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## **Rolled Goods Manipulator (RGM) Instruction Manual**



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**RGMIMAN 4/14/21-MRP**



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**WARNING:** Exceeding forklift limitations can result in serious injuries or death.

**WARNING:** Improper or careless use can result in serious personal injury or death.

**WARNING:** A loose RGM attachment on forklift tine(s) can result in serious injury or death. The safety locking chain must be secured to the forklift during use.

**WARNING:** Never leave elevated rolled goods unattended.

### **NOTE:**

The end-user is solely responsible for confirming product design, use and maintenance comply with laws, regulations, codes and mandatory standards applicable to the jurisdiction in which the product is used.

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## **SAFETY CONSIDERATIONS:**

While, Beno J. Gundlach Company strives to identify all foreseeable hazards associated with the use of the RGM products, material handling is dangerous. No owner's manual can identify every possible risk. Ultimately, the best way to prevent injury is to apply sound judgment whenever using a Rolled Good Manipulator (RGM).

1. Upon initial delivery, thoroughly inspect the RGM for damage that may have occurred during shipment.
2. Before using the attachment contact the forklift manufacture and request:
  - a. Written approval their forklift has the proper lifting and use capacities to be used in conjunction with the RGM.
  - b. A proper forklift data label that identifies new weight and load capacities of the forklift and attachment together. **DO NOT use the RGM until your forklift is properly labeled.**
3. Inspect your RGM in its entirety before each use to insure proper working condition.
4. Before attaching the RGM, inspect your forklift to insure proper working condition.
5. Ensure the RGM locking nut and bolt are tightened properly to prevent the attachment from slipping on the tine(s).
6. Ensure the safety locking chain is secured properly to the forklift.
7. When beginning work, first lift the rolled good a few inches off of the ground and inspect the load. Ensure there is no load swing or movement of the RGM base. If there is movement, stop and secure the RGM properly before proceeding.
8. Follow your facility or work site rules governing use of forklift attachments.
9. Do not cover or remove any label on the RGM or on your forklift. Do not use the RGM unless all labels can be clearly read.
10. Do not use the RGM to push items. Only use the RGM as proscribed in Instructions for Use.
11. Only use the RGM on level, even and firm ground.
12. Always lower your load before exiting the forklift.
13. Never, under any circumstances, modify this product in any way. Modification will void the limited warranty and may make the RGM unsafe to use.

## **LABELING:**

The product should be labeled as shown in the diagram below. Replace any label that is damaged, faded, torn or not easily readable. Product labeling is subject to change without notice. Therefore, your unit as delivered may be labeled differently. Make sure that your written records include details and photos of every label applied to your RGM.

<b>MANUFACTURER ADDRESS</b>	BENO J GUNDLACH CO, 211 North 21st St. Belleville, IL 62222, USA, (618) 233-1781
<b>TYPE / MODEL #</b>	FORK MOUNTED RUG POLE / RGM-COMBO
<b>ATTACHMENT WEIGHT / HCG</b>	332 LB (151 KG) / 47 in (1194 mm)
<b>ATT. EFFECTIVE THICKNESS</b>	<b>FORK LENGTH (in/mm)</b>
<b>ATTACHMENT CAPACITY</b>	1,800 LB (816 KG)
<b>REFERENCE RECORD #</b>	8122
<b>ATTACHMENT SERIAL #</b>	00151
<b>CAUTION:</b>	This capacity rating <u>DOES NOT</u> represent the capacity of the forklift with this attachment mounted on it. <u>SEE FORKLIFT DATA LABEL</u>
Professional Forklift Engineering Svcs, LLC, Mt Pleasant, SC, USA, 843-532-6469 <a href="http://www.forkliftcapacitycalculator.com">www.forkliftcapacitycalculator.com</a> Remove paper backing to reveal adhesive surface and place this label on the attachment.	

## **SPECIFICATIONS:**

1. RGM-900 and RGM-SO-900 models are designed to lift 6'7" (2 meter) rolled goods from horizontal to vertical and vise-versa without touching the product.
2. RGM-COMBO and RGM-SO-COMBO models are designed to lift 12' (3.66 meter) rolled goods from horizontal to vertical and vise-versa without touching the product.

