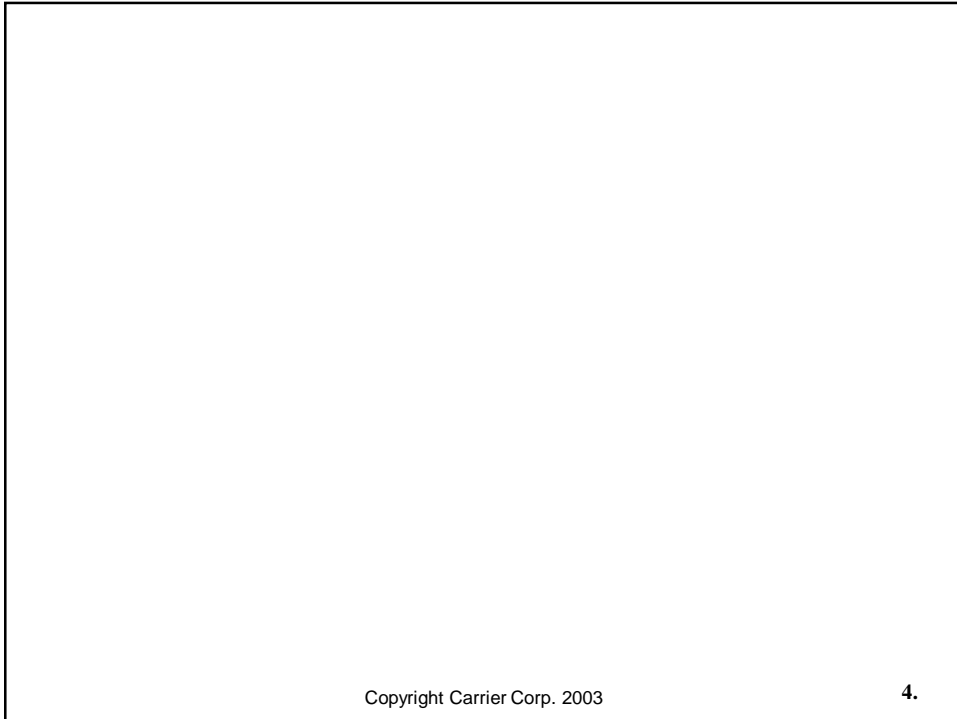


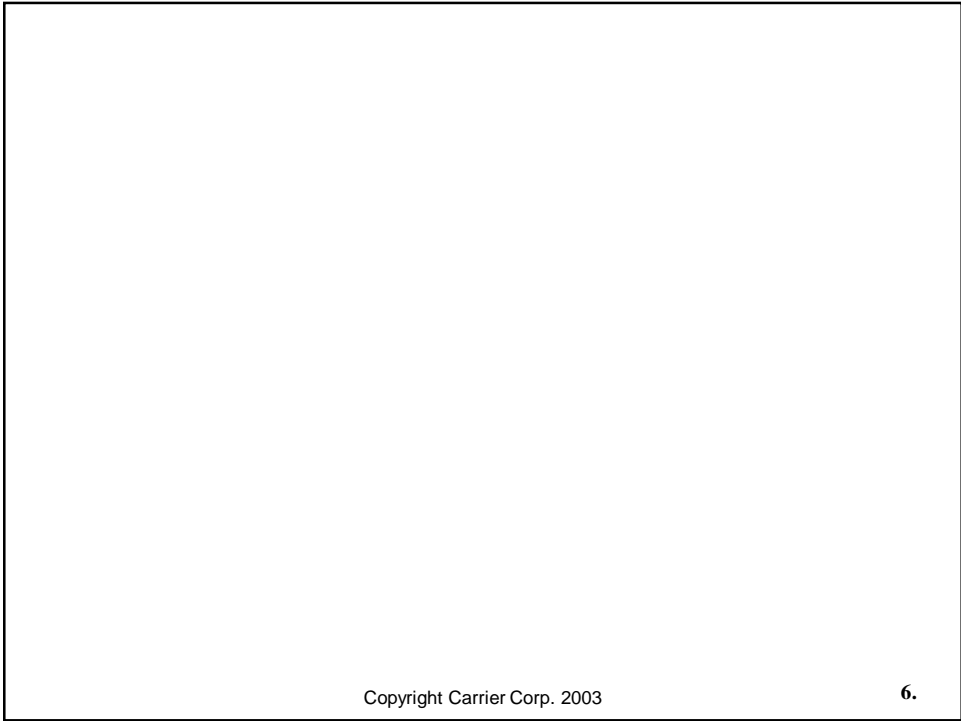
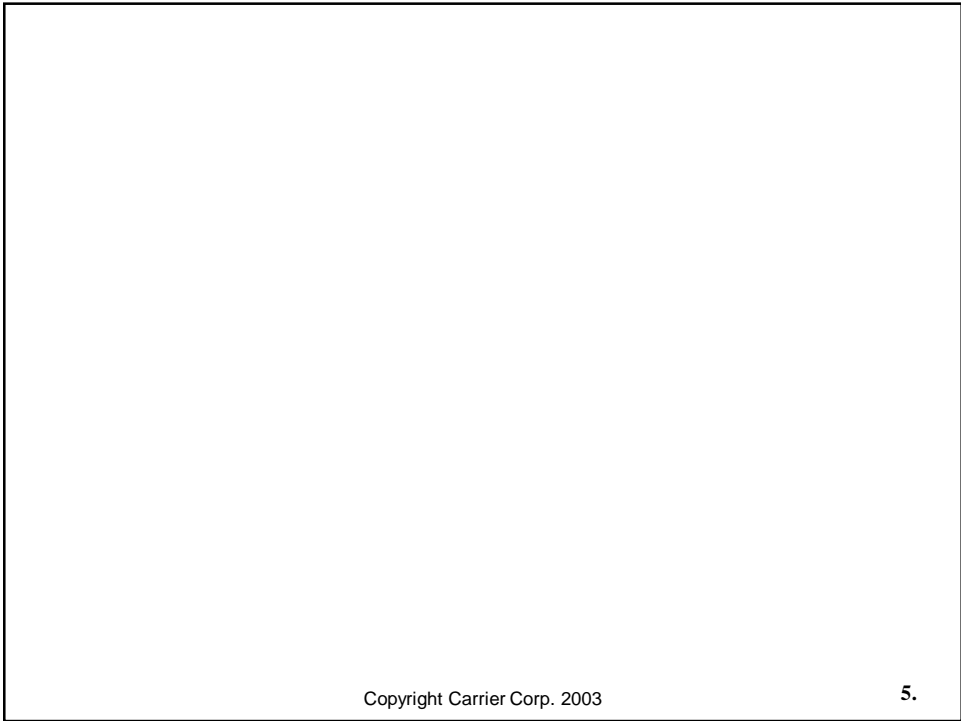
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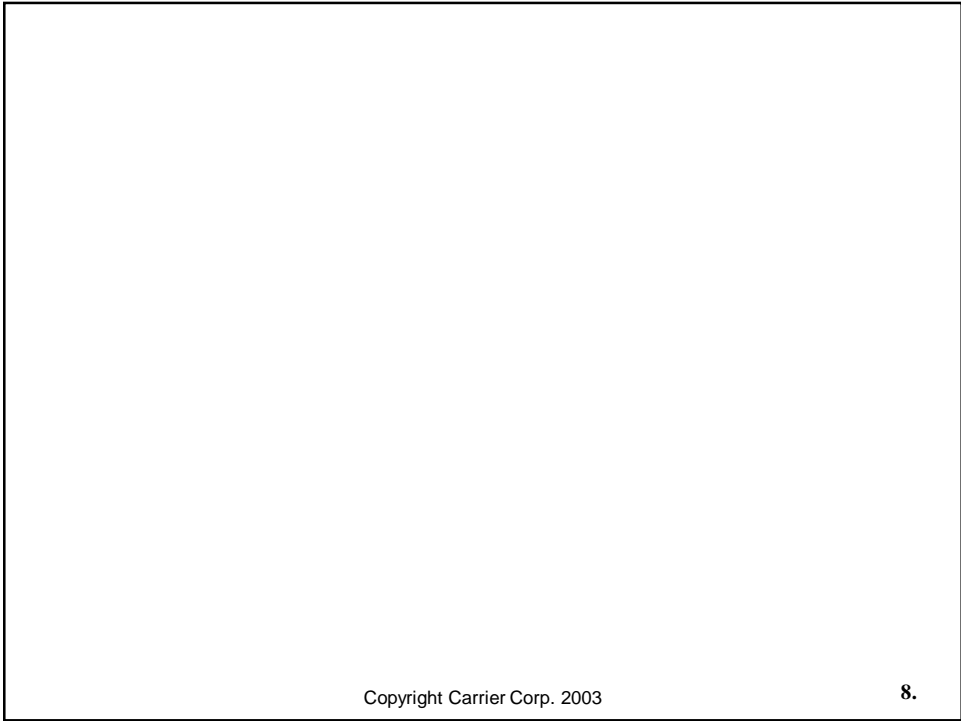
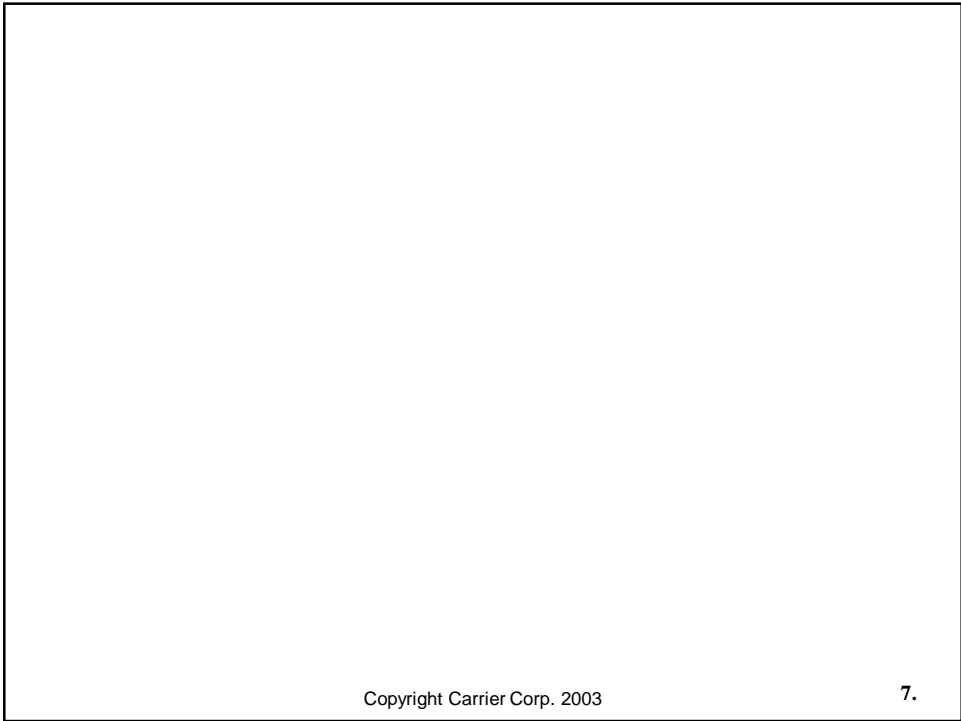
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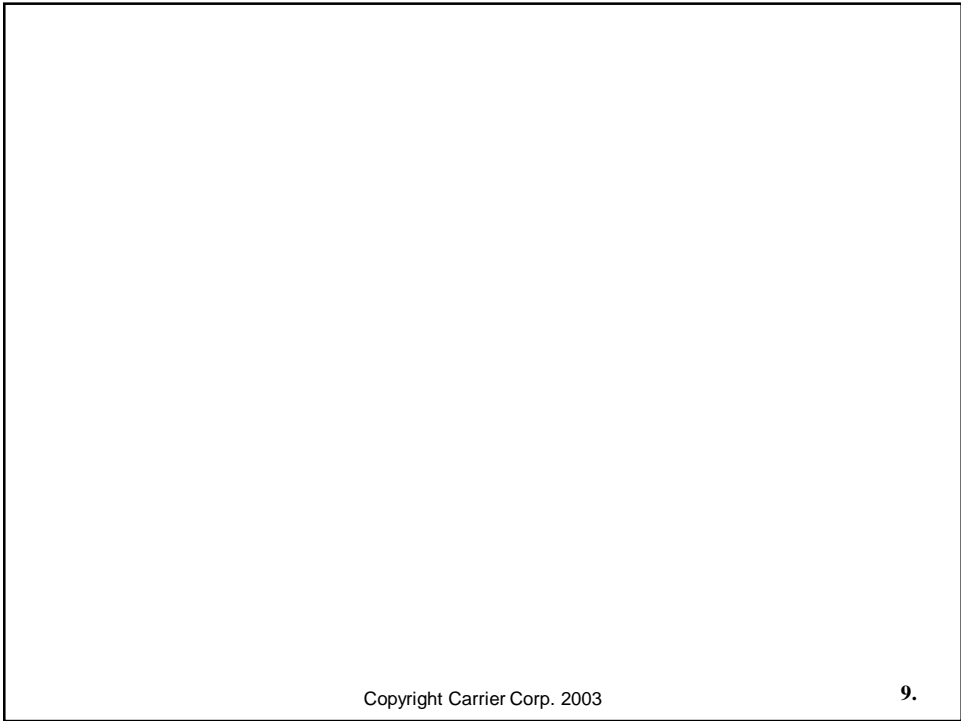


