



ROD ROTATOR RETROFIT KITS

1165 Rod Rotators and 4033 Rod Rotators

PURPOSE

The purpose of this document is to explain the differences in the retrofit kits. This document will explain why each kit is necessary and what it is used for. The different designs between the companies doesn't allow for a straight conversion so having the right supplies on hand will make the process go quicker and smoother.

WSI 1165 Rod Rotator Retrofit Kit

(Part # 4800-1165-500)

This kit's purpose is to convert a WSI 1164

Contents of this kit include:

Quantity Included	Name	Part #	Diagram #
1	1165 Worm Gear*	4800-1165-004	#3
1	1165 Actuator Ratchet Body Complete	4800-1165-017	#15
1	1165 Backstop Nut	4800-1165-008	#8
2	1165 Pro-Torque One Way Bearing	4800-1165-025	#9
1	1165 Pro-Torque Drive Shaft *	4800-1165-012	#13
1	19/32" External Retainer Ring (Snap-Ring)	4800-1165-015	#18

*To retrofit a WSI 1164 SG replace with the following (Part # 4800-1165-550)

1	1165 SG Worm Gear	4800-1165-213	#3
1	1165 SG Pro-Torque Drive Shaft	4800-1165-212	#13

To retrofit an NOV T-164 we will use WSI 1165 Rod Rotator Retro Fit Kit intended for NOV products
(Part # 4800-1165-501)

This kit's purpose is to convert an NOV T-164

Contents of this kit include:

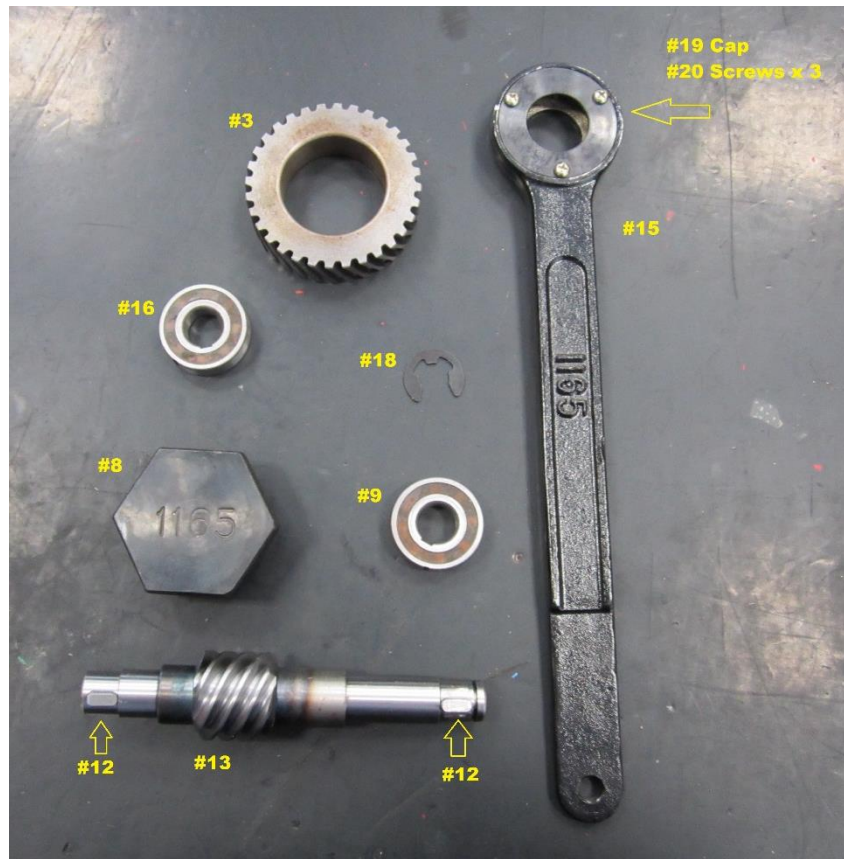
Quantity Included	Name	Part #	Diagram #
1	1165 Worm Gear*	4800-1165-004	#3
1	1165 Actuator Ratchet Body Complete	4800-1165-017	#15
1	1165 Backstop Nut	4800-1165-008	#18
2	1165 Pro-Torque One Way Bearing	4800-1165-025	#9
1	1165 Pro-Torque Drive Shaft *	4800-1165-012	#13
1	19/32" External Retainer Ring (Snap-Ring)	4800-1165-015	#18

*To retrofit an NOV T-164 SG replace with the following (Part # 4800-1165-551)