Note: The "SO" designation in the item name identifies the In Cab Release feature.

	<b>RGM-900 RGM-SO-900</b>	<b>RGM-COMBO RGM-SO-COMBO</b>
Length	8'6"	11'3"
Width	6"	18"
Weight (lbs.)	115	330
Pole Feed	5'2"	8'
Pole Size	2.5"	2.5"
Capacity (lbs.)	900	1,800
Inside Height	*14'8"	*16'3"

\*Ceiling height is with a forklift without a backrest guard. Height required will vary depending on your specific forklift.

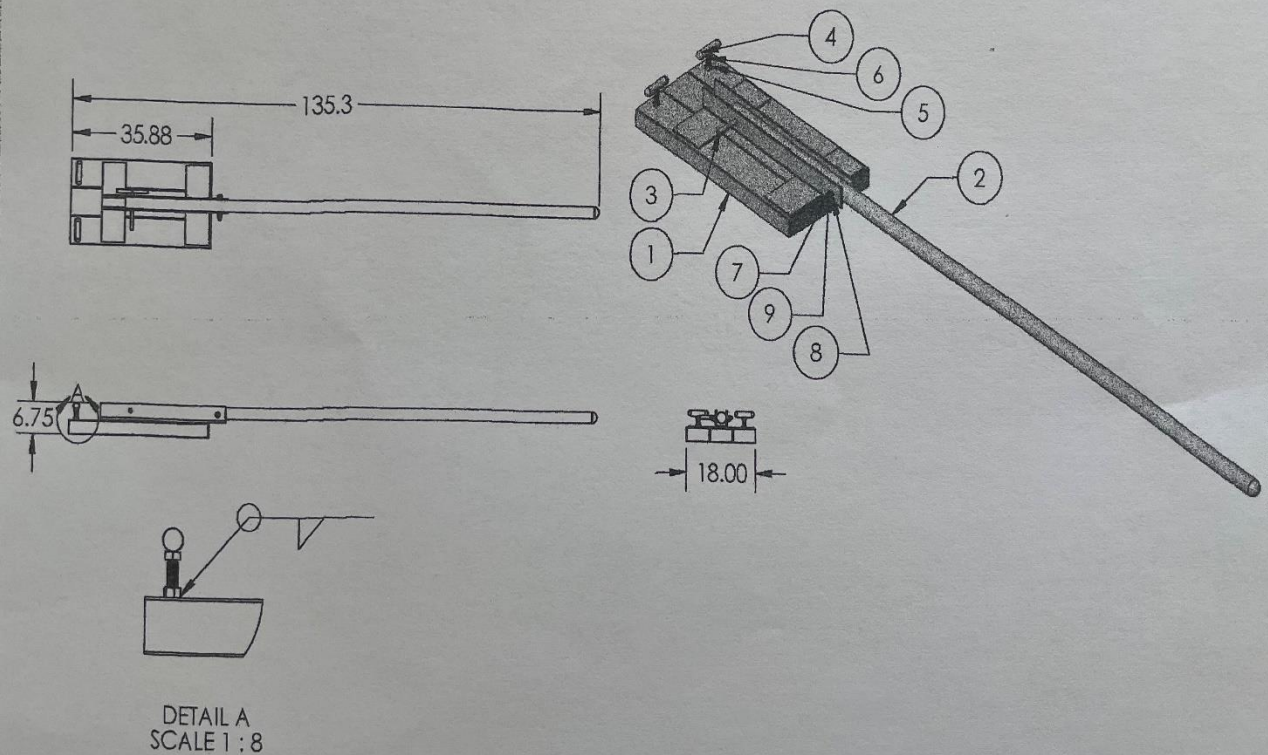
Technical drawing of a Fork Lock Assembly. The main view shows a side elevation of the assembly with callouts 1 through 10. Callout 1 points to the Fork Channel, 2 to the Fork Box, 3 to the Lock pin, 4 to the Fork Lock Bolt Assembly, 5 to the Fork Lock Bolt, 6 to the Locknut, 7 to the Flat washer, 8 to the Weld Nut, 9 to the Fork lock bolt assy, and 10 to the Baseplate. A detail view labeled 'DETAIL B' shows a cross-section of the Fork Lock Bolt Assembly (4) and the Fork Lock Bolt (5) with a scale of 1:12. A note indicates 'TYP BETWEEN TUBE AND PLATE'. A callout for the Fork Lock Bolt Assembly (4) specifies '2 1/2" O.D. x 1/4" PIPE, DOM 1026 (MIN Fy = 75 KSI)'.

