MAINTENANCE

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Routine Maintenance

A routine maintenance schedule should be developed for every IronHorse® motor installation based on the individual application. Motors installed in a harsh running environment should be serviced more frequently than those installed in a clean, climate controlled area. Use the following to create a schedule.

1) Clean the motor housing using a brush, soft cloth or compressed air. Pay special attention to the cooling ribs on cast iron motors. Remove any dirt and dust from the fan and fan cover vents.
2) Frequently monitor the bearing temperature on the motor. It should not exceed 60°C (140°F).
3) Have the insulation checked periodically by an authorized motor specialist.
4) (Applicable only for certain motors, per Note 1 of table shown below):
   Lubricate the bearings using the schedule shown below.
5) (Applicable only for certain motors, per Note 1 of table shown below):
   Purge the bearing grease at least every six months on all motors with serviceable bearings. Replace both the drive end and opposite drive end bearings at the end of their recommended running hour life. Motors used in belt drive applications have a bearing life expectancy of 50,000 hours. Direct coupled application motors have a bearing life expectancy of 100,000 hours.

Bearing Lubrication Schedule

HP(1)	*Drive End Bearing Lubrication(2)*	*Grease Amount(3)*	*Opposite Drive End Bearing Lubrication(2)*	*Grease Amount(3)(4)*
15	9000	0.46 oz	9000	0.29 oz
20				
25	7500	0.64 oz		0.46 oz
30				
40	7000	0.75 oz	7500	0.64 oz
50				
60	6500	0.86 oz	7000	0.75 oz
75				
100	3000	1.22 oz	6500	0.86 oz
125	2500	1.47 oz	6500	
150				
200	2300	1.61 oz		
250	2100	1.82 oz	2300	1.61 oz
300				

1) Motors from 1/3 hp to 10 hp, and all MTSS stainless-steel motors have non-serviceable permanently-sealed bearings.
2) Running time in hours.
3) Use only Mobil POLYREX® EM Polyurea grease.
4) For MTCP2 motors, use only SKF LGHP2 grease.
5) For MTDP motors, use Multemp SRL grease or equivalent.

6) MTSS stainless-steel motor bearings should be replaced between 15,000 and 20,000 hours of use (depending upon the severity of use).

Bearing Size Information

All IronHorse® cast-iron motors use premium name-brand bearings (NSK, NTN, or SKF). Below is a bearing size chart listing the type of bearings used in each frame size of IronHorse motors. The bearing types are also listed on the motor nameplate.

Bearing Size Chart

Frame Size *	Drive End Bearing				Opposite Drive End Bearing				
	MTF Motors	Other IronHorse Motors (Except MTF)	MTF2	MTDP	MTF Motors	MTR2/MTRP /MTRJ Motors	MTCP2 Motors	MTF2	MTDP
56(H)C	–	6203-ZZ or 6205	–		–	6203-ZZ	–	–	–
143T		6205-ZZ		6205		–	6205-ZZ		6204
145T				6205					6204
182T	6206-ZZ	6306-ZZ	6306	6306	6205-ZZ		6206-ZZ	6206	6305
184T	6206-ZZ		6306	6306	6206-ZZ			6205	6305
213T	–	6308-ZZ	–	6308	–		6207-ZZ		6306
215T	–		6308	6308				6206	6306
254T		6309	–	6309			6209	–	6307
256T				6309					6307
284T		6311		6311			6309		6310
286T				6311					6310
324T		6312		6314			6311		6212
326T				6314					6212
364T		6313		–			6312		–
365T									
404T		NU316					6313		
405T									
444T		NU318							
445T									
445/7T		NU319							
449T		NU320					6320		

** TC-frame motors have the same bearings as the comparable T-frame motors.*

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