



Recommendations For The Lubrication of Electric Motor Bearings



1. Use Exxon Mobil Polyrex EM Grease in “see through” grease gun similar to those on left. (Home Depot) Enables clear identification of grease prior to use. No mistakes !



2. Calibrate grease gun so that you know what one full stroke of grease weighs. For guns similar to pictures on left there are approximately 33 strokes per oz of grease. See chart on next page for grease capacities and frequency of greasing for popular size motor bearings. The information has been extracted from the [SKF Bearing Handbook for Electric Motors](#), pages 18 and 19.

3, Remove grease drain plug and install grease relief plug. (Alemite)
Check that relief fitting moves freely.



4. Be very careful **NOT** to mix greases or overgrease bearings. There can be incompatibilities between Polyurea-thickened and Lithium/Lithium Complex-thickened greases. If in doubt ASK.

5. After greasing remove any excess and cover grease fitting with grease cap plug.
(Cost approx. \$5 for 50 pcs.)



6. **Extra care needs to be taken when regreasing DC motors**, as any excess , because of the internal air flows inside the DC motor, can end up on the commutator, and field windings, and can cause serious arcing on the commutator and low insulation to ground readings .

SKF Grease Relube Recommendation for Deep Groove Ball Bearings 6200 and 6300 Series

Bearing	Quantity (Ozs)	900 rpm (Hrs)	1800 rpm (Hrs)	3600 rpm (Hrs)
6204	0.1	20,000	14,000	12,200
6205	0.12	19,100	13,500	9,000
6206	0.15	18,200	13,000	8,000
6207	0.19	17,300	12,500	7,000
6208	0.23	16,500	12,500	6,500
6209	0.25	16,400	11,500	5,900
6210	0.28	16,250	11,200	5,300
6211	0.33	16,150	10,500	4,600
6212	0.38	16,000	10,000	4,000
6213	0.43	15,600	9,600	3,200
6214	0.47	15,200	9,200	2,600
6215	0.5	14,800	8,800	2,000
6216	0.55	14,500	8,500	1,500
6217	0.65	14,400	8,250	1,200
6218	0.76	14,250	8,000	900
6219	0.84	14,100	7,750	650
6220	0.95	14,000	7,500	
6304	0.12	20,000	14,000	12,200
6305	0.16	19,100	13,500	9,000
6306	0.21	18,200	13,000	8,000
6307	0.26	17,300	12,500	7,000
6308	0.32	16,500	12,000	6,500
6309	0.39	16,400	11,500	5,900
6310	0.46	16,250	11,200	5,300
6311	0.54	16,150	10,500	4,600
6312	0.63	16,000	10,000	4,000
6313	0.72	15,600	9,600	3,200
6314	0.81	15,200	9,200	2,600
6315	0.92	14,800	8,800	2,000
6316	1.03	14,500	8,500	1,500
6317	1.14	14,400	8,250	1,200
6318	1.26	14,250	8,000	
6319	1.4	14,100	7,750	
6320	1.57	14,000	7,500	