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	0.46.07		0.29.07						
20	9000	0.40 02	9000	0.29 02						
25	7500	0.64.07	9000	0.46.07						
30	7500	0.04 02		0.40 02						
40	7000	0.75.07	7500	0.64.07						
50	7000	0.75 02	7300	0.04 02						
60	6500	0.86.07	7000	0.75.07						
75	0500	0.80 02	7000	0.7 5 02						
100	3000	1.22 oz	6500							
125	2500	1 47 67		0.96.07						
150	2500	1.47 02	6500	0.80 02						
200	2300	1.61 oz								
250	2100	1 92 07	2200	1.61.07						
300	2100	1.02 02	2300	1.01 02						
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															
		Drive End Bear	ring		Opposite Drive End Bearing										
Frame Size *	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 77	-	6205	_		6205 77	_	6204						
145T		6205-22		6205			0205-22		6204						
182T	6206-ZZ	6206 77	6306	6306	6205-ZZ		6206 77	6206	6305						
184T	6206-ZZ	0300-22	6306	6306	6206-ZZ		0200-22	6205	6305						
213T	-	6208 77	-	6308			6207 77		6306						
215T		0306-22	6308	6308			0207-22	6206	6306						
254T		6200		6309			6200		6307						
256T		6309		6309			6209		6307						
284T		6211		6311			6309		6310						
286T		0311		6311		_			6310						
324T		6212		6314			6211		6212						
326T		0312		6314	_		0311		6212						
364T	-	6313	_				6312	_							
365T							0312								
404T		NU316													
405T				_			6949		_						
4441		NU318					6313								
4451		NI 1210	1												
445/71		NU220	-				(220								
4491 * TC free		NU320		- +h			6320								
" IC-fram	e motors r	iave the same bed	arings a	s the con	nparable I	-jrame motors.									

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