ITEM NO.	PART NUMBER	QTY.
1	Fork Box, HSS 6x2x1/4	1
2	Top Channel, HSS 4x3x1/4	1
3	Lock pin	1
4	2 - 1/2" O.D. x 1/4" PIPE, DOM 1026 (MIN Fy = 75 KSI)	1
5	1/2"-13 HEX BOLT, 4", GRADE 8	1
6	1/2"-13 Locknut	1
7	1/2" Flat washer	2
8	7/8"-9 Weld Nut	1
9	Fork lock bolt assy	1
10	Baseplate_TCV1, Plate, 3/16"	2



## RGM-COMBO MATERIALS:

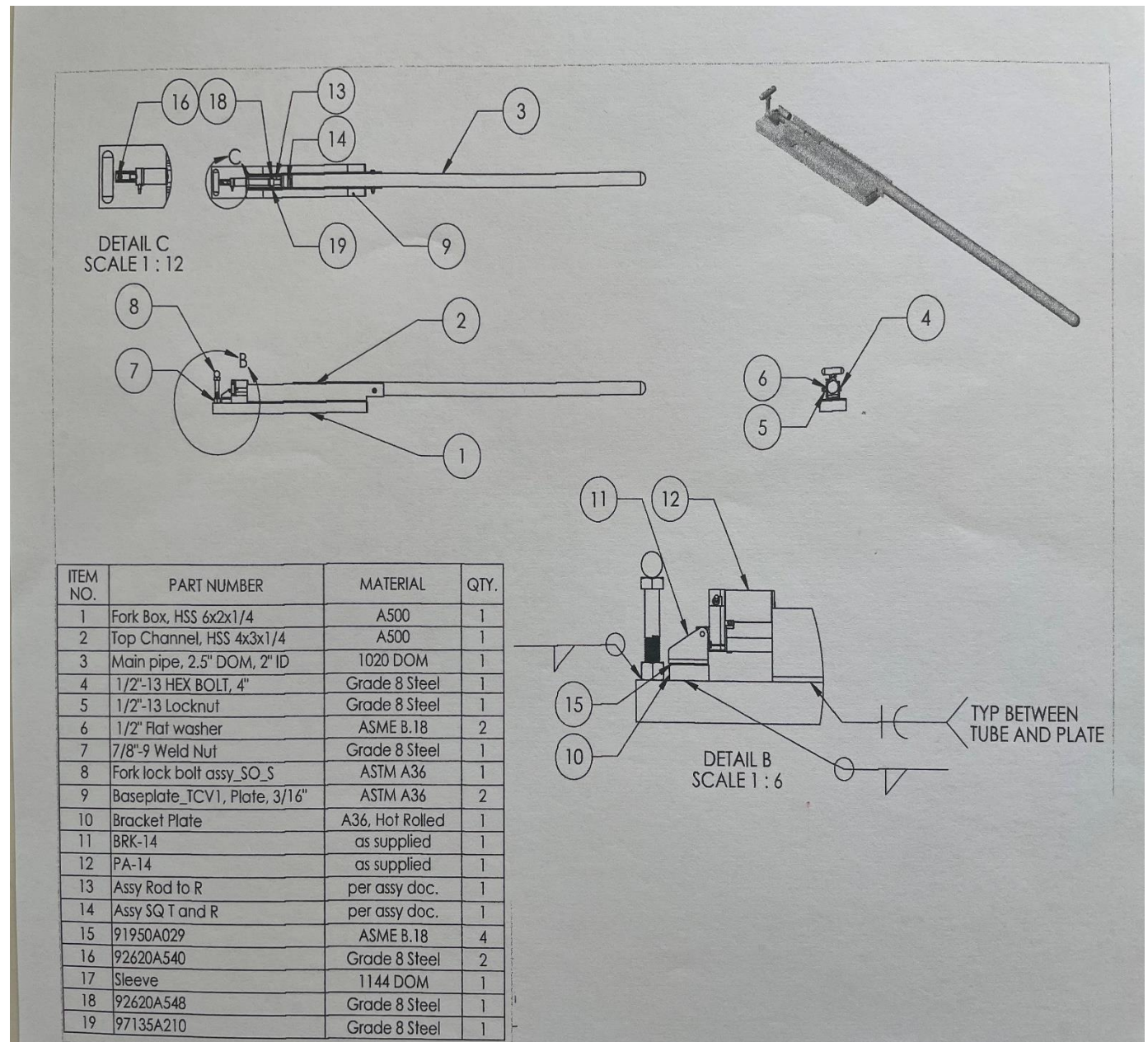
ITEM NO.	PART NUMBER	DESCRIPTION	Material	QTY.
1	Fork Frame	FORK BASE FRAME ASSY		1
2	Pipe	PIPE ASSY, 2.5" OD 1144	ASTM A311 CLASS B	1
3	Lock pin_v2	LOCK PIN, V2, .75" OD	ASTM A36	1
4	Top Handle_Lock bolt	TOP HANDLE, .75" OD	ASTM A36	2
5	94895A035	5/8-11 Hex Nut, Grade 8	ASTM A563	2
6	HH80620500	5/8-11 Bolt, Grade 8	ASTM A490	2
7	HH80750450	3/4-16 Bolt, YELLOW ZINC, 4.5", Grade 8	ASTM A490	1
8	WFBELZP0075	3/4" Flat Washer	ASTM F436	2
9	NA 1942HYZ075	3/4-16 Nut	ASTM A563	1