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4.

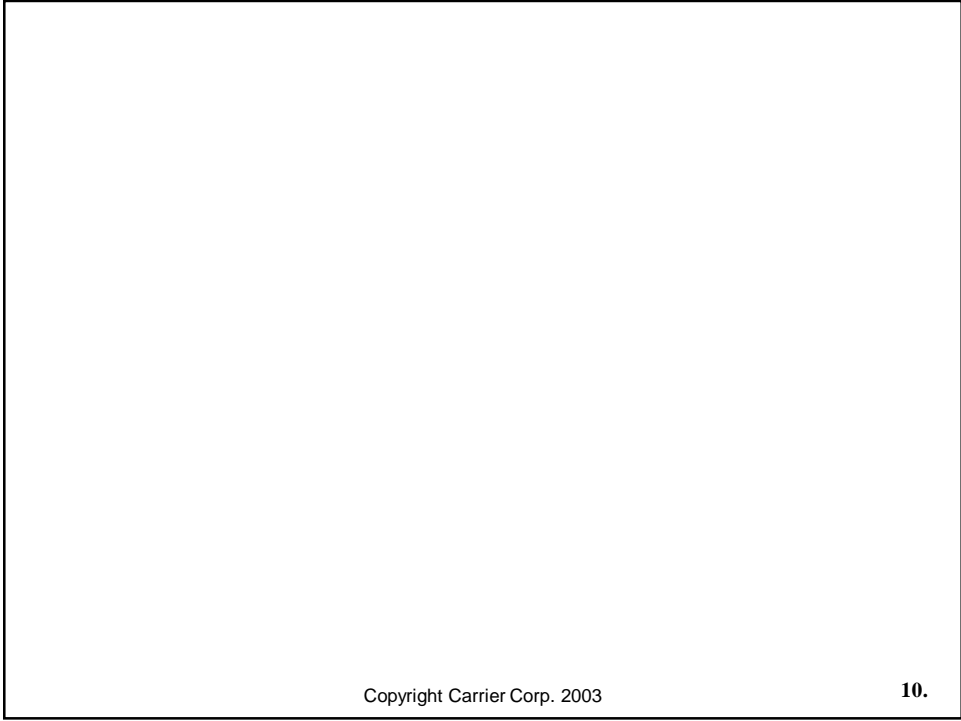






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9.

