

Motor Shop Repairs

Job Number 99555

Prepared for Bryce Corporation (10053-BRC)

450 S. Benton Searcy AR 72143

Table of Contents

DC Repair Report - Shop

DC Repair Report Rev. 2: 99555 - 70715CR

1.0



Hi-Speed Industrial Service 7030 Ryburn Dr Millington, Tn 38053 901-873-5300

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DC Repair Report **Bryce Corporation (10053-BRC)**

450 S. Benton Searcy, AR 72143



DC Repair Report Rev. 2		
Location:	Shop	
Job Number:	99555	
Serial Number:	70715CR	
Status:	In For Repair	
Description: 15HP US 1750RPM 257AT		

Hi-Speed Job Number:	99555
Manufacturer:	US Motors/Nidec
Product Number :	25700450012
Serial Number:	70715CR
HP/KW:	15 (HP)
RPM:	1750
Frame:	257AT
Armature Voltage:	500 (Volts)
Armature Current:	26.5 (Amps)
Field Voltage:	300 (Volts)
Field Current :	1.05 (Amps)
J-Box Included:	No
Date Received:	03/25/2022
Winding RTDS:	Yes
Mounting Orientation :	Horizontal

Priorities Found: 1 - High



7 - Good

Overall Condition

- 1. Describe the Overall Condition of the Equipment as Received
- Nameplate Picture



Distance From the End of the Shaft to the end of the Face of the Sheave/Coupling

Initial Mechanical/Electrical

Does the Shaft Turn Freely?

Does Shaft Have Visible Damage?

(Y) Yes (No) No



6. Assembled Shaft Runout **0.001 Inches**

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12. Fan Condition(P) Pass



13. Brush Information

Brush Number Quantity Condition
2 good



14. Brush Holder Condition - Verify proper gap to Commutator

pass



Incoming Electrical Test

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15. General Condition of the Armature/Commutator

rewind armature, turn commutator



16.	Armature Insulation Resistance to G Windings blown in slot	round	0 Megohms	
17.	Field Circuit Insulation Resistance to Ground		200 Megohms	
18.	Interpole Circuit Insulation Resistance	e to Ground	600 Megohms	
19.	Field Drop Test Fields 1&2			
	Total AC Voltage	Field #1	Field #2	
	115	0.63	0.632	
20.	Field Drop Test Fields 3&4			
	Field #3	Fleld #4	Field #2	
0.4	F. 11B . T . F. 11 . 500			
21.	Field Drop Test Fields 5&6	E1 11 W2	F: 11.00	
	Field #5	Fleld #6	Field #2	
22.	Field Drop Test Fields 7&8			
	Field #7	Fleld #8	Field #2	
	110.00 // 1	1 1010 110	11014 112	
23.	Interpole Drop Test 1&2			
	Total AC Voltage	Interpole #1	Interpole #2	
	5	1.5	1.5	
24.	Interpole Drop Test 3&4			
	Interpole #3	Interpole #4	Field #2	
25.	Interpole Drop Test 5&6	1	F: 11 110	
	Interpole #5	Interpole #6	Field #2	
26.	Interpole Drop Test 7&8			
	Interpole #7	Interpole #8	Field #2	
27.	Armature Number of Bars - Bar to Ba	ar Test		
	Number of Bars	Bar to Bar Test		
	104			
Mecha	anical Inspection			
28.	Shaft Runout Drive End		0.001 inches	
29.	Shaft Runout Armature			
	Drive End Bearing Journal	Armature Core	ODE Bearing Journal	
	0.001	0.001	0.001	

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30. Drive End Bearing Number

6209-2rs



31. Drive End Bearing Quantity



32. Drive End Bearing Type	(Ball) Ball Bearing
33. Drive End Lubrication Type	(Grease) Grease Lubricated
34. Drive End Bearing Insulation or Grounding Device?	
35. Drive End Wavy Washer/Snap-Ring Other Retention Device?	no
36. Drive End Bearing Condition	worn
37. Opposite Drive End Bearing Number	6207-2rs



38. Opposite Drive End Bearing Quantity	1
39. Opposite Drive End Bearing Type	(Ball) Ball Bearing
40. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
41. Opposite Drive End Bearing Insulation or Grounding Device?	
42. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	yes
43. Opposite Drive End Bearing Condition	worn
Has frosting	



44. Signature of Technician who Performed Teardown

Trevor Hall



45. List Parts Needed Prior to Reassembly

6209 sealed 6207 sealed	

Mecha	Mechanical Fits - Armature					
46.	Coupling Fit Closest to Bearing Housi	ng				
	0 Degrees	60 degrees	120 degrees			
47.	47. Coupling Fit Closest to the End of the Shaft					
	0 Degrees	60 degrees	120 degrees			
48.	Drive End Bearing Shaft Fit					
	0 Degrees	60 Degrees	120 Degrees			
	1.7722	1.7722	1.7722			



