



# Right Angle Bevel Gear Boxes Installation and Lubrication Instructions

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**FORM**  
**7893E**  
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### ⚠ WARNING

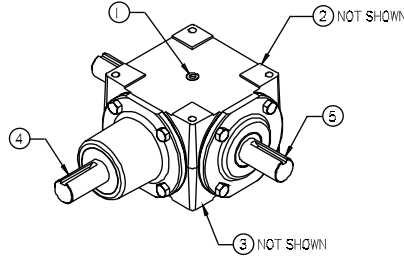
- Read and follow all instructions carefully.
- Disconnect and lock-out power before installation and maintenance. Working on or near energized equipment can result in severe injury or death.
- Do not operate equipment without guards in place. Exposed equipment can result in severe injury or death.
- Reducer shipped without oil. Fill to proper level before operating to avoid equipment damage and/or personal injury.

### ⚠ CAUTION

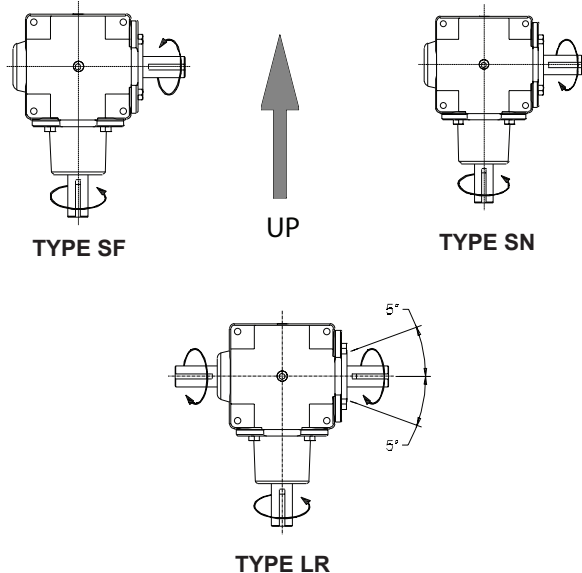
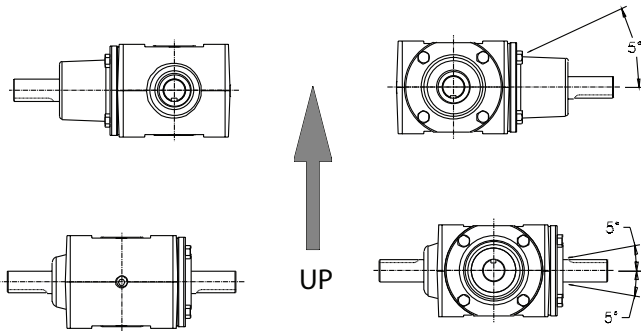
- Periodic inspections should be performed. Failure to perform proper maintenance can result in premature product failure and personal injury.

## Terminology

1. Oil Fill/ Breather Plug
2. Oil Level Plug
3. Oil Drain Plug
4. Pinion Shaft
5. Cross Shaft

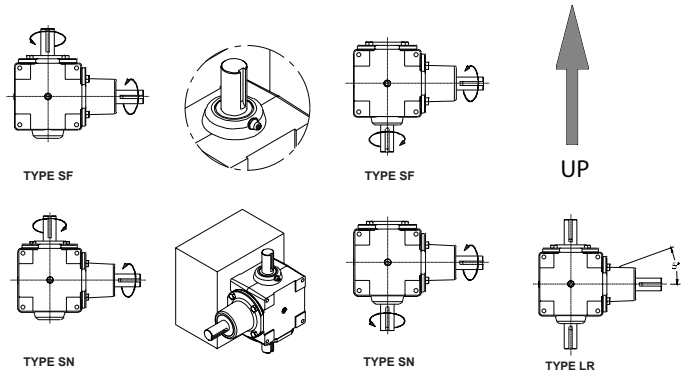


## Allowable Mounting Positions



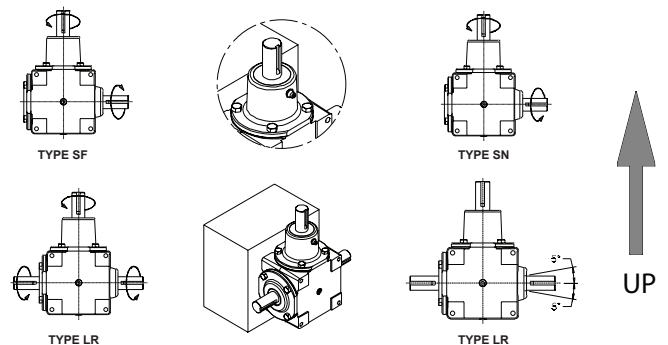
## Special Mounting Cross Shaft Vertical Contact Application Engineering

If the pinion shaft extends vertically upward or the cross shaft is vertical, provisions must be made at the factory to grease lubricate the upper bearings.