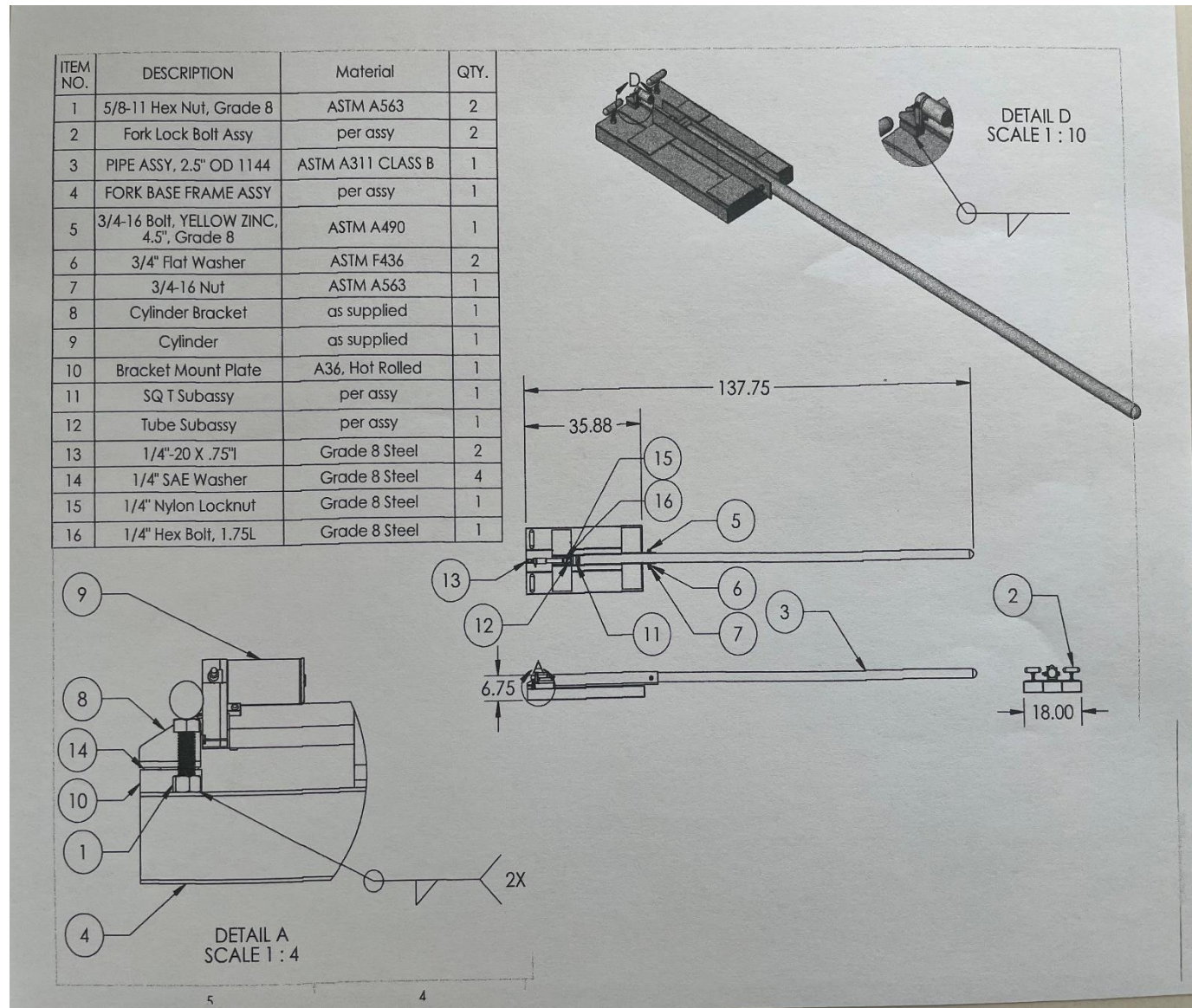
## **RGM-SO-900 MATERIALS:**

Note: The "SO" designation in the item name identifies the In Cab Release feature.



## **RGM-SO-COMBO MATERIALS:**

Note: The "SO" designation in the item name identifies the In Cab Release feature.



## **INSPECTIONS:**

### **Initial Inspection**

Before using the RGM for the first time, make a written record of it's appearance. Describe the condition of the frame, pole, bolts, pins base, rails, and all other parts supplied in the material list pages of this manual that applies to your specific RGM model. Take photographs of each item and add them to your record. Take photographs of all labels on the unit and on your forklift. Describe where each label is so that it is recorded for others to review and locate easily. This will establish "NORMAL" conditions for use. When conducting your normal inspection, before every use, compare your notes to the prior time the unit was used. This will help in determining if a part is in "NORMAL" condition. Do not use the RGM if anything is not in "NORMAL" working condition, as noted before your first use. Cosmetic changes, like paint, do not constitute changes from normal condition.

### **Before Each Use Inspection**

1. Check the surface of the RGM for dirt and other matter.
2. Examine hardware and fasteners, including nuts, bolts, pins actuators, batteries, electronic controls, wires, and chains. Examine the base plate welds and the pole for excessive wear, corrosion or metal fatigue. Should there be any rust or corrosion, use a metal brush and cleaner to remove. Occasionally use a clear coat spray to seal the pole from corrosion, if desired.
3. Check all labels. Replace any that can not be read clearly.

NOTE: While the RGM has been engineered for approximately 100,000 life cycle uses (each lift is one cycle), the longevity of your RGM will be determined by on how you use the attachment and how well it is maintained. To prolong the life of your RGM, make sure that the pole is always fully inserted into the rolled good.



## **INSTRUCTIONS FOR USE:**

**WARNING:** Improper use or exceeding maximum capacities may result in product failure, serious injury or death. DO NOT exceed maximum weight limits for any RGM product.

