

# BN SERIES PORTABLE MIXERS

Assembly Instructions and Parts List

**ATTENTION: FOR PROPER INSTALLATION AND OPERATION OF YOUR NEPTUNE MIXER, READ THESE INSTRUCTIONS BEFORE USING.**

## Description

Series BN Mixers are designed for economical mixing of small tanks and open head drums. The mixer can be easily mounted and the shaft angle can be easily adjusted for optimum mixing. The mixer can be conveniently moved from one container to another.



## Unpacking

When unpacking the mixer, check carefully for damage that may have occurred during transit. Check for missing parts.

## General Safety Information

**Warning:** These mixers are intended for specific functions. Please follow all instructions for safe and proper use.

- (1) Be certain that all mounting hardware and the coupling and propeller set screws are properly tightened prior to operation.
- (2) Clamp securely to rim. Be certain propeller is not touching side or bottom of tank.
- (3) Series BN Mixers are intended for use on open head drums or small tanks 100 gallons or less. Only the mildest of mixing can be accomplished in larger tanks.
- (4) Perform electrical connections and wiring in accordance with the electrical area requirements and local electrical codes.
- (5) Do not attempt to adjust mixer when mixer is operating, this could result in personal injury or damage to the tank and mixer.
- (6) Always wear required safety equipment including eye protection when observing mixer performance or when adding materials to a tank while the mixer is operating.



PSG  
22069 Van Buren Street  
Grand Terrace, CA 92313 USA  
P: +1 (215) 699-8700 F: +1 (215) 699-0370  
neptune1.com

Copyright 2018 PSG®, a Dover Company



# BN SERIES PORTABLE MIXERS

Assembly Instructions and Parts List

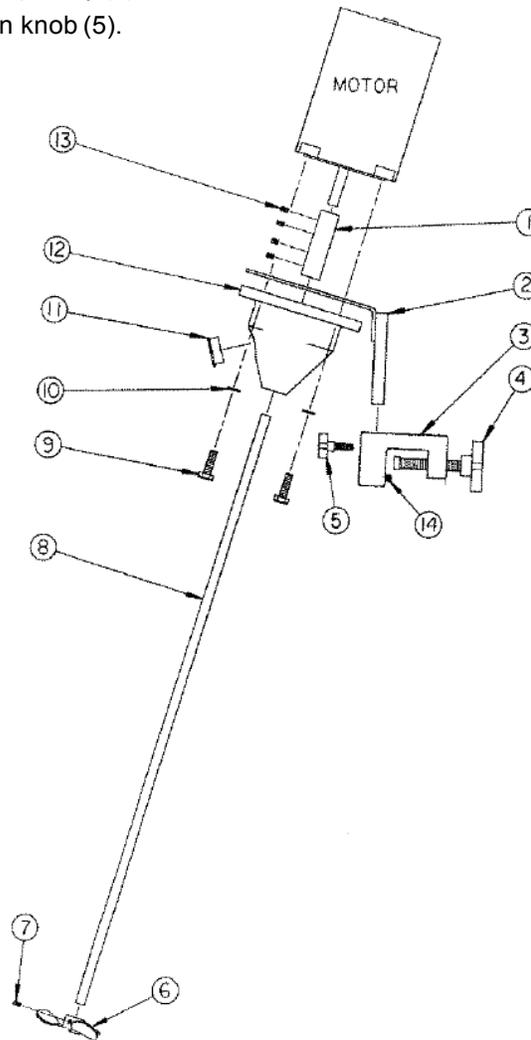
The Series BN Mixer is mostly pre-assembled. Attaching the shaft and propeller to the mixer, mounting the clamp to the tank and placing the mixer in the clamp is all that is required before operation.

## Assembly and Mounting:

- (1) Attach clamp (3) to tank using handwheel (14) on clamp.
- (2) Attach propeller to round end of mixer shaft.
- (3) Remove plastic cover (11) for access to couplings.
- (4) Insert end of shaft with flat into coupling and tighten setscrews.
- (5) Recheck all hardware for proper tightening.
- (6) Replace plastic cap.
- (7) Mount mixer to clamp by inserting motor mount assembly rod (2) into clamp body (3).
- (8) Position mixer and tighten knob (5).

