



Emerson Power Transmission

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FORM

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RIGHT ANGLE BEVEL GEAR BOXES INSTALLATION & LUBRICATION INSTRUCTIONS

⚠ WARNING

Reducer shipped without oil. Fill to proper level before operating to avoid equipment damage and/or personal injury. Read and follow all instructions on this sheet.

	<h3>⚠ WARNING</h3> <p>High voltage and rotating parts may cause serious or fatal injury.</p> <p>Turn off power to install or service.</p> <p>Operate with guards in place.</p> <p>Read and follow all instructions in this manual.</p>	
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INSTALLATION - Install the drive in the desired mounting position by bolting securely to a solid foundation. (If the pinion shaft extends vertically upward, or output shaft vertical, provisions must be made at the factory to grease lubricate the upper bearings.) Accurately align all couplings. Install all sheaves and sprockets as close as practical to the oil seals. **Do not hammer on shafts.**

LUBRICATION - Remove the breather and fill the housing to the proper oil level with one of the recommended oils from Table 1 below. The proper oil level is established and maintained at the oil level plug half way up the side of the housing. The approximate oil capacity is shown in Table 2.

RELUBRICATION - After approximately one week or 100 hours operation, drain the reducer, preferably while warm. Thoroughly flush the housing with a light flushing oil and replace with fresh lubricant. Under favorable conditions, change oil every 2500 operating hours or every 6 months, whichever comes first. For less favorable conditions such as rapid temperature changes, dirty, dusty or damp atmospheres, more frequent intervals are desired.

Table No. 1 RECOMMENDED OILS

Viscosity @ 100° F	284-347 SSU	626-765 SSU
Ambient Temp.	15-60° F	50-125°F
AGMA No.	AGMA No. 2	AGMA No. 4
Manufacturer	Trade Name	
Amoco	Amer. Ind. Oil No. 31	Amer. Ind. Oil No.75
Atlantic-Richfield	Duro S-315	Duro S-700
Chevron Oil Co.	Chevron OC Turbine 68	Chevron OC Turbine 150
Cities Service Oil Co.	CITGO Pacemaker T-30	CITGO Pacemaker T-80
Conoco	Dectol 33 R & O	Dectol 76 R & O
Exxon Co.	Terressic 68	NUTO 150
Famous Lubricants Inc.	Gear Life HLC No. 20	Gear Life HLC No. 40
Gulf Oil Corp.	Harmony 33	Harmony 75
Keystone Lubricating Co.	KLC -4A	KLC-3
Mobil Oil Corp.	DTE Oil Heavy Medium	DTE Oil Extra Heavy
Molub Alloy	M-A 603	M-A 609
Pennzoil Co.	Hyd. Oil No. 3	Hyd. Oil No. 5
Phillips Petroleum Co.	Magnus Oil 315	Magnus Oil 700
Shell Oil Company	Tellus 58	Tellus 150
Standard Oil Co. of Cal.	Chevron OC Turbine 68	Chevron OC Turbine 150
Standard Oil Co. (KY)	Chevron OC Turbine 68	Chevron OC Turbine 150
Standard Oil Co. (Ohio)	Factoris 52	Industron 66
Sun Oil Co.	Sunvis 951	Sunvis 999
Texaco Inc.	Regal PC (R & O)	Regal F (R & O)
Union Oil Co.	UNAX AW-68	UNAX AW-150

Table No. 2

Reducer Size	Approximate Oil Capacity
3	4 oz.
6	11 oz.
9	14 oz.
12	26 oz.
15	86 oz.
18	76 oz.