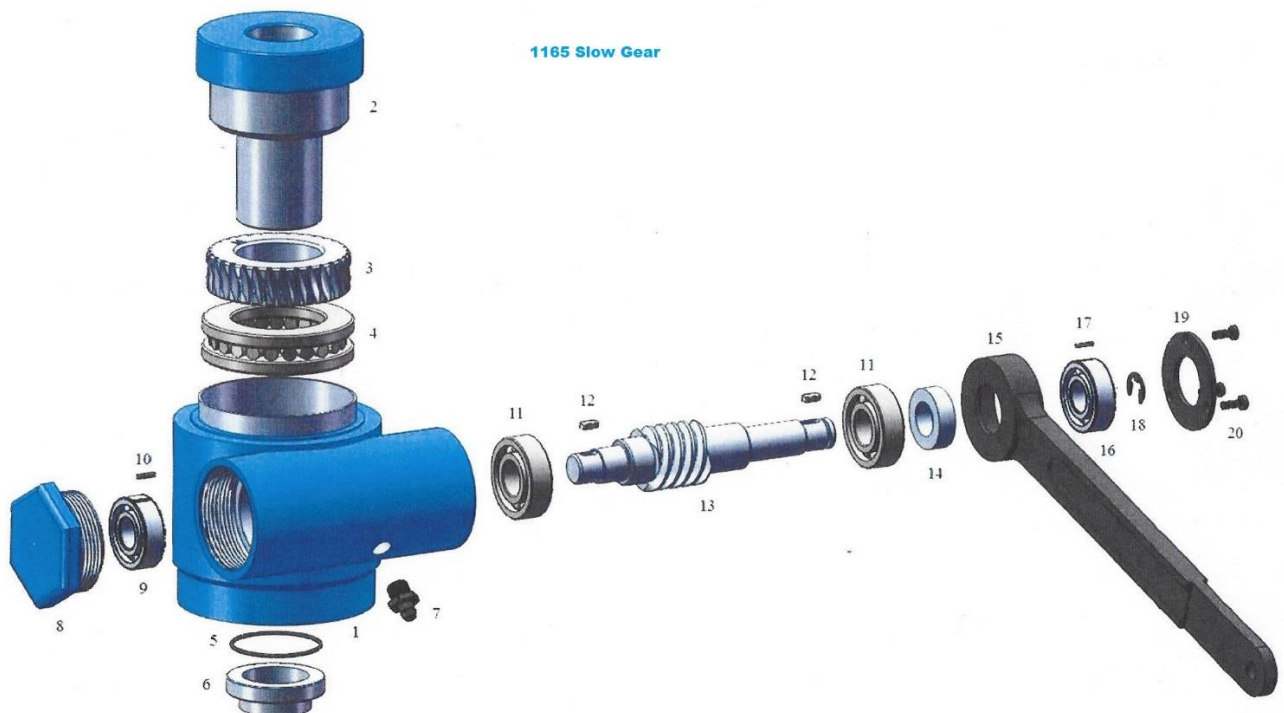
1	1165 SG Worm Gear	4800-1165-213	#3
1	1165 SG Pro-Torque Drive Shaft	4800-1165-212	#13

The only difference between these two kits is the backstop nut. Due to different threads, the backstop nuts are not interchangeable like the other parts in the retrofit kit.

1165 Rod Rotator Retrofit Kit



1165 Rod Rotator Diagram



WSI 4033 Rod Rotator Retrofit Kit

(Part # 4800-4033-500)

This kit's purpose is to retrofit a WSI 3302 Rod Rotator

The kit includes the following:

Quantity Included	Name	Part #	Diagram #
1	O-Ring (Large) Body, 3302 Rod Rotator (#348)	4800-4033-006	#18
1	O-Ring (Small) Pillar Post (#228)	4800-4033-003	#5
1	"RH" 4033 Backstop Nut	4800-4033-008	#8
2	4033 One Way Bearing	4800-4033-025	#9
1	4033 Worm Drive Shaft*	4800-4033-012	#12
1	4033 Actuator Ratchet Body	4800-4033-017	#17
2	15/16" External Retainer Rings (Snap Rings)	4800-3302-015	#14

*To retrofit a WSI 3302 SG replace with the following (Part # 4800-4033-550)

1	4033 SG Worm Drive Shaft	4800-4033-212	#12
---	--------------------------	---------------	-----

To retrofit an NOV T-302, use the WSI 4033 Rod Rotator Retro Fit Kit intended for use with NOV (Part # 4800-4033-501)

This kit's purpose is to retrofit an NOV T-302 Rod Rotator

The kit includes the following:

1	O-Ring (Large) Body, 3302 Rod Rotator (#348)	4800-4033-006	#18
1	O-Ring (Small) Pillar Post (#228)	4800-4033-003	#5
1	4033 Worm Gear*	4800-4033-004	#3
1	"RH/4033" 4033 Backstop Nut	4800-4033-008	#8
2	4033 One Way Bearing	4800-4033-025	#9
1	4033 Worm Drive Shaft*	4800-4033-012	#12
1	4033 Rod Rotator Ratchet Body	4800-4033-017	#17
2	15/16" External Retainer Rings (Snap Rings)	4800-3302-015	#14