49.	Drive End Bearing Shaft Fit Condition			(P) Pass
50.	Opposite Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	1.3784	1.3783	1.3783	
51.	Opposite Drive End Bearing Shaft Fit	Condition		(P) Pass



52. Shaft Air Seal FitsDrive End Air SealOpposite Drive End Air Seal

Mechanical Fits- Bearing Housings

53.	3. Drive End - End Bell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	3.3478	3.3476	3.3478
-	End bell oversized		

AND SANDERS OF THE PARTY OF THE

54.	Drive End - Endbell Bearing Fit Condition		(F) Fail	
55.	. Opposite Drive End - End Bell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	2.8352	2.8352	2.8352	
56.	6. Opposite Drive End - Endbell Bearing Fit Condition		(P) Pass	



57. Bearing Cap Condition		
Drive End	Opposite Drive End	
58. End Bell Air Seal Fits		
Drive End Air Seal	Opposite Drive End Air Seal	
59. List any Machine work	Needed Below	sleeve drive end end bell
60. Signature of Technician	Performing Measurements	Trevor Hall



Dynar	Dynamic Balance Report			
61.	Rotor Weight and Balance Grade			
	Rotor Weight	Balance Grade		
62.	Initial Balance Readings			
	Drive End Readings	Opposite Drive End Readings		
63.	Final Balance Readings			
	Drive End Readings	Opposite Drive End Readings		
64.	Signature of the Balance Technician			

Commutator Data

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65.	Total Copper Segment Length		1.625 inches		
66.	Number of Bars		104		
67.	Number of Wires Per Copper Bar and	Size			
	Number of Wires per Bar	Wire Size			
-	Unknown until burnt out, insulation and wires physically removed				
68.	Equalizers per Copper Bar and Equal	izer Wire Size			
	Equalizers per Bar	Wire Size			
60	Document Commutator Diameter, Minimum and Max				
69.	Current Comm Diameter	Minimum Comm Diameter	Maximum Comm Diameter		
	Current Comm Diameter	Willimum Comm Diameter	Maximum Comm Diameter		
-	4.8625 on bars, 5.7465 on riser				
70.	Commutator Shaft Diameter				
	Front Shaft Diameter	Back Shaft Diameter			
	1.7360				
71.	Commutator Type				
72.	Commutator Bore				
73.	Signature of Technician Recording Da	ata	Trevor Hall		
		1 -			
		·			
Post /	Armeture Powind Testing				
	Armature Rewind Testing	intance to Cround			
	Post Rewind Armature Insulation Resistance to Ground				
	Post Rewind Field Circuit Measure the Insulation Resistance to Ground Post Rewind Armature Number of Bars - Bar to Bar Test				
70.	Number of Bars	Bar to Bar Test			
	Number of bars	Dai to Dai Test			
77.	Post Rewind Field Circuit Insulation Resistance to Ground				
78.	Post Rewind Interpole Circuit Insulation				
	Post Rewind Field Drop Test Fields 1&2				
	Total AC Voltage	Field #1	Field #2		
	<u> </u>				
80.	Post Rewind Field Drop Test Fields 3	&4			
	Field #3	Fleld #4	Field #2		
81.	Post Rewind Field Drop Test Fields 5				
	Field #5	Fleld #6	Field #2		
00	Post Dawind Field Dress Teet Field 7	ο o			
82.	Post Rewind Field Drop Test Fields 7		Field #0		
	Field #7	Fleld #8	Field #2		
83	Post Rewind Interpole Drop Test 1&2				
05.	Total AC Voltage	Interpole #1	Interpole #2		
	Total AC Voltage	interpole #1	interpole #2		