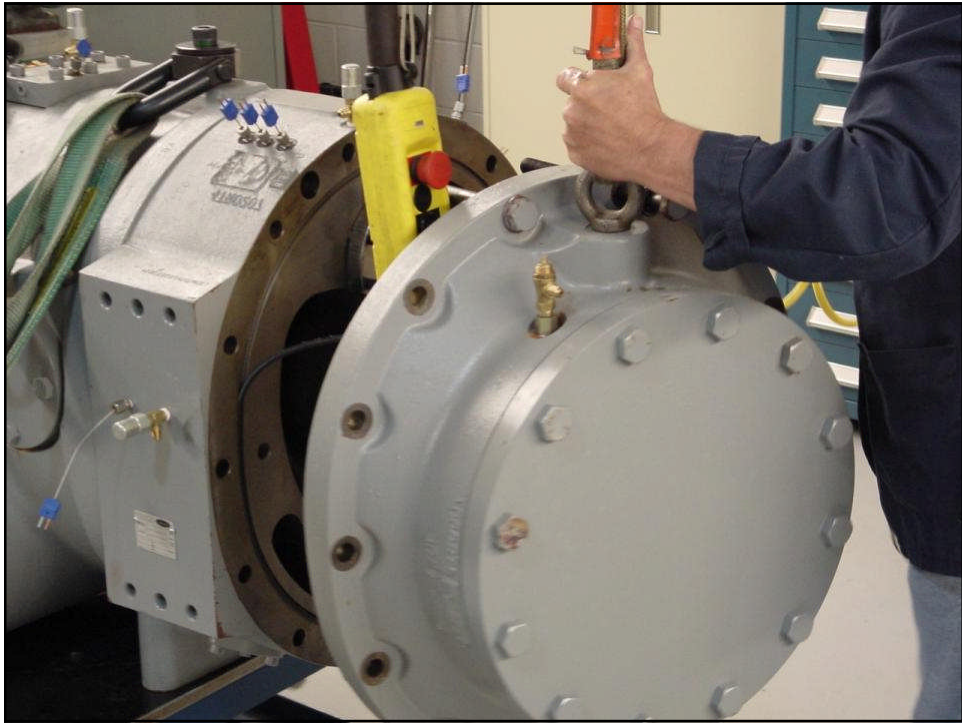


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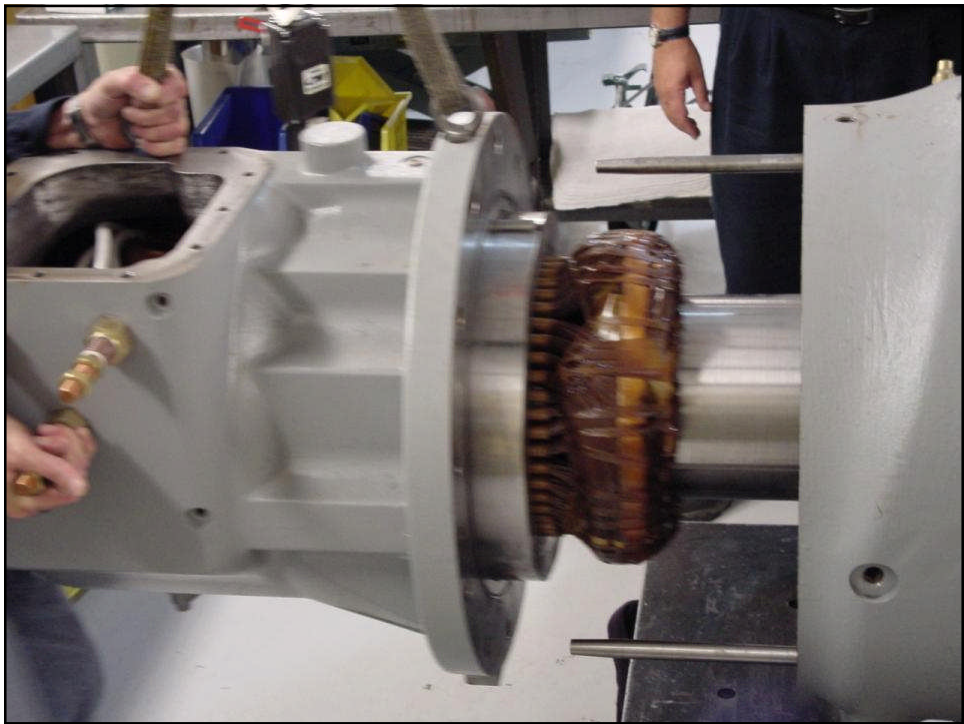
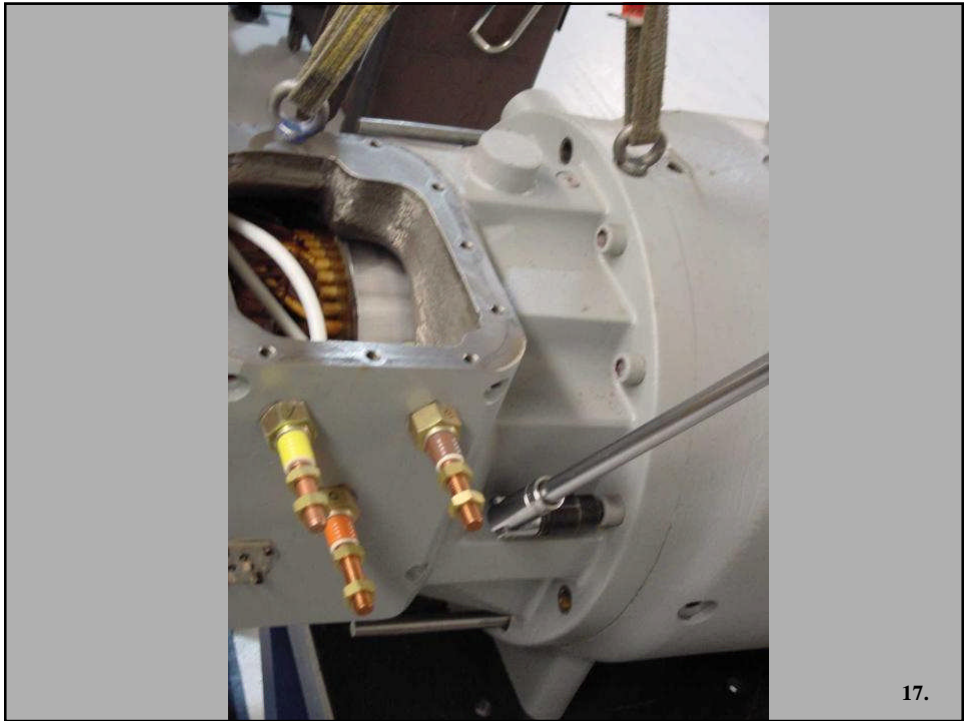
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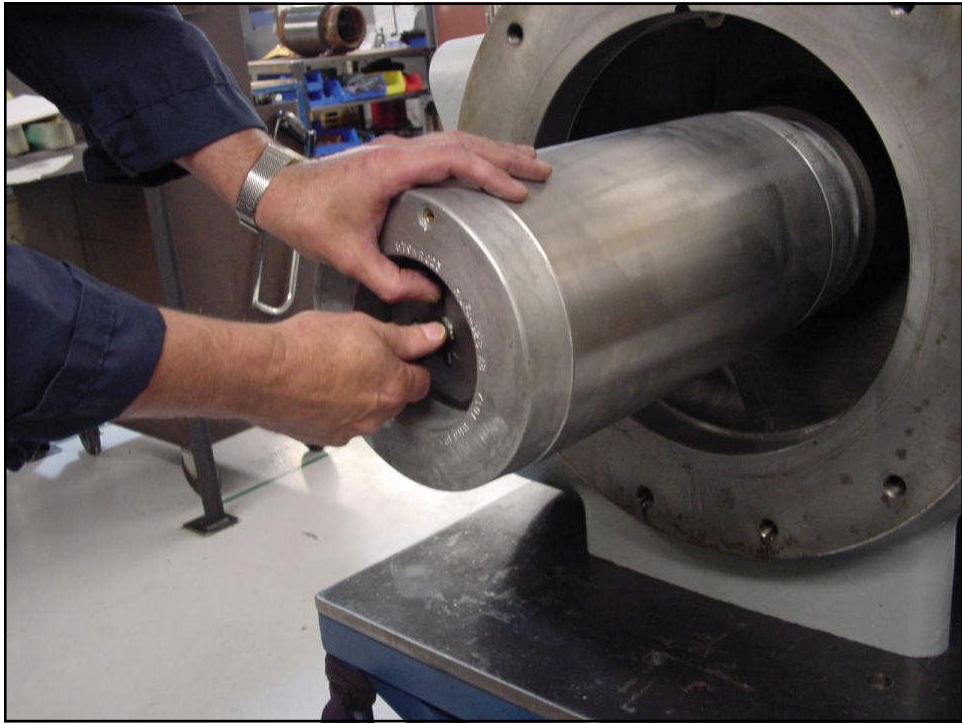
# 23XR Screw Liquid Chiller

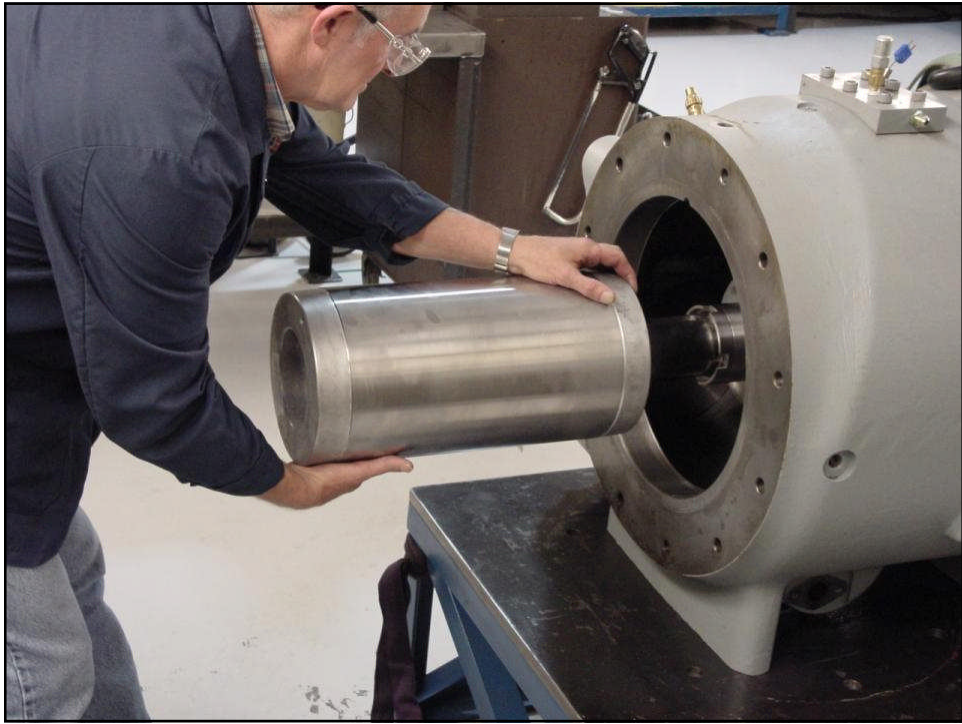




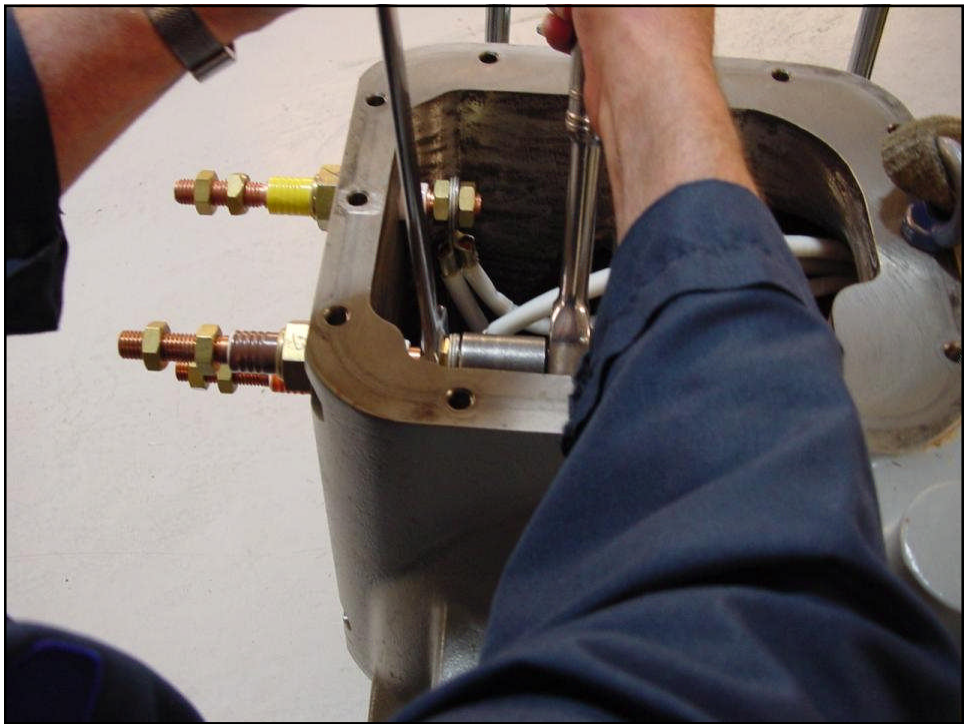
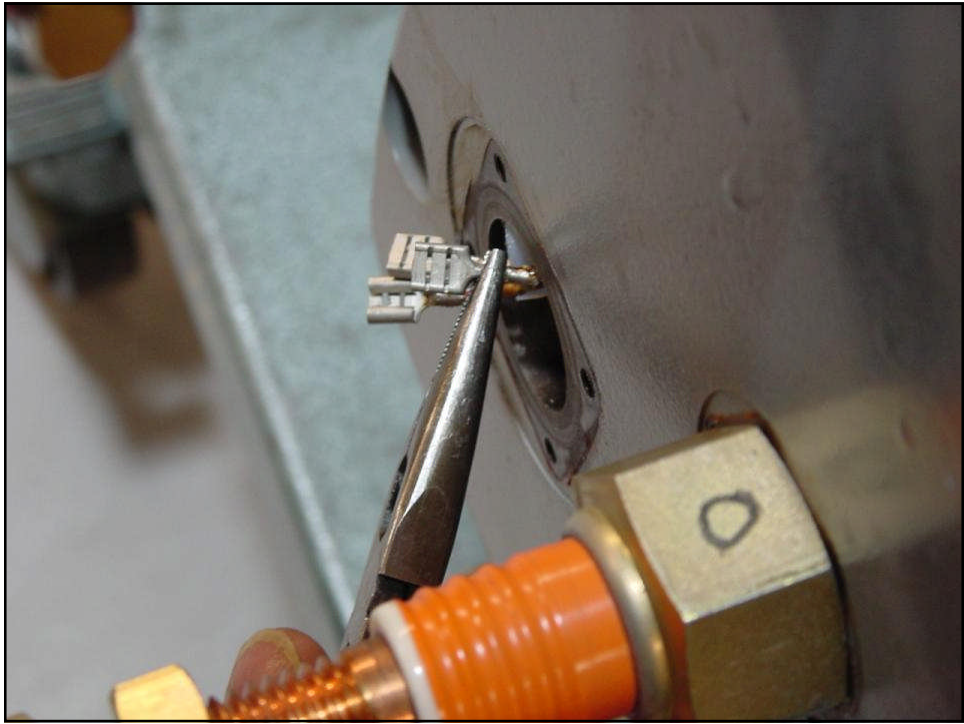