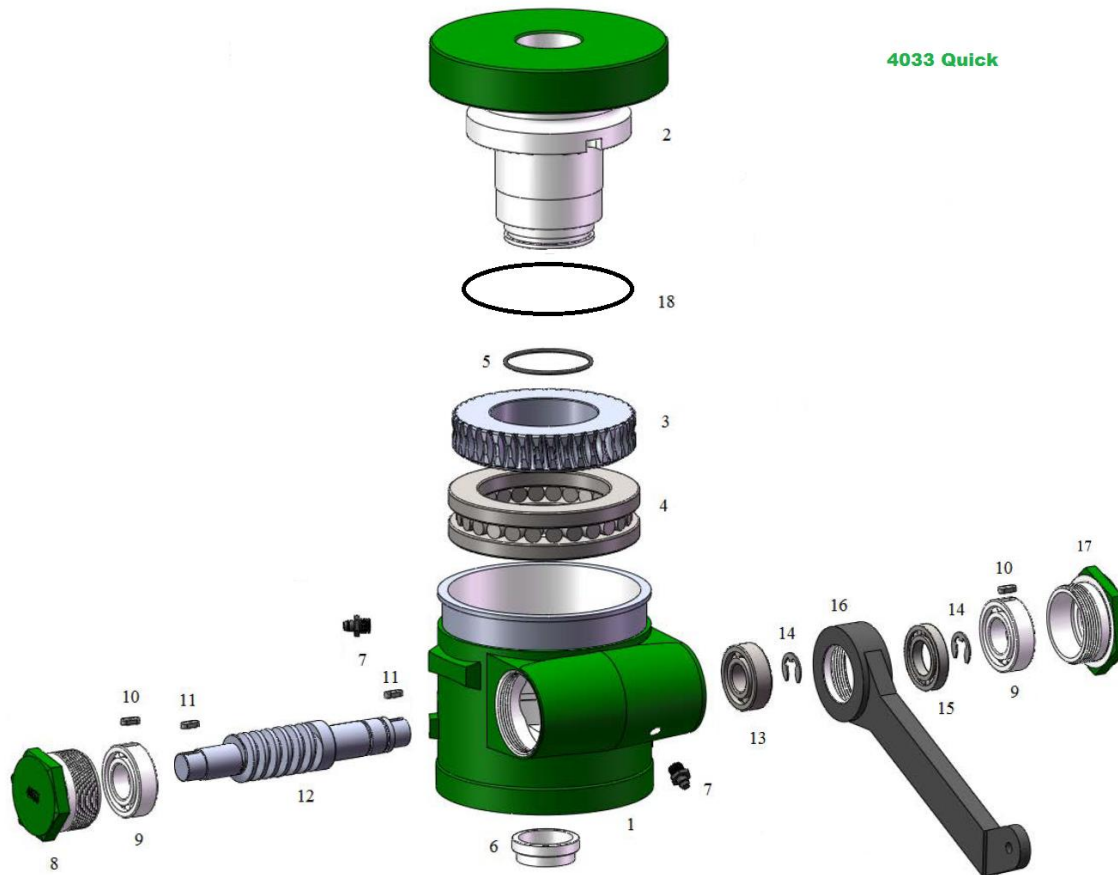
*To retrofit an NOV T-302 SG replace with the following (Part # 4800-4033-551)

1	4033 SG Worm Gear	4800-4033-213	#3
1	4033 SG Worm Drive Shaft	4800-4033-212	#12

To retro fit an NOV Rod Rotator, extra parts will be needed to ensure the rod rotator is functioning properly after it's rebuilt. The difference in designs between the WSI 3302 and the NOV T-302 necessitates the additional parts in the Retrofit kits. Our 4033 worm drive shaft is not compatible with an NOV worm gear, so when retrofitting an NOV rod rotator a WSI 4033 Worm Gear is required. The backstop nut provided in the NOV kit must be marked on top with "RH/4033"; this is to ensure compatibility with the NOV rod rotator body. Older style backstop nuts marked only with "RH" on top won't work with the NOV rod rotator body. Both backstop nuts are compatible with WSI 3302 Rod Rotator bodies. Ratchet Caps must be marked with "4033" to be compatible with NOV rod rotator. All other pieces work with both types of rod rotators.

** 3302 and 4033 Worm Gears are identical and can be interchanged as need. When retrofitting a WSI 3302, verify worm gear and worm drive shaft must have matching speeds.

4033 Rod Rotator Diagram



NOV Backstop and Ratchet Body



WSI 3302 Retrofit Kit



NOV T302 Retrofit Kit

