



OPERATING INSTRUCTIONS AND PARTS LIST



SERIES RGT BRIDGE MOUNT TYPE BULK CONTAINER MIXER 350 RPM

DESCRIPTION

The Neptune Series RGT gear drive mixer is designed for quick setup and mounting on top-entry plastic (IBC) totes. The mixer can be mounted directly onto the tote or an optional adjustable bridge type mounting bracket easily adapts the mixer to various manufacturers' totes.

SAFETY INSTRUCTIONS

Always follow these operating instructions fully. Failure to do so could result in serious bodily injury!

1. Do not touch moving parts or attempt to make adjustments while the mixer is operating!
2. Make certain the mixer is properly wired and grounded!
3. Always wear appropriate safety equipment including face and eye protection when removing the mixer or moving it to another tote!
4. Air motors are designed to be driven by compressed air only and under no circumstances be driven with any others gases!
5. Always disconnect and lockout the electric power or air supply before servicing the mixer!

MIXER ASSEMBLY *(see illustration on back page)*

1. Make certain that all hardware on the mixer is completely tightened before operating the mixer.
2. Mount the "L" brackets to each side of gearbox housing with the supplied screws (Fig. 3) and washers (Fig. 4). Tighten securely.
3. Place key (Fig. 6) on keyway of motor and place motor on flange of gearbox. Tighten motor with supplied screws (Fig. 7) and washers (Fig. 4).
4. Place supplied shaft key to keyway on shaft. Slide shaft from the bottom entry of the gearbox through to the top portion where recessed area on shaft is in line with set screws on top of gearbox. Tighten screws to recessed area on shaft.
5. The RGT gear reducer has been factory filled with lubricant prior to shipment and the following instructions are vital to the successful operation of your mixer gear reducer.

VENTING

During normal operation heat generated by the gear box will cause the air and the lubricant inside the unit to expand, and a vent plug is used to equalize the resulting pressure. This plug is shipped loose with gear reducer. To install, remove one of the pipe plugs on the top of the gear reducer and replace it with the vent plug.

INITIAL OIL CHANGE

The oil in a new RGT mixer speed reducer should be changed at the end of 250 hours of operation. (i.e. after 30 days at 8 hour per day or 10 days at 24 hour service).

SUBSEQUENT OIL CHANGES

Under normal operating conditions the gear reducer oil should be changed after every 2,500 hours of operation or every six months, whichever occurs first.

Under severe operating conditions (i.e. wide or rapid temperature swings, moist, dirty, or corrosive environment) it may be necessary to change oil at intervals of one to three months. Periodic examination of oil samples from the unit will help establish the appropriate change interval.

CHANGING OIL

When changing oil for any reason it should be remembered that oils of various types may not be compatible. Therefore, when changing to different oil it is recommended that the housing be completely drained and thoroughly flushed with a light flushing oil prior to refilling with the appropriate lubricant. The oil level should be rechecked after a short period of operation and adjusted, if necessary.

The chart on the other side of this page provides a list of suitable gear reducer lubricants.

Also refer to Mixer Safety Supplement NPT-10001-E-01

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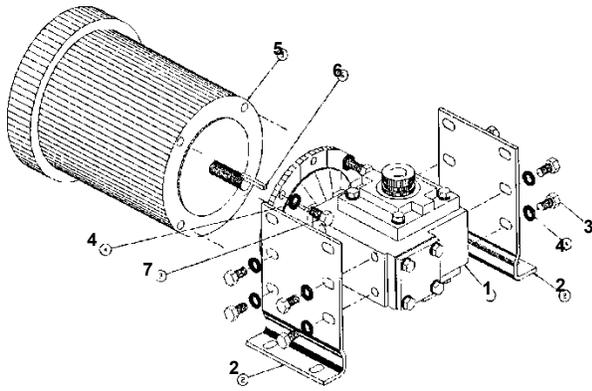