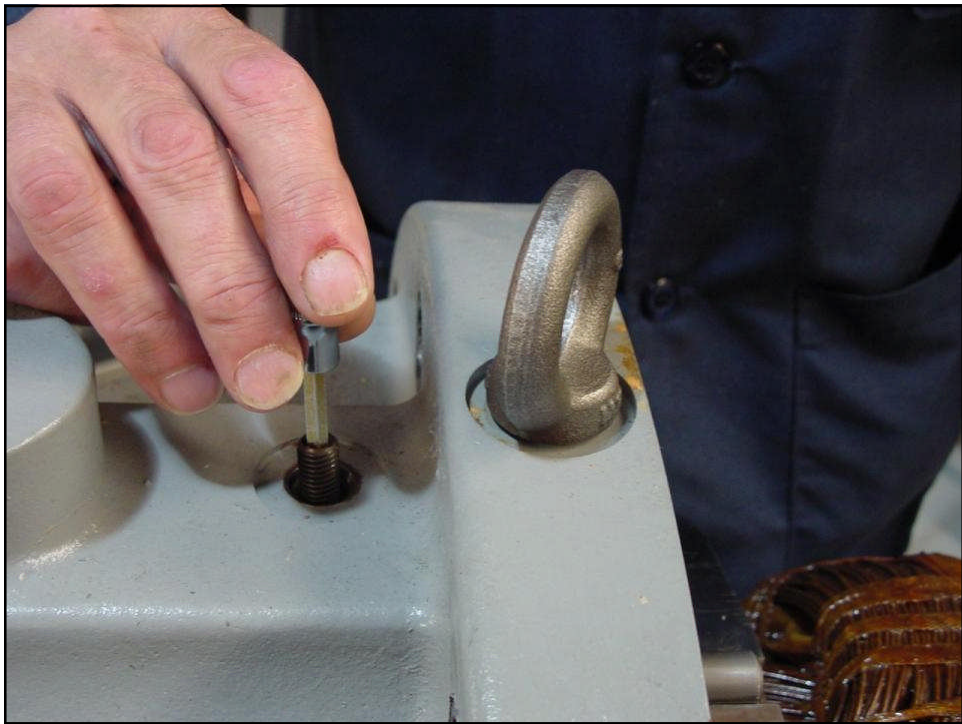


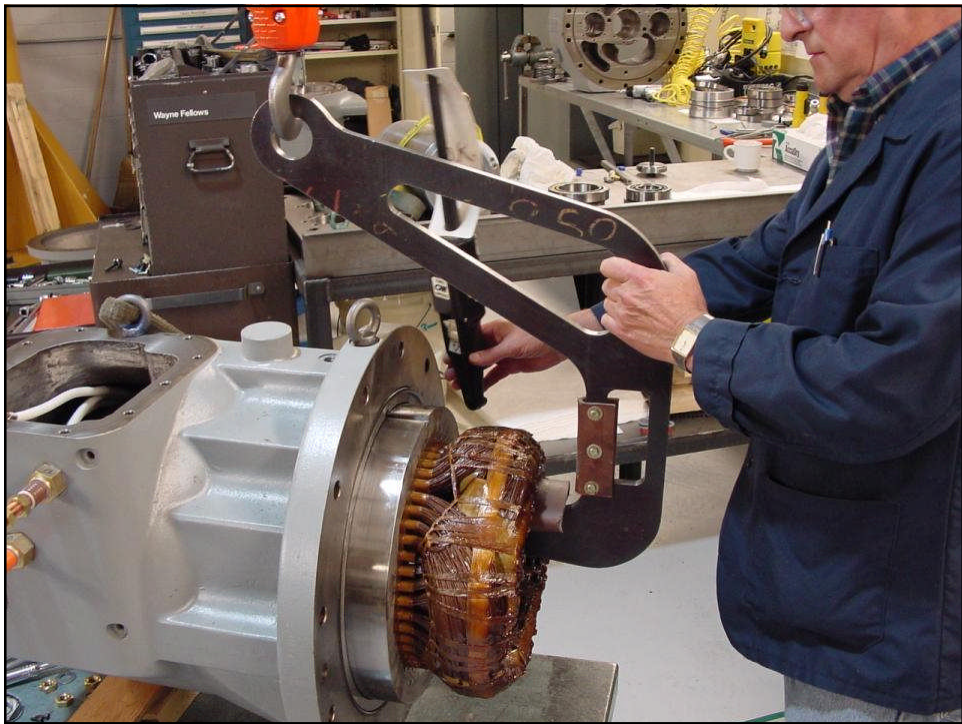
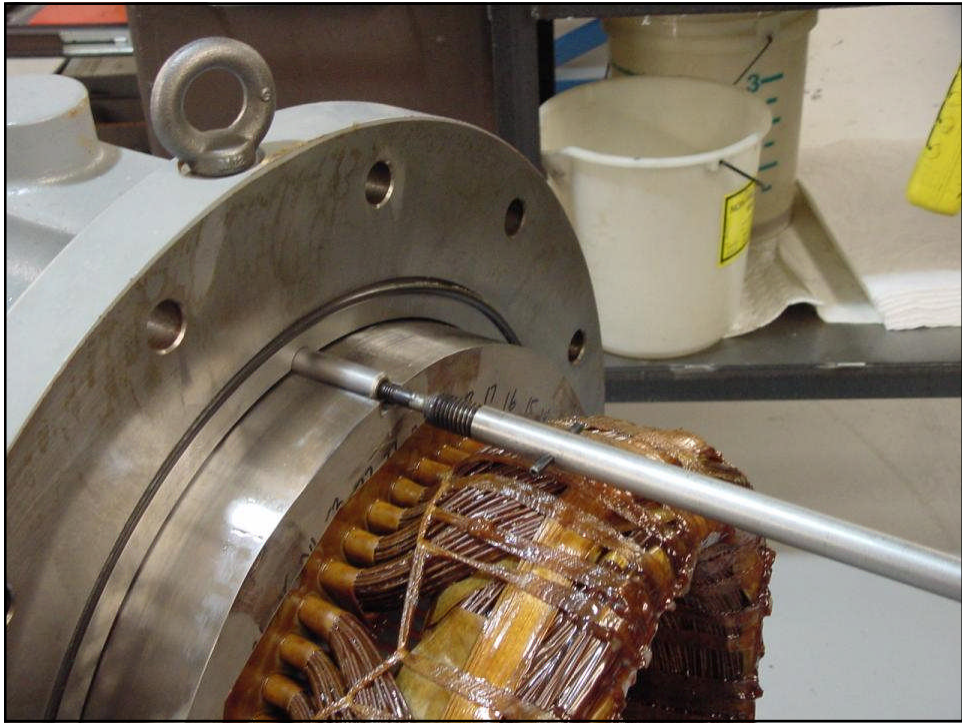




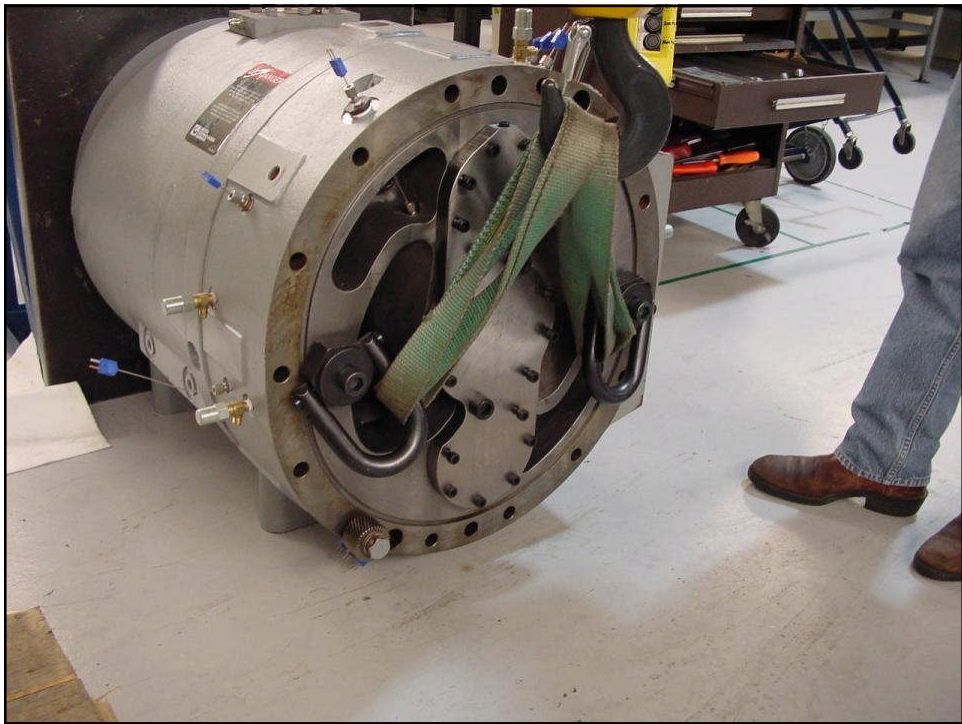
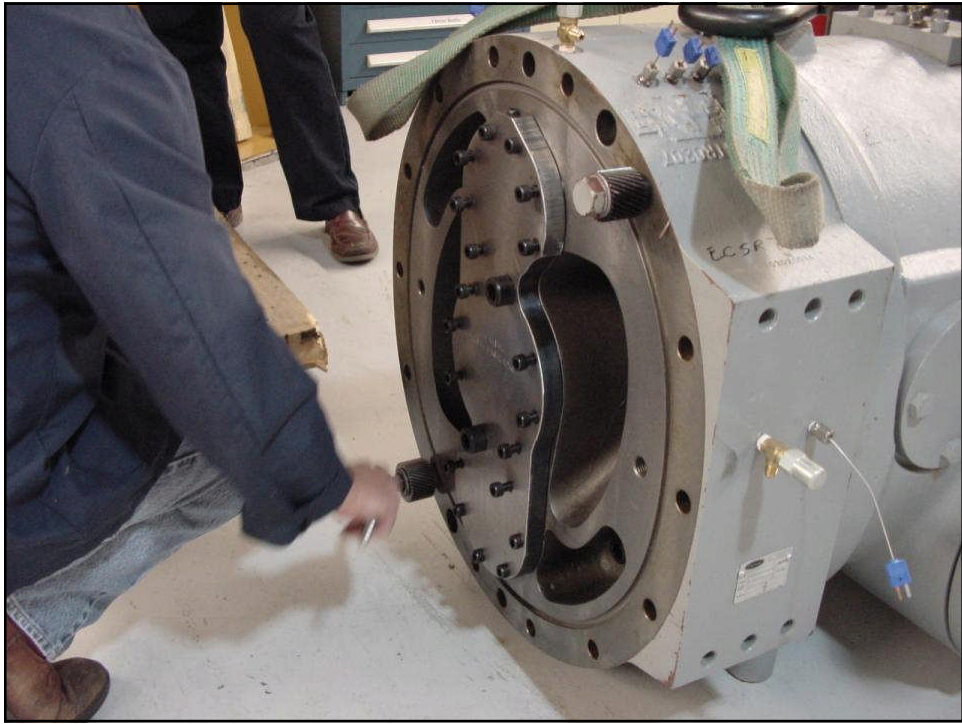