## Special Mounting Pinion Shaft Vertical Contact Application Engineering

If the pinion shaft extends vertically upward or the cross shaft is vertical, provisions must be made at the factory to grease lubricate the upper bearings.

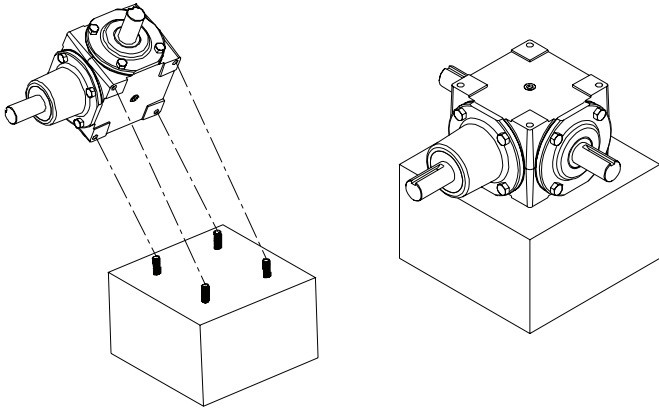


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## Installation

Install the drive in the desired mounting position by bolting securely to a solid foundation.



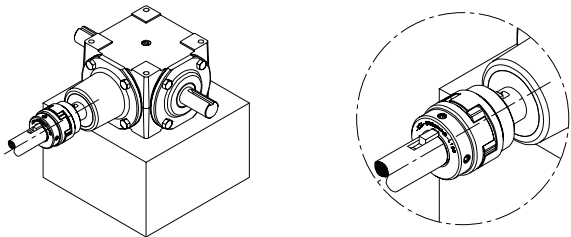
Reducer Size	Thread Size	Grade 5 Tightening Torque
3	5/16-18 NC x 7/16"	16 ft-lbs.
6	3/8-16 NC x 9/16"	25 ft-lbs.
9	3/8-16 NC x 11/16"	25 ft-lbs.
12	1/2-13 NC x 13/16"	65 ft-lbs.
15	1/2-13 NC x 1"	65 ft-lbs.
18	1/2-13 NC x 3/4"	65 ft-lbs.

Do not hammer on shafts



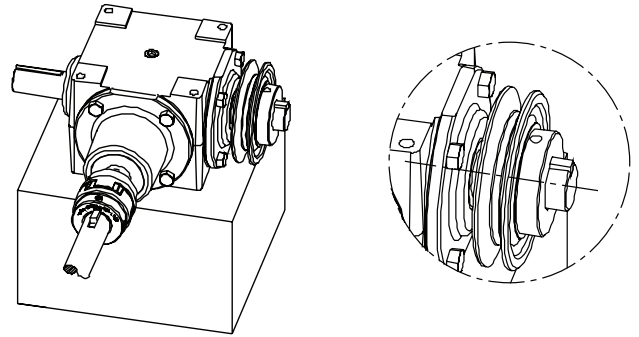
## Mounting Coupling

Accurately align all couplings

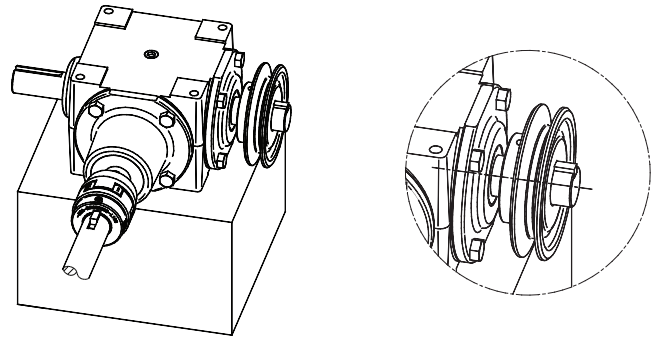


## Mounting Sheaves or Sprockets

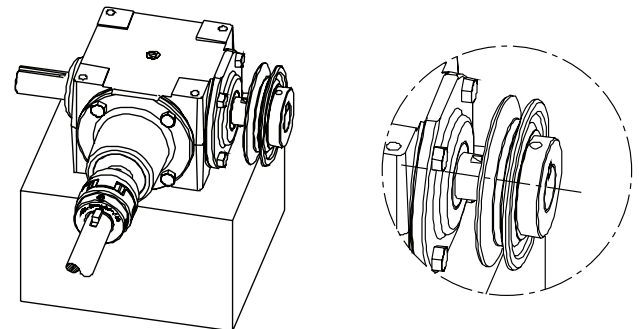
Install all sheaves and sprockets as close as practical to the oil seals



