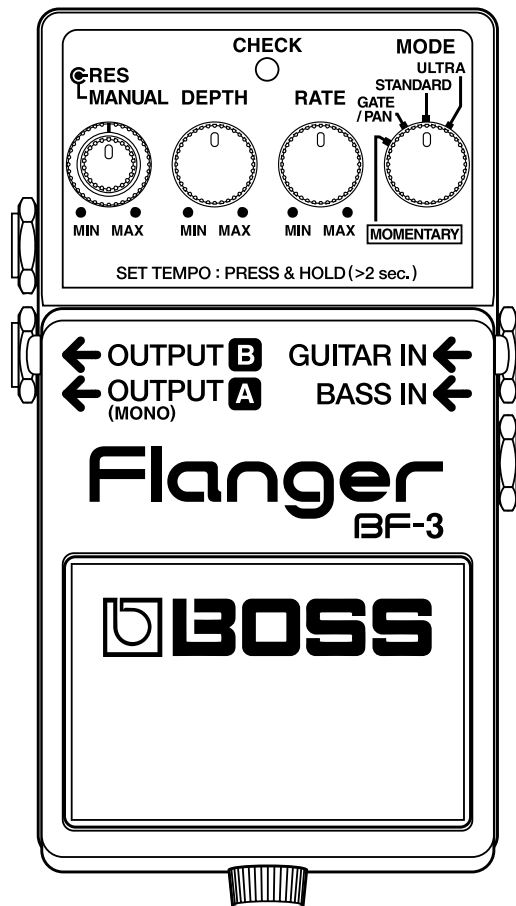


Flanger
BF-3(T)
BF-3A

SERVICE NOTES
Issued by RJA

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Identifying the BF-3(T)

The BF-3(T) exists in two types that have different circuit structures. In this Service Notes, the older type is called the **BF-3**, and the newer type is called the **BF-3A**. Both have **Flanger BF-3** inscribed on the pedal and appear at a glance to be completely identical, but they can be distinguished as indicated in the following table.

| | BF-3 | BF-3A |
|--|----------------------|-----------------------|
| Production number | Up through H**8559 | H**8560 and after |
| Style of component mounting on the circuit board | Single-side mounting | Double-side mounting |
| System version | Version 1.00 | Version 2.00 or later |

After identifying the type of the product being serviced, refer to the corresponding Service Notes for information on required parts and test methods.

| | |
|--------|---|
| BF-3: | SERVICE NOTES (#17058043E0) |
| BF-3A: | SERVICE NOTES 2ND EDITION (#17058043E1) |

This version of Service Notes is for the BF-3A.

Cautionary Notes

Before beginning the procedure, please read through this document. The matters described may differ according to the model.

User Data Cannot Be Backed Up

The setting for the sleep mode is saved on the Main Board even when the power has been switched off, but neither verification of its status (ON or OFF) nor backing up the setting is possible. When the Main Board has been replaced, the sleep mode is returned to its default (ON). For more information about the sleep mode, refer to **About Sleep Mode** (Owner's Manual, p. 14). No user data other than the setting for the sleep mode is saved.

Part Replacement

When replacing components near the power-supply circuit or a heat-generating circuit (such as a circuit provided with a heat sink or including a cement resistor), carry out the procedure according to the instructions with respect to the part number, direction, and attachment position (mounting so as to leave an air gap between the component and the circuit board, etc.).

Parts List

A component whose part code is ***** will not be supplied as a service part because one of the following reasons applies.

- Because it is supplied as an assembled part (under a different part code).
- Because a number of circuit boards are grouped together and supplied as a single circuit board (under a different part code).
- Because supply is prohibited due to copyright restrictions.
- Because reissuance is restricted.
- Because the part is made to order (at current market price).
- Because it is carried in electronic data on the Roland web site.
- Because it is a package or an accessory irrelevant to the function maintenance of the main body.
- Because it can be replaced with an article on the market. (battery or etc.)

Circuit Diagram

In the circuit diagram, "NIU" is an abbreviation for "Not in Use," and "UnPop" is an abbreviation for "Unpopulated." They both mean non-mounted components. The circuit board and circuit board diagram show silk-screened indications, but no components are mounted.

Specifications

BF-3: Flanger (BF-3A)

Nominal Input Level

-20 dBu

Input Impedance

1 M Ω

Nominal Output Level

-20 dBu

Output Impedance

1 k Ω

Recommended Load Impedance

10 k Ω or greater

Delay Time

0.3 mS–14.4 mS (GUITAR IN)

0.3 mS–6.3 mS (BASS IN)

LFO Speed

100 mS–18 S

Residual Noise

-95 dBu (IHF-A Typ.)

Controls

Pedal Switch

MANUAL Knob

RES (resonance) Knob

DEPTH Knob

RATE Knob

MODE Knob

Indicator

CHECK Indicator (Serves also as tempo and battery check indicator)

Connectors

GUITAR IN Jack

BASS IN Jack

OUTPUT A (MONO) Jack

OUTPUT B Jack

AC adaptor Jack (DC 9 V)

Power Supply

DC 9 V;

Dry battery 6F22 (9 V) type (carbon)/Dry battery 6LR61 (9 V) type (alkaline)

AC Adaptor (PSA-series: optional)

Current Draw

40 mA (DC 9 V)

* *Expected battery life under continuous use:*

Carbon: 3 hours

Alkaline: 10 hours

These figures will vary depending on the actual conditions of use.

Dimensions

73 (W) x 129 (D) x 59 (H) mm

2-7/8 (W) x 5-1/8 (D) x 2-3/8 (H) inches

Weight

435 g / 1 lb (including Battery)

Accessories

Owner's Manual (#5100021063)

Leaflet ("USING THE UNIT SAFELY," "IMPORTANT NOTES," and "Information") (#*****)

Dry battery /9 V type (6F22) (#*****)

* *The battery that was supplied with the unit is for temporary use intended primarily for testing its operation.*

Options

AC Adaptor PSA-series

* *0 dBu = 0.775 Vrms*

* *Printed matters will not be supplied after the end of the production. Then, download the electronic file from the Roland web site.*

* *In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.*

Circuit Diagram (Main, VR, LED, SW, Output B Board)