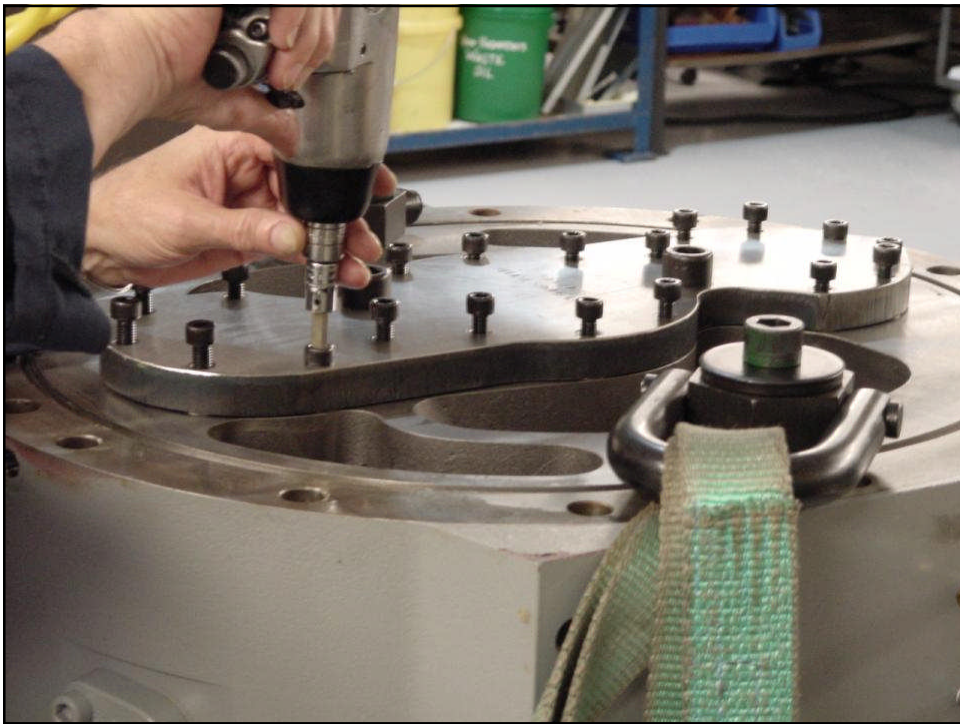
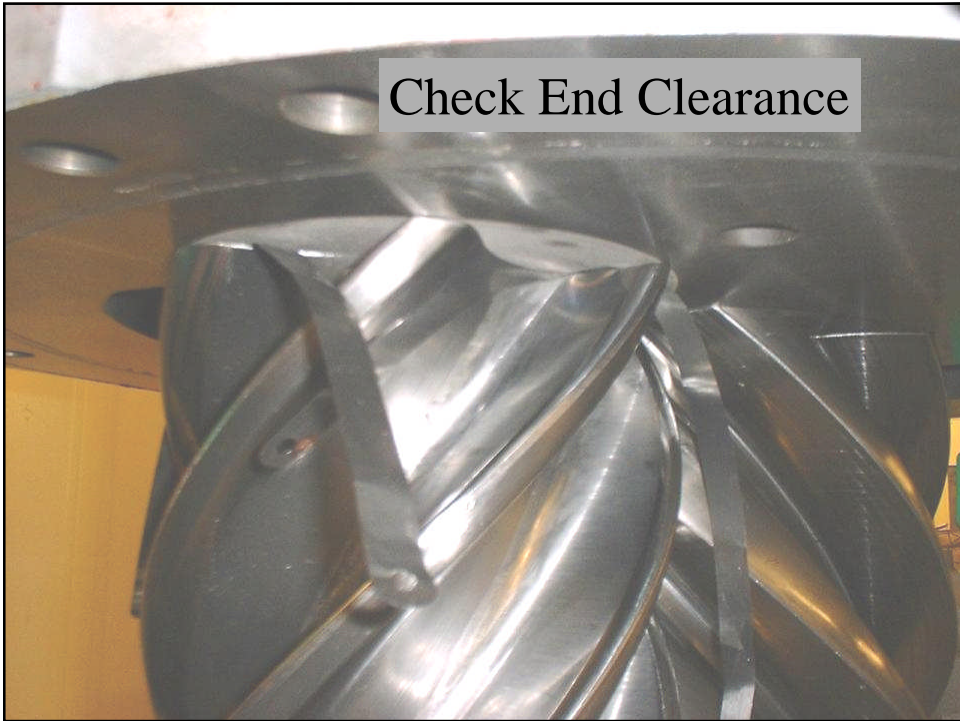




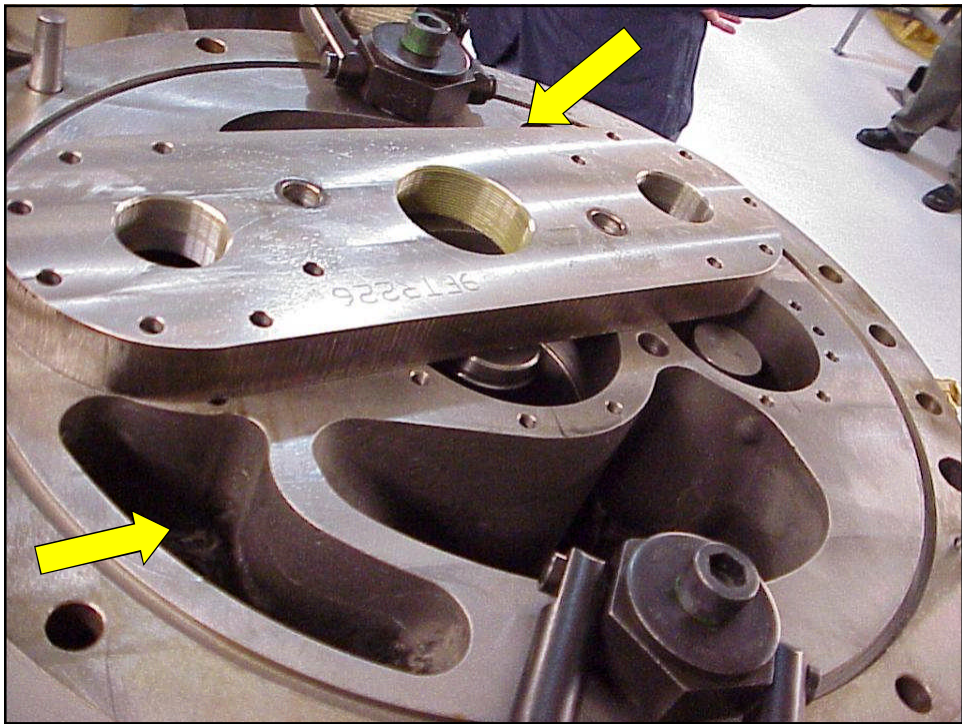
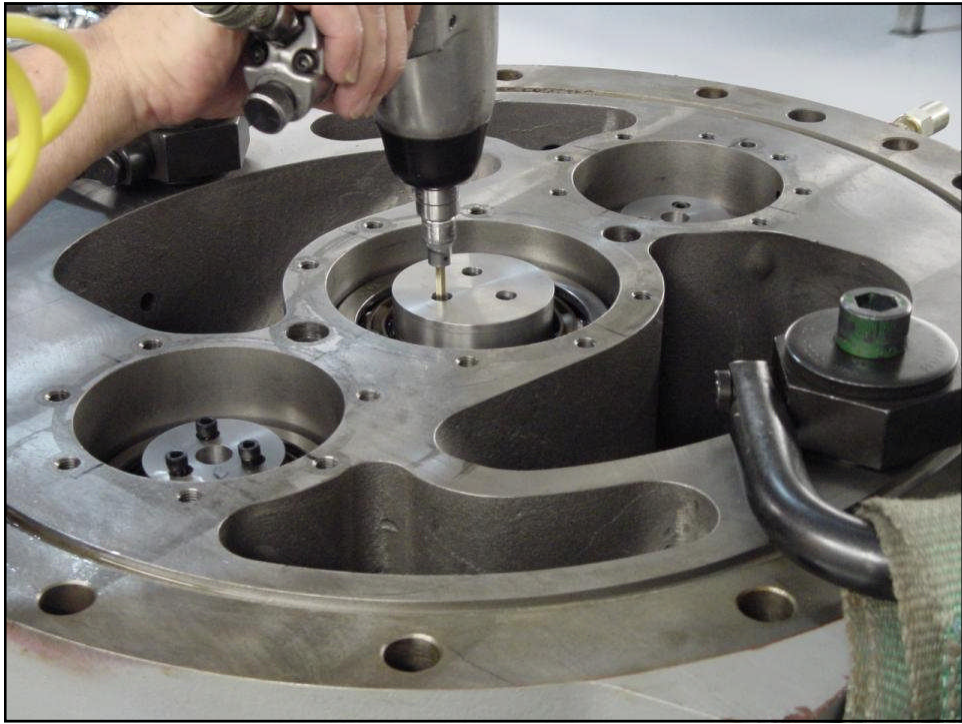