### Recommended



### Acceptable

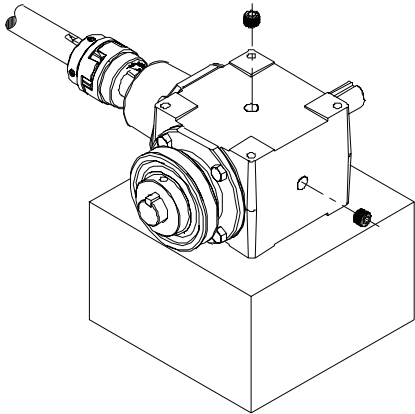


### Not Recommended

## Lubrication

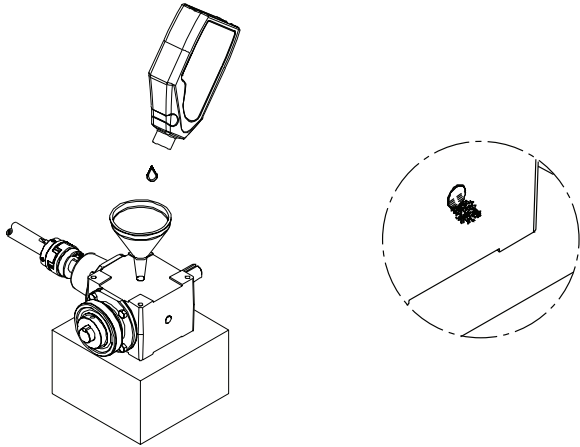
### STEP 1

Before Operating – Remove ① Oil Fill/Breather Plug and ② Oil Level Plug



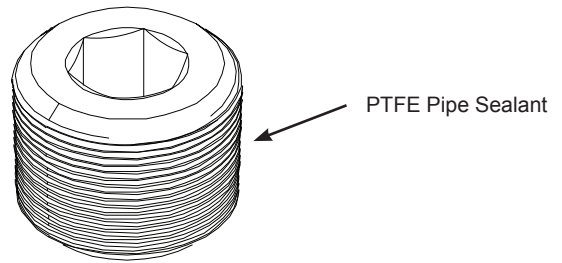
### STEP 2

Fill gear box with an approved lubricant (AGMA 5 EP) until lubricant starts coming out the oil level plug hole.



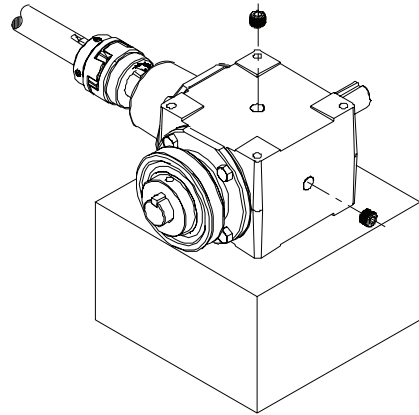
### STEP 3

Clean thread on the removed plugs and apply a PTFE pipe sealant



### STEP 4

Reinstall ② Oil Level Plug.  
Install Breather in ① Oil Fill/Breather plug location.



Reducer Size	Approximate Oil Capacity
3	4 oz.
6	11 oz.
9	12 oz.
12	24 oz.
15	80 oz.
18	80 oz.

## Relubrication/Changing Lubricant

Maintenance Interval	Action	Lubricant
100 hrs	Flush & Refill	Whitmore's Flushing Oil (#06802030) Medallion Flushing Oil (#06812010) AGMA 5EP
Every 2500 hrs or 6 months	Change Oil	AGMA 5EP
Monthly	Grease Special Mounting Positions Only	NLGI Grade 2 Lithium Complex Grease w/ EP Additive

Note: For less favorable conditions such as rapid temperature changes, dirty, dusty or damp atmospheres, more frequent intervals are desired. Contact Application Engineering.

**Notes:**

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