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84.	Post Rewind Interpole Drop Test 3&4					
	Interpole #3	Interpole #4	Field #2			
85.	Post Rewind Interpole Drop Test 5&6					
	Interpole #5	Interpole #6	Field #2			
86.	Post Rewind Interpole Drop Test 7&8					
	Interpole #7	Interpole #8	Field #2			
	Mechanical Repair					
87.	Post Repair Coupling Fit Closest to Be	•				
	0 Degrees	60 degrees	120 degrees			
00	D . D . O . E . E . O	5 1 (# OL #				
88.	Post Repair Coupling Fit Closest to th		100 1			
	0 Degrees	60 degrees	120 degrees			
20	. Post Repair Drive End Bearing Shaft Fit					
09.			120 Degrees			
	0 Degrees	60 Degrees	120 Degrees			
90.	Post Repair Drive End Bearing Shaft I	Fit Condition				
	Post Repair Drive End Opposite Drive					
011	0 Degrees	60 Degrees	120 Degrees			
	o Degrees	00 Degrees	120 Degrees			
92.	Post Repair Drive End Opposite Drive	End Bearing Shaft Fit Condition				
93.	. Post Repair Drive End - End Bell Bearing Fit					
	0 Degrees	60 Degrees	120 Degrees			
	Ü	ŭ	3			
94.	Post Repair Drive End - Endbell Bearing Fit Condition					
95.	Post Repair Opposite Drive End - End	Bell Bearing Fit				
	0 Degrees	60 Degrees	120 Degrees			
96.	Post Repair Opposite Drive End - Endbell Bearing Fit Condition					
97.	Post Repair Bearing Cap Condition					
	Drive End	Opposite Drive End				
98.	Post Repair End Bell Air Seal Fits					
	Drive End Air Seal	Opposite Drive End Air Seal				
00	Oissanting of Took Doubousius Masks	inal Danaira				
	Signature of Tech Performing Mechan	iicai Repairs				
	Assembly					
	Take Pictures of all Major Components Prior to Reassembly					
101.	Verify Brush Box Holders Have the Proper Clearance, and Brushes have been Seated Properly					
102	Assembled Shaft End Play and Runou	ıt				
102.	Shaft Endplay	Shaft Runout				
	Chart Enaplay	Chair Runout				
103.	Perform No-Load Test Run, Record A	rmature Voltage and Current				
	Voltage	Current				

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104.	Perform No-Load Test Run, Record Field Voltage and Current					
	Voltage	Current				
105.	Document Vibration Readings Drive End					
	Horizontal	Vertical	Axial			
106	s. Document Vibration Readings Opposite Drive End					
100.	Horizontal	Vertical	Axial			
	Horizoniai	vertical	Axidi			
107.	Perform Full-Load Test Run, Record Armature Voltage and Current					
	Voltage	Current				
108.	Perform Full-Load Test Run, Record Field Voltage and Current					
	Voltage	Current				
400	D (1/2) 6 D 1 11 1	5 H. J.B.: E. J.				
109.	Document Vibration Readings Under					
	Horizontal	Vertical	Axial			
110.	Document Vibration Readings Under Full Load Opposite Drive End					
	Horizontal	Vertical	Axial			
		0.1100.	7 5 1151			
111.	Ambient Temperature					
112.	Drive End Bearing Temps Under Full Load					
	5 Minutes	10 Minutes	15 Minutes			
113.	Opposite Drive End Bearing Temps U					
	5 Minutes	10 Minutes	15 Minutes			
114	Final Test Run Sign-Off					
	Document Final Condition With Pictures					
	Final QC Sign-Off					
110.	a. ao oigir on					



STANDARD TERMS AND CONDITIONS FOR PURCHASE OF GOOD AND/OR SERVICES

- 1. APPLICABILITY. The sale of any and all goods and/or services by Mock, Inc. d/b/a Hi-Speed Industrial Service ("Hi-Speed") shall be specifically conditioned upon and subject to the following terms and conditions which are incorporated by reference into any contracts and purchase orders with Hi-Speed, and which shall form and become a part of any agreement related thereto. Buyer's acceptance of any offer or quotation made by Hi-Speed for sale of any goods or services is expressly made subject to the terms and conditions set forth herein and to be so effective, Buyer need not sign or approve these Terms and Conditions to be bound hereunder provided a copy of same is provided to Buyer through any means. None of the terms and conditions contained herein may be added to, expanded, changed, modified, superseded or otherwise altered except as revised in writing and duly executed by Hi-Speed, and all orders received by Hi-Speed shall be governed only by the terms and conditions contained herein, notwithstanding any terms, conditions or provisions of any purchase order, release order, authorization or any other form issued by the Buyer. Hi-Speed hereby objects to any additional, modified, changed, deleted, altered or other terms and conditions not contained herein and notifies Buyer that any such terms or provisions are expressly rejected by Hi-Speed.
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- 5. <u>DELIVERY OF GOODS AND/OR SERVICES.</u> Unless otherwise identified in the quotation, all shipments are F.O.B. Hi-Speed's warehouse and the title to and all risk of loss with respect to any goods shipped shall pass to Buyer when such goods are delivered to the carrier at Hi-Speed's warehouse. Hi-Speed will use its best efforts to affect delivery by the date or dates specified in the quotation. However, Hi-Speed shall not be liable for delay in or failure to make shipment, or to perform services, by any identified date for any reason whatsoever, including but not limited to, causes beyond its reasonable control, such as strikes, fires, floods, epidemics, quarantines, restrictions, severe weather, embargos, acts of God, or public enemy, war, riot, delays in transportation or the inability to obtain necessary labor, materials or manufacturing facilities.
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- 8. WARRANTIES. Hi-Speed warrants that all goods shall conform in all material aspects to the goods identified in the quotation to Buyer and/or purchase order, and Hi-Speed makes to Buyer the manufacturer's express warranty for any goods sold to Buyer, which is offered by the manufacturer at the time of acceptance of any quotation by Buyer. This warranty is conditioned upon the installation, operation, and maintenance of the goods in accordance with the manufacturer's recommendations and/or standard industry practice and the goods at all times being operated or used under normal operating conditions for which they were designed. Hi-Speed, at its sole option, will repair or