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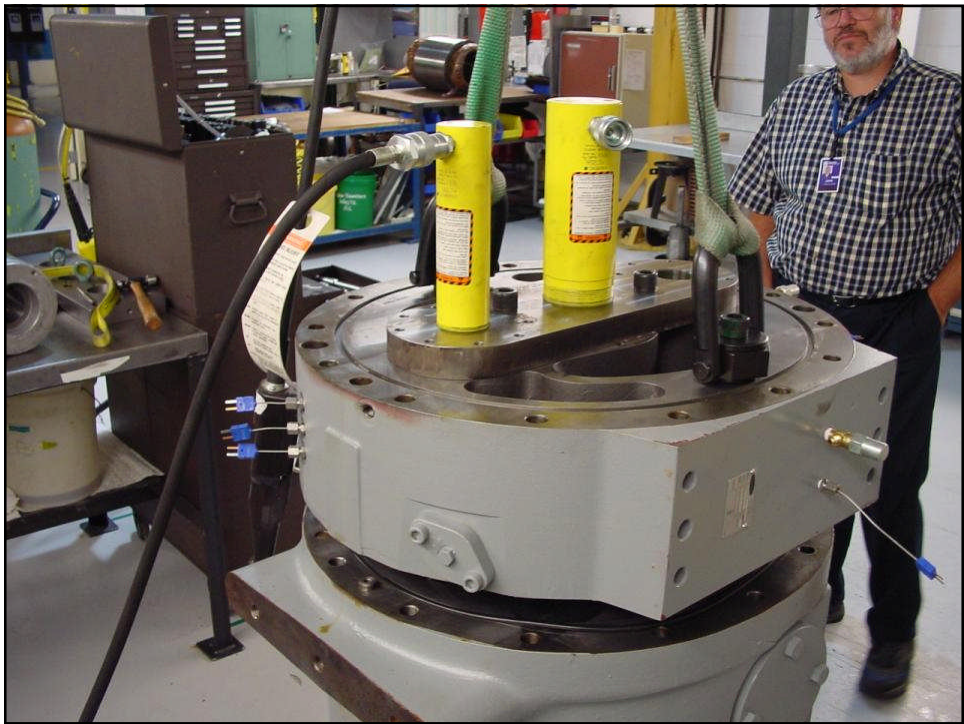


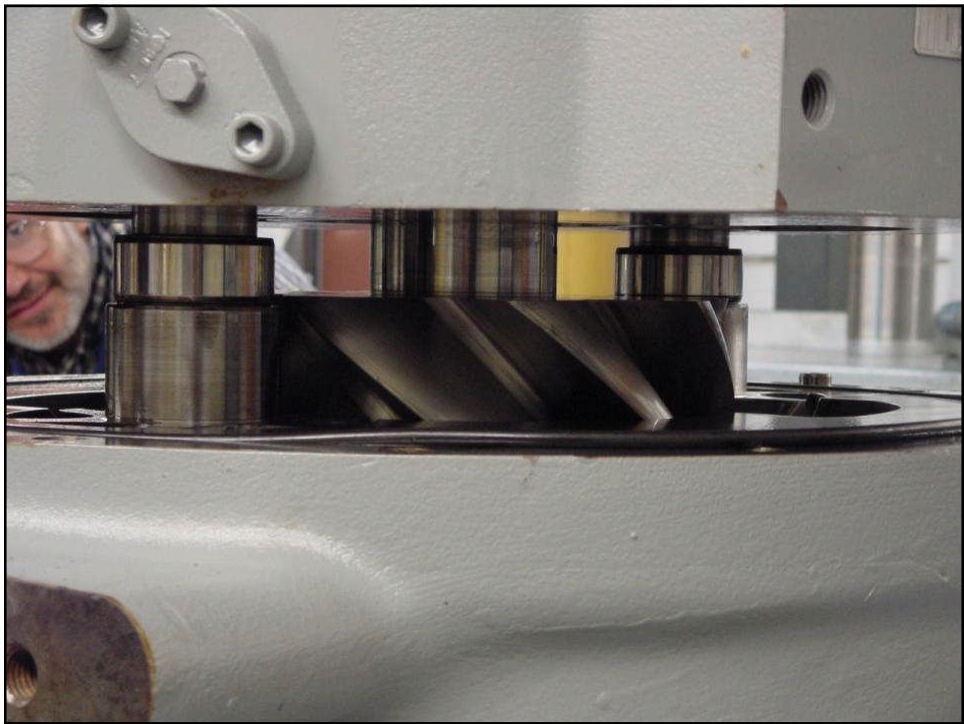
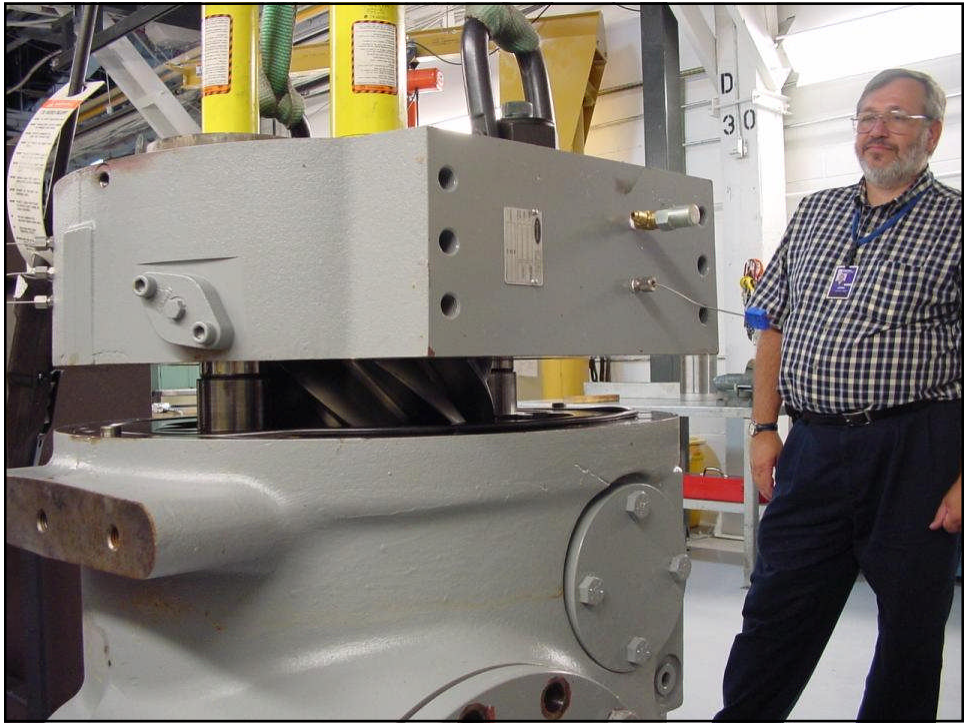


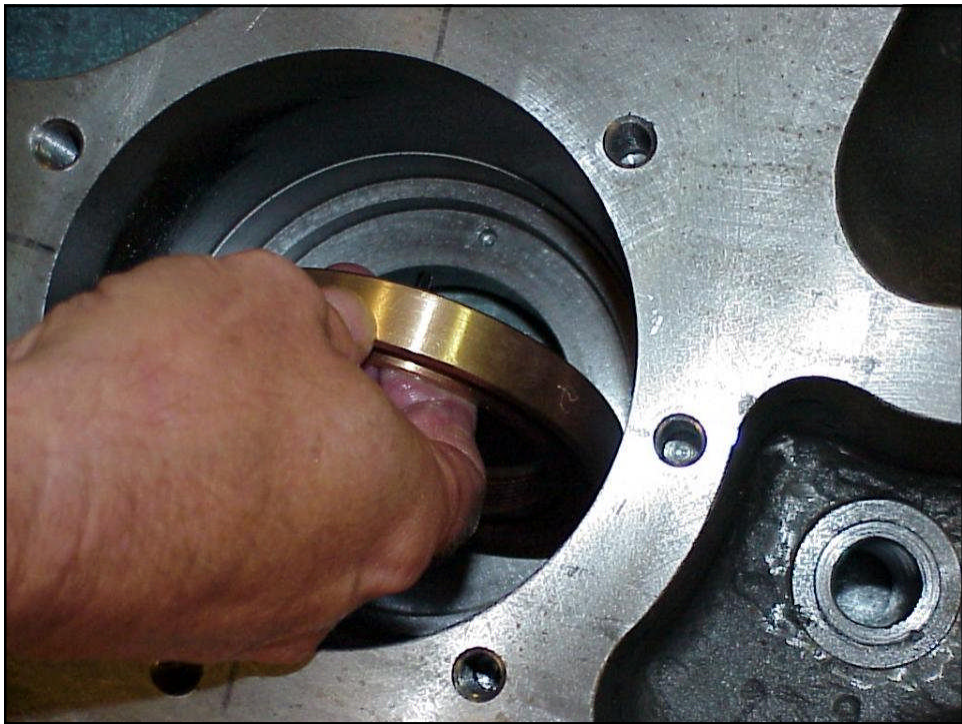
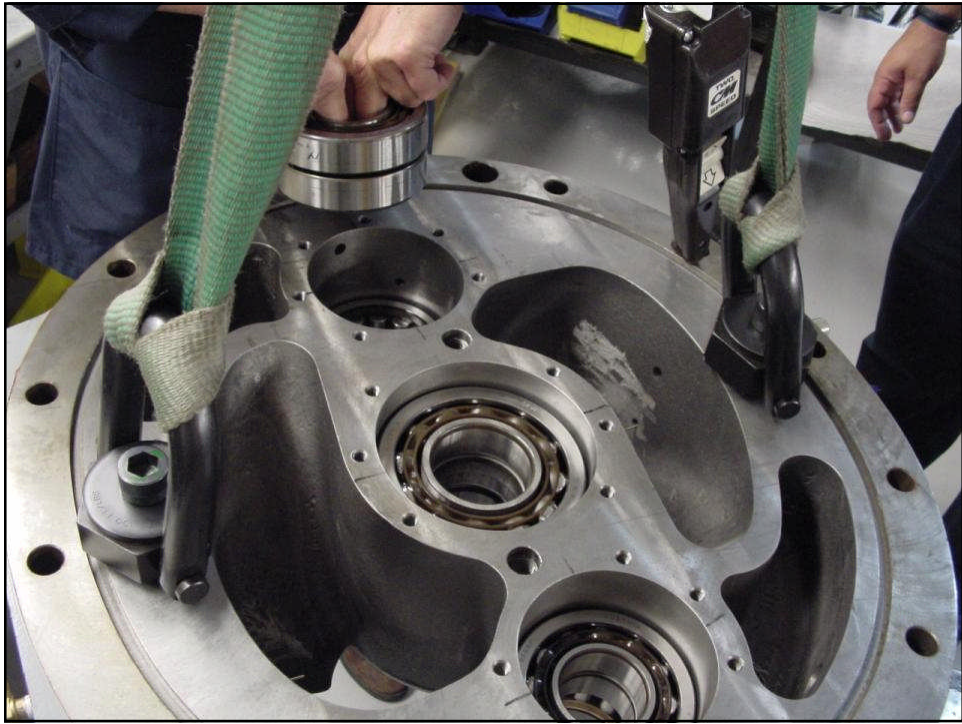