FIGURE NUMBER	QTY.	PART NUMBER	ITEM DESCRIPTION
1	1	106400	GEAR REDUCER
2	2	104414	"L" BRACKET
3	8	100641	3/8-16 X 3/4" LG. SCREW
4	12	100217	3/8" LOCK WASHER
5	1		MOTOR – CONSULT FACTORY
6	1	106589	3/16" SQ. KEY
7	4	100216	3/8-16 X 7/8" LG. SCREW
8	1	002875	SHAFT/FOLDING PROP ASSEMBLY

LUBRICANTS

The chart below lists appropriate lubricants for the Series RGT tote mixer gear reducer. The list includes various manufacturers' lubricants and their ranges of operation and temperatures.

For applications that involve severe ambient temperature extremes Neptune recommends MOBIL SHC629 lubricant.

Ambient Temperature	-30° to 15° (F)	16° to 50° (F)	51° to 110° (F)	111° to 165° (F)
Max. Operating Temp.	150° (F)	185° (F)	200° (F)	200° (F)
Viscosity @ 100° (F), SUS		1919 to 2346	2837 to 3467	4171 to 5098
ISO Viscosity Grade	320	460	680	1000
Compound with:	3% to 10% fatty or synthetic fatty oils or mild EP additives			
AGMA Lubricant No.		#7 Comp.	#8 Comp.	#8A Comp.
Cities Service Co.	CITGO EP Comp. 68	CITGO Cyl. Oil 400-S	CITGO Cyl. Oil 680-7	CITGO Cyl. Oil 680-7
Fiske Bros Refining	SPO-233	SPO-277	SPO-288	SPO-288
Gulf Oil Corp.	SL-460-E.P.	Transgear EP 460	Transgear EP 680	Transgear EP 800
Keystone Div.	KSL-365	KSL-366	K-600	K-620
Mobil Oil Corp.	SHC 629	Mobil 600W	Mobil 600W Super	Mobil Extra Hecla
Shell Oil Corp.	Omala 68	Omala 460	Omala 680	Omala 800
Sun Oil Corp.	Sunep 1050	Sunep 1110	Sunep 1150	Sunoco Gear Oil 8 AC
Texaco, Inc.	Meropa 68	Vanguard Cyl. Oil 460	Honor Cyl. Oil 680	650T Cyl. Oil 1000
American Lub., Inc.	SHC 9065	Ind. Gear Oil 140	AGMA #8 Gear Oil	AGMA #8 Gear Oil
Chevron	NL Gear Comp. 100	NL Gear Comp. 460	NL Gear Comp. 680	NL Gear Comp. 1500