## Adjusting the Mixer:

- (1) Mixer may be rotated left to right by loosening knob (5) and pivoting the unit. Re-tighten knob (5).
- (2) The mixer, as received, provides a shaft angle which should be adequate for most applications with this mixer.
- (3) The angle of the shaft can be adjusted. Loosen clamp knob (4) and turn the setscrews toward the tank wall to achieve a greater shaft angle. Do not exceed 15°.



## "BN" SERIES MIXER

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	002518	1	Shaft Coupling 1/2" x 1/2"
	002520	1	Shaft Coupling 5/8" x 5/8"
	002523	1	Shaft Coupling 5/8" x 1/2"
2	003245	1	Motor Mount Assembly
3	003242	1	Clamp Body
4	106672	1	Clamp Screw
5	106652	1	Pivot Knob
6	000514	1	Propeller 1/2" - 316SS
	000539	1	Propeller 5/8" - 316SS
7	100406	1	Setscrew 1/4-20 x 5/16" lg. - 316SS (Supplied with Propeller)
8	000507	1	Propeller Shaft 1/2" Dia. x 32" lg. - 316SS
	000563	1	Propeller Shaft 5/8" Dia. x 32" lg. - 316SS
9	101238	4	Hex Head Screw 3/8-16 x 1-1/4" lg.
10	100217	4	3/8" Lock Washer
11	102931	1	Plug
12	106670	1	Mixer Nose - Coupling Guard
13	106183	4	Setscrew 1/4-20 x 3/16" lg.
14	106698	2	Setscrew 5/16-18 x 1-1/4" lg.



PSG  
22069 Van Buren Street  
Grand Terrace, CA 92313 USA

P: +1 (215) 699-8700 F: +1 (215) 699-0370  
neptune1.com

Copyright 2018 PSG®, a Dover Company



a DOVER company

psgdover.com



## EC Declarations for Portable Mixers

---

Manufacturer:

PSG California

22069 Van Buren Street

Grand Terrace, CA 92313 USA

Director of Engineering: Chris Distaso

Signature:

Representative authorized to compile technical files in the European Community:

ALMATEC Maschinenbau GmbH

Carl-Friedrich-Gauß-Straße 5

D - 47475 Kamp-Lintfort Germany

General Manager: Rainer Wulf

Signature:

---

Product:

Neptune Portable Mixer Models: B, BC, BF, C, D, DT, E, F, H, HH, HAJ, HGS, HGL, JD, JG, JGR, JGF, L, RAB, RGT, PAM, PEM, PM Series Mixers

Date:

05/22/2019

Serial Number:

As Applicable

---

DECLARATION OF INCORPORATION *(Valid for mixers supplied without a motor)*

Neptune declares that the products listed above comply with the essential health and safety requirements relevant to the specific product as follows: All Neptune products listed above conform to the Machinery Directive 2006/42/EC: Part 1 of Annex I and comply with the relevant requirements of EN ISO 12100 Safety of Machinery - General Principles for Design - Risk Assessment and Risk Reduction.

This subassembly is incomplete and must not be put into service until the machinery into which it is to be incorporated has been declared in conformity with the provisions of Directive 2006/42/EC ("The Machinery Directive") and any other applicable Directives.

---

DECLARATION OF CONFORMITY *(Valid for mixers supplied with a motor)*

Neptune declares that the products listed above comply with the essential health and safety requirements relevant to the specific product as follows: All Neptune products listed above conform to the Machinery Directive 2006/42/EC: Part 1 of Annex I and comply with the relevant requirements of EN ISO 12100 Safety of Machinery - General Principles for Design - Risk Assessment and Risk Reduction, and DIN EN ISO 4871 - Declaration and Verification of Noise Emission Values of Machinery and Equipment. The supplied motor conforms to the 2014/35/EU - The Low Voltage Directive (*compliance exists from the motor manufacturer*).

This product **may not be used** in an explosive environment.