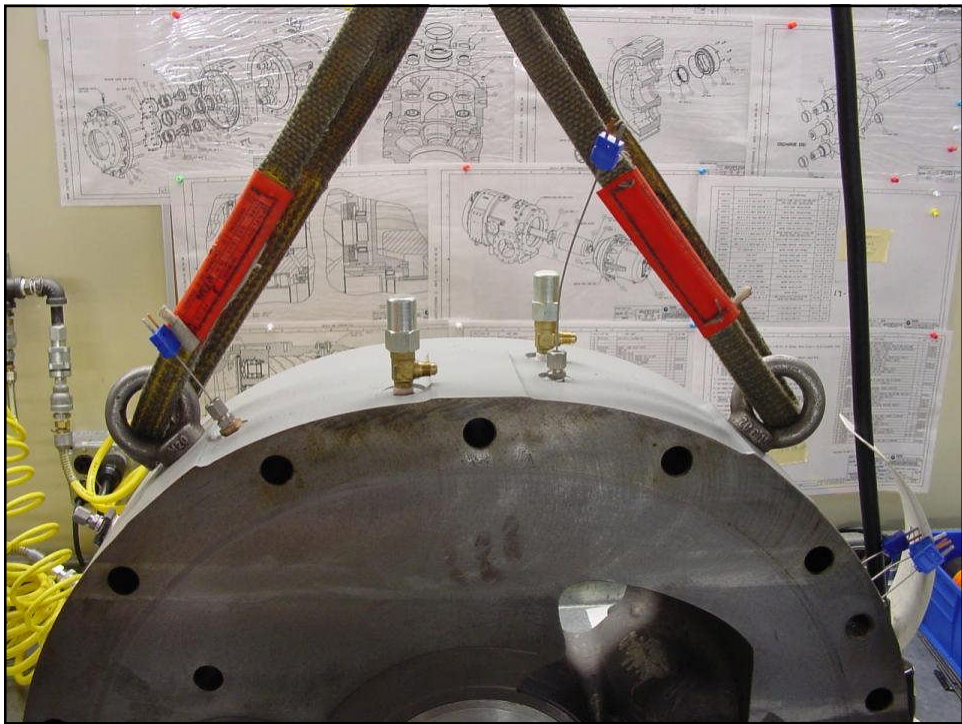
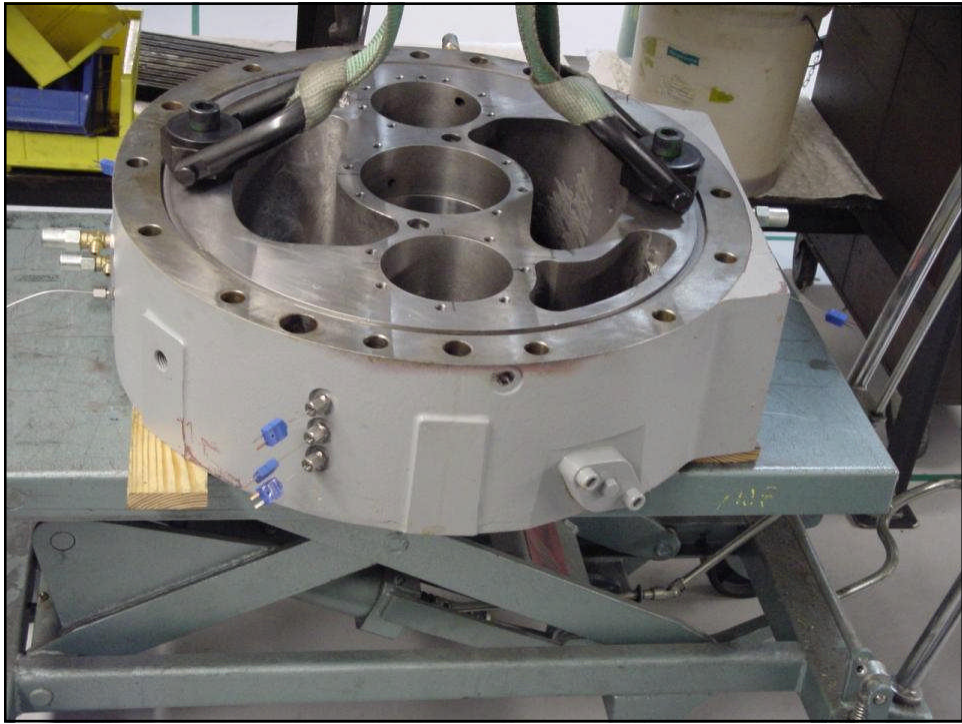
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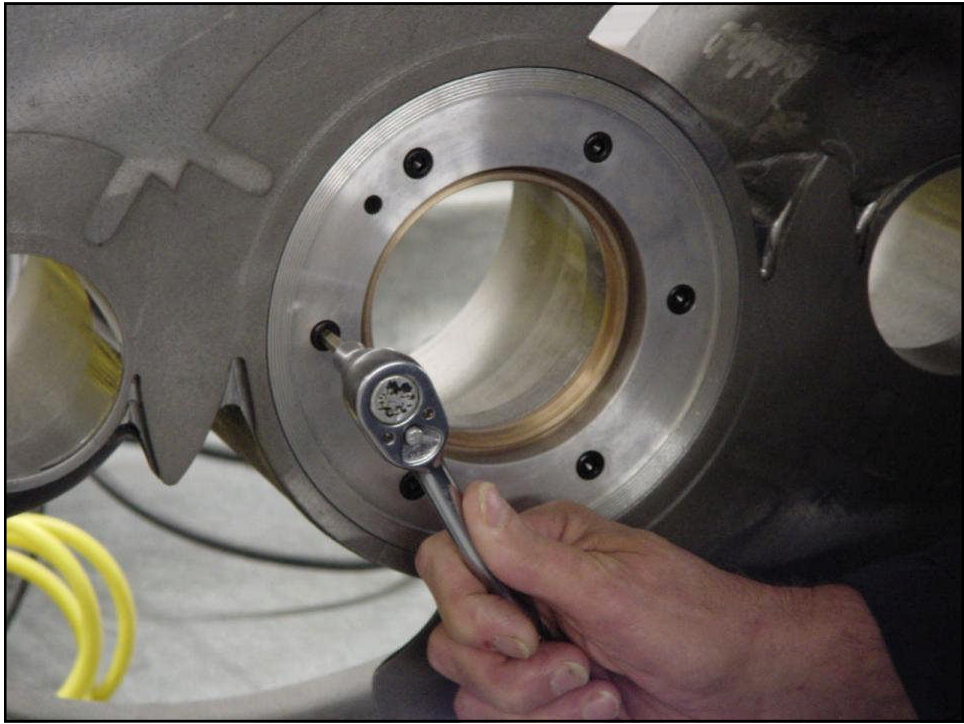


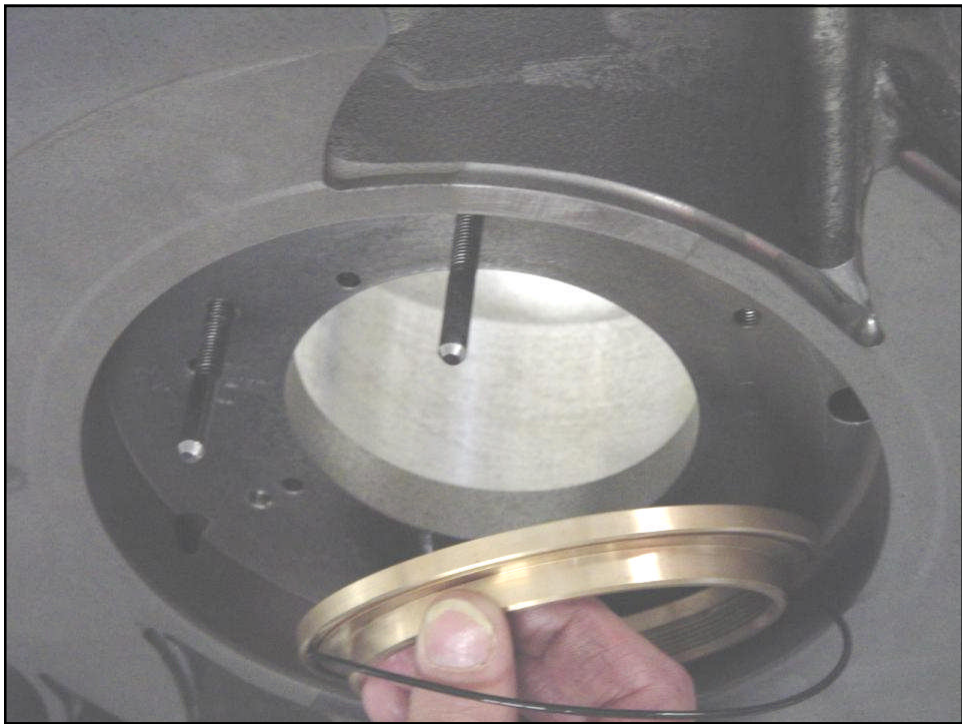
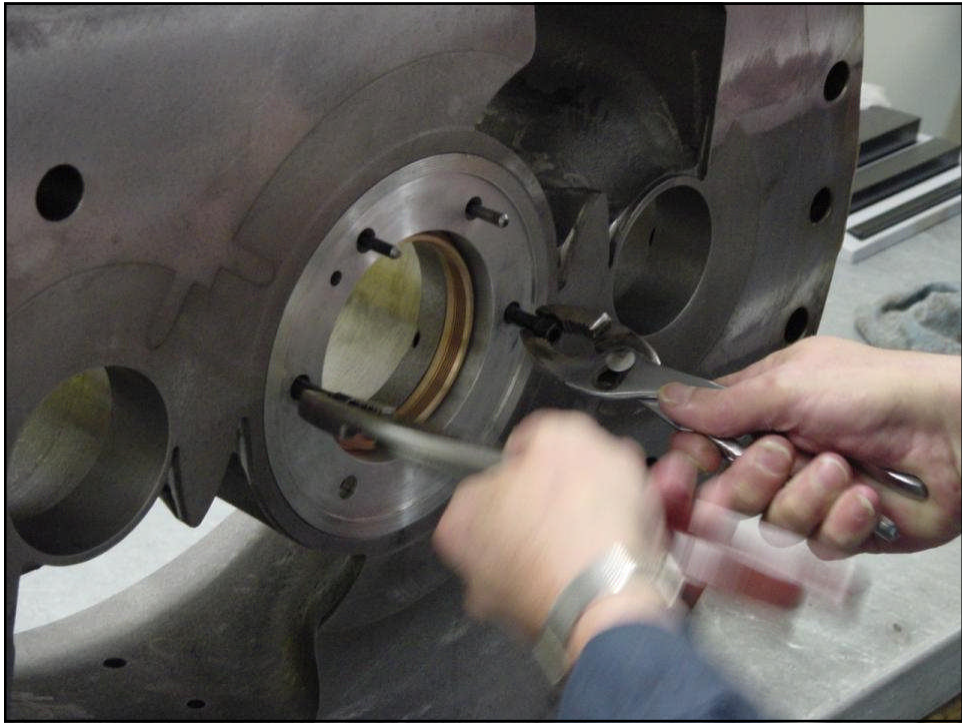