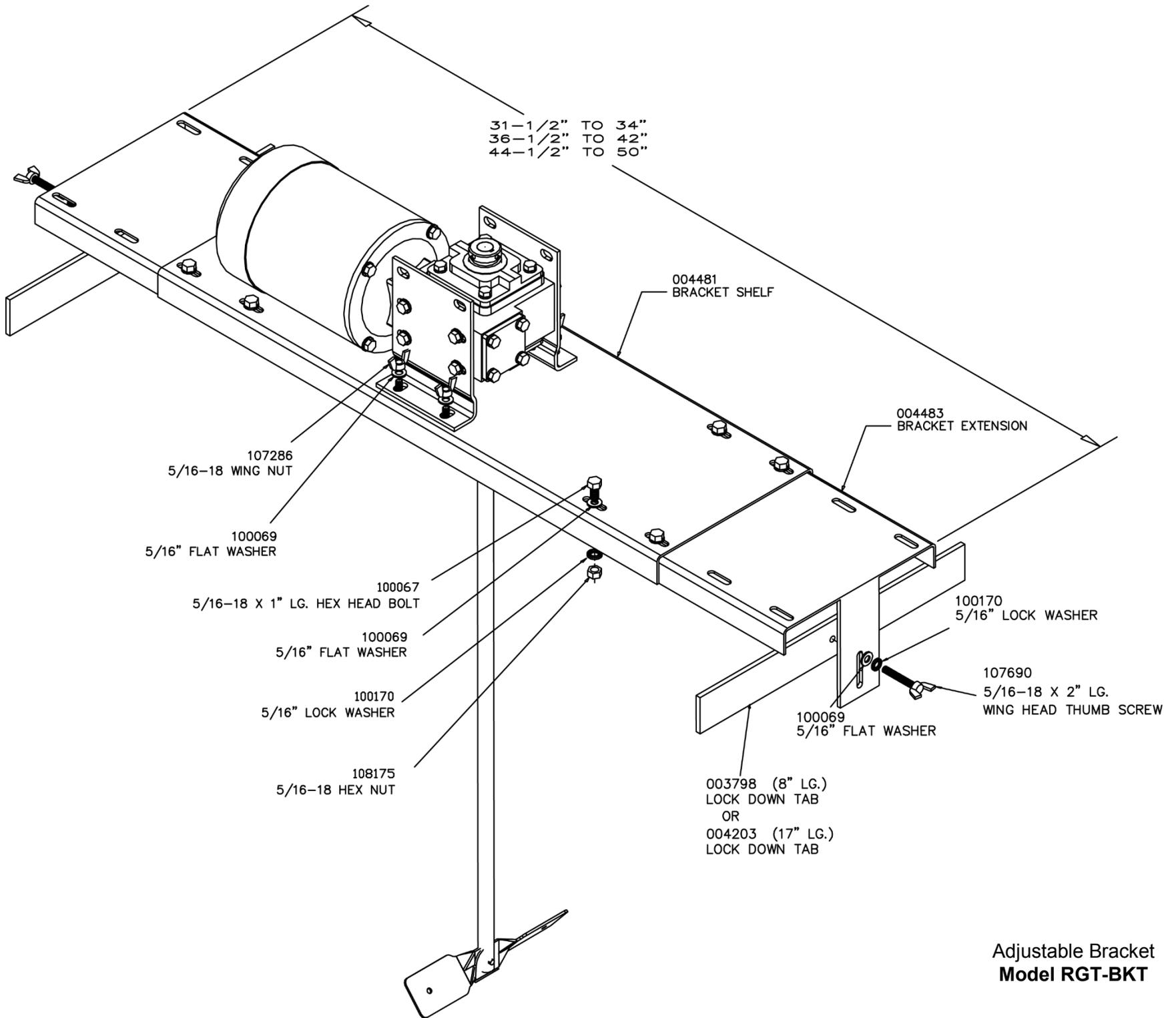
WARRANTY

Neptune Mixers are warranted for material and workmanship. If the mixer has been properly selected for the application and is properly installed Neptune warrants the purchaser of this product for a period of twelve months from the date of first use or eighteen months from shipment, whichever occurs first, that this product shall be free of defects in material and/or workmanship as follows:

1. Neptune will replace, at no charge, any part that fails due to a defect in material and/or workmanship during the warranty period, F.O.B. our factory, Grand Terrace, California. To obtain warranty service, you must forward the defective parts to the factory for examination, freight pre-paid.
2. This warranty period does not cover any product or product part which has been subject to accident, misuse, abuse or negligence. Neptune Mixer Company shall only be liable under this warranty if the product is used in the manner intended by the manufacturer as specified in the written instructions furnished with this product.

Any express warranty not provided in this warranty document, and any remedy for breach of contract that, but for this provision, might arise by implication or operation of law, is hereby excluded and disclaimed. Under no circumstances shall Neptune be liable to purchaser or any other person for any change for labor, repairs, or parts, performed or furnished by others, nor for any incidental consequential damages, whether arising out of breach of warranty, express or implied, a breach of contract or otherwise. Except to the extent prohibited by applicable law, any implied warranty of merchantability and fitness for a particular purpose are expressly limited in duration to the duration of this limited warranty.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitation on how long any implied warranty lasts, so the above limitations may not apply to you. This warranty gives you specific legal rights, and you may have other rights, which may vary, from state to state.



Adjustable Bracket
Model RGT-BKT