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- 10. <u>SEVERABILITY.</u> The partial or complete invalidity of any provision of these Standard Terms and Conditions shall not affect the enforceability of the remainder of these Standard Terms and Conditions. If any provision is found to be invalid or unenforceable, that portion shall be modified to make it enforceable or shall be stricken and the remainder of these Standard Terms and Conditions shall enforced.
- 11. **GOVERNING LAW AND JURISDICTION.** Any controversy arising out of any quotation, the purchase order, the goods sold or delivered, repair or replacement thereof, or any services provided pursuant to any quotation or any purchase order, or these Standard Terms and Conditions shall be governed by the laws of the state of Tennessee without regard to any choice of law provisions and any cause of action related in any manner thereto shall be brought only in the state or federal courts of Shelby County, Tennessee.
- 12. ABANDONED EQUIPMENT. Hi-Speed requires that Buyer promptly pick up or provide shipment instructions for Buyer equipment or other Buyer property in Hi-Speed's possession. If equipment or other Buyer property is left with Hi-Speed and not picked up within six (6) months after Hi-Speed's final action related to the applicable property (e.g. evaluation, teardown, estimate, completion of services), Hi-Speed will consider such property abandoned and may dispose of it in accordance with applicable law. Buyer agrees to hold Hi-Speed harmless for any damage or claim for such abandoned property and acknowledges that Hi-Speed may discard or recycle it at Hi-Speed's sole and absolute discretion. Specifically, Hi-Speed may sell Buyer's abandoned property at a private or public sale and retain the proceeds to offset Hi-Speed's storage, inspection and servicing costs. For the avoidance of doubt, Hi-Speed reserves its statutory and other lawful liens for unpaid charges related to abandoned property.
- 13. FORCE MAJEURE. Neither party shall be responsible for any delay or failure in performance of any party of the quotation, purchase order or these Standard Terms and Conditions to the extent that such delays or failures are caused by fire, flood, earth quake, explosion, war, embargo, government requirement, civil or military authority, acts of God, or any other circumstances beyond its reasonable control and not involving any fault or negligence on the party affected ("Condition"). If any such Condition occurs, the party delayed or unable to perform shall promptly give written notice to the other party and, if such Condition remains at the end of thirty (30) days, the party affected by the other party's delay and inability to perform may elect to (i) terminate such order or part thereof, or (ii) suspend the order for the duration of the Condition, if the Buyer is the suspending party, buy elsewhere comparable material to be sold under the order and apply to any commitment the purchase price of such purchase, and resume performance of the order once the Condition ceases, with an option in the affected party to extend the period of this order up to the length of the time the Condition endures.
- 14. <u>NONWAIVER.</u> No course of dealing or failure of either party to strictly enforce any term, right, or condition of these Standard Terms and Conditions will be construed as a waiver of such term, right or condition. Any waiver by Hi-Speed will only be in writing and will waive no succeeding breach of a term, right or condition.
- 15. **ASSIGNMENT.** The rights and obligations of the parties shall neither be assigned nor delegated without the prior written consent of the other party. However, any party may assign or delegate its respective rights and obligations, in whole or in part, (i) to any subsidiary, (ii) pursuant to other financing, merger or reorganization or (iii) pursuant to any sale or transfer of substantially all of the assets of the assigning party. These Standard Terms and Conditions shall bind the heirs, successors and assigns of the parties hereto.
- 16. NO INDIVIDUAL LIABILITY. Notwithstanding any other agreement to the contrary, the Buyer agrees that in no event will the Buyer hold and HI-Speed owner, director, officer or employee personally liable for unintentional tortious conduct or conduct that constitutes the breach of any contract between HI-Speed and the Buyer, even if the HI-Speed owner, director, officer or employee is or could be construed to be a party to such contract.