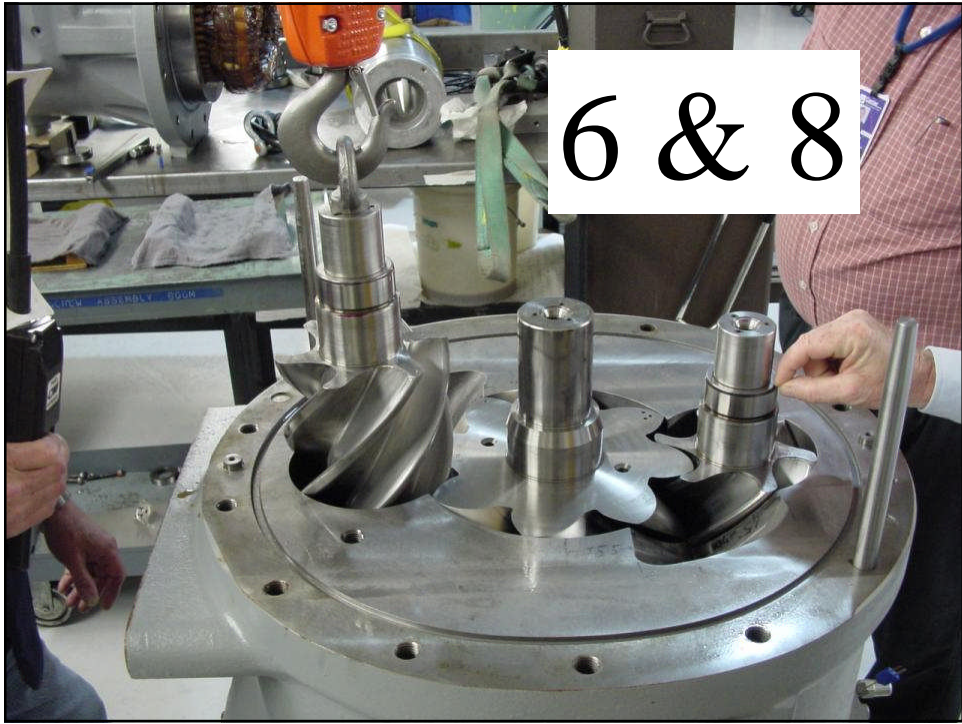


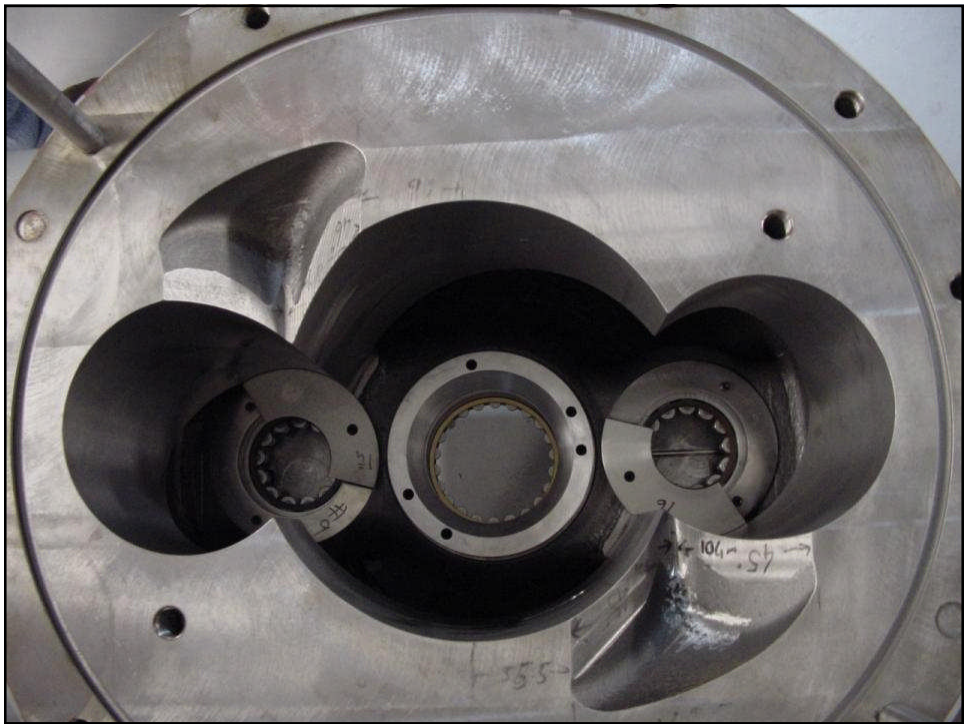
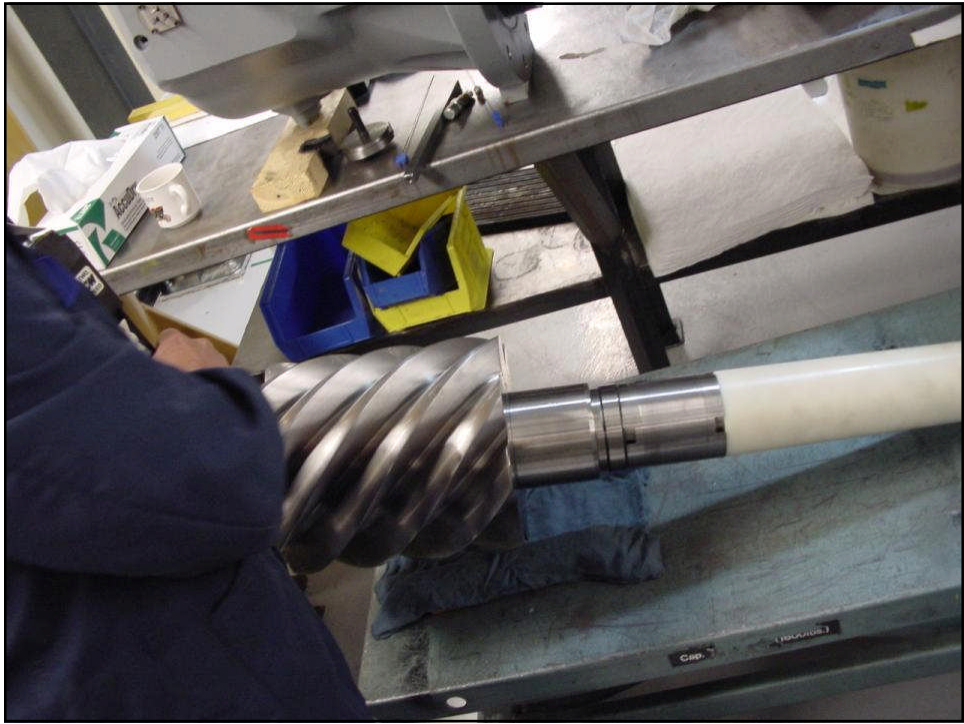






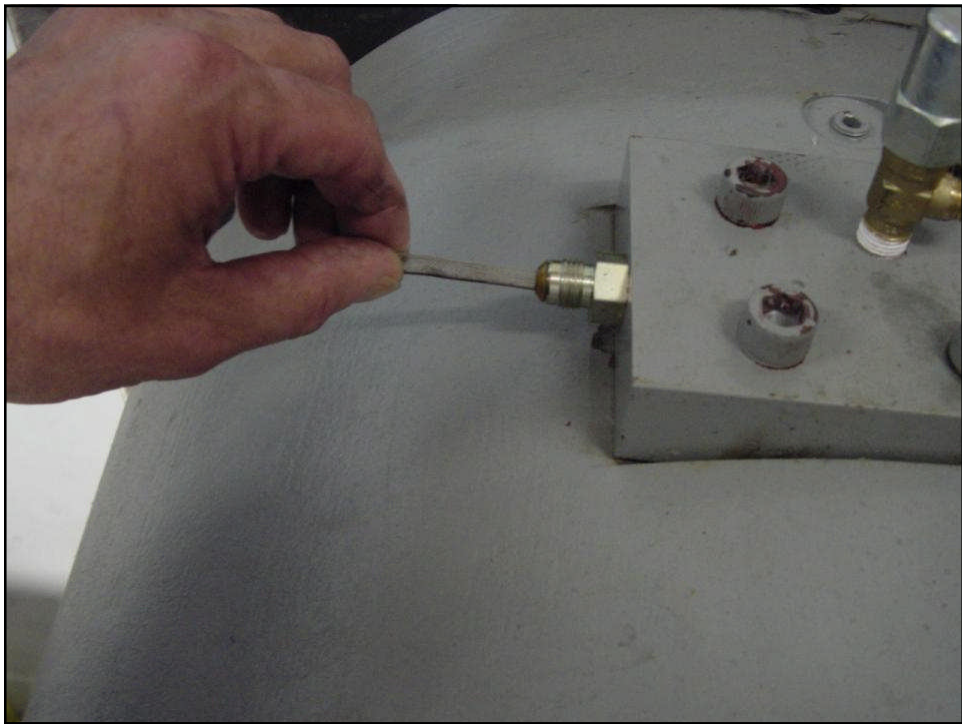