### **Capacities**

1. The RGM-900 has a maximum weight capacity of 900 lbs. / 408.2 kg. The maximum supported length of rolled product is 6' 7" / 2.00 meters.
2. The RGM-COMBO has a maximum weight capacity of 1800 lbs. / 816.4 kg. The maximum supported length of rolled product is 12' / 3.65 meters.
3. All RGM models are engineered for approximately 100,000 life cycle uses.

### **Loading**

Fork tine(s) MUST be fully inserted into the fork tube and the fork tube lock bolt must be secure. The safety locking chain must be used and secured to the forklift when in use. Make sure the pivot locking pin is in the locked position when transporting product. Ensure the pole is fully inserted into the rolled product.

### **Operation**

1. RGM-900: To set rolled product vertically from a horizontal position the pivot locking pin must be removed. To remove, place your foot on the pole to provide sufficient pressure to relieve binding and allow easy removal of the locking pin.
2. RGM-COMBO: To set rolled product vertically from a horizontal position the pivot locking pin must be removed. To remove, angle the forks so the pole sits firmly in the receiving channel. Adjust the fork angle to relieve binding and allow easy removal of the locking pin.
3. RGM-SO In Cab Release Models: Adjust the angle of the fork(s) to relieve any binding on the locking pin. If not, the pin will not release or will cause unnecessary friction and wear to the gears. Once fork angle is set correctly, press button A then button B on the remote control switch.
4. To lower rolled product back to horizontal, simply reverse the above procedures. In all cases, moving the forklift forward and backward while lifting is necessary to facilitate smooth lift and lowering.

## **MAINTENANCE:**

Operators should develop and use a maintenance program for your RGM to insure the product functions properly and is adequately maintained. The OSHA “General Industry” standard for “Powered Industrial Trucks” (29 CFR 1910.178) provides recommended maintenance procedures. The following steps should be utilized in conjunction with those procedures. Only trained, authorized personnel or certified contractors should perform your inspections, maintenance and repair work.

**NOTE:** The operator is responsible for training employees to use, inspect and maintain the RGM.

### **Maintenance Steps**

1. Tag the unit “OUT OF SERVICE.”
2. Remove dirt or other debris from all surfaces.
3. Conduct a “BEFORE EACH USE” inspection. If excessive wear, damage or corrosion is found, DO NOT use the product until repaired and returned to the “NORMAL USE” condition.
4. Maintain a dated written record of all repairs, adjustments and or replacements.
5. Performing all necessary adjustments and repairs is required; however you should NEVER modify an RGM.

**NOTE:** The reader should understand the significant difference between necessary adjustments and repairs, and modifications.

**ADJUSTMENT** is a simple correction that restores the device to normal condition, such as tightening a loose bolt or removing dirt from the base unit.

**REPAIR** is the removal of worn parts and installing a manufacturer approved replacement part.

**MODIFICATION** is a change that alters the RGM from its normal condition, like bending a bolt, rail or removing a part or several parts. Modifying the RGM can make it unsafe to use and will automatically void the limited warranty.

## **LIMITED WARRANTY:**

This item is warranted by Beno J. Gundlach Company for a period of 90 days from the date of purchase against defects in material and workmanship when used in accordance with the operating instructions. During the warranty period, at our option, repair or replacement will be made at no charge. Proof of purchase is required as evidence that the product is within the warranty period and must be presented to obtain warranty service. This warranty does not cover damage caused by misuse or abuse. Warranty claims for items purchased through a distributor must be initiated with that distributor.

The Beno J. Gundlach Company makes no other express or implied warranties. All implied warranties are disclaimed to the extent allowed by law. Any implied warranty not disclaimed is limited in scope to the terms of this Limited Warranty.

## **Request Warrantee Service**

Only a Warrantee may request service. You are a Warrantee if you purchased the product from Beno J Gundlach or from an authorized distributor.

To initiate a warranty repair request, contact the seller where the item was originally purchased. Do not return an item without first initiating a repair request.

## **Not Covered By Warrantee**

The Beno J. Gundlach Company makes no warranty or representation this product complies with any State or Local design, performance, or safety code or standard. Noncompliance with any such code or standard is not a defect in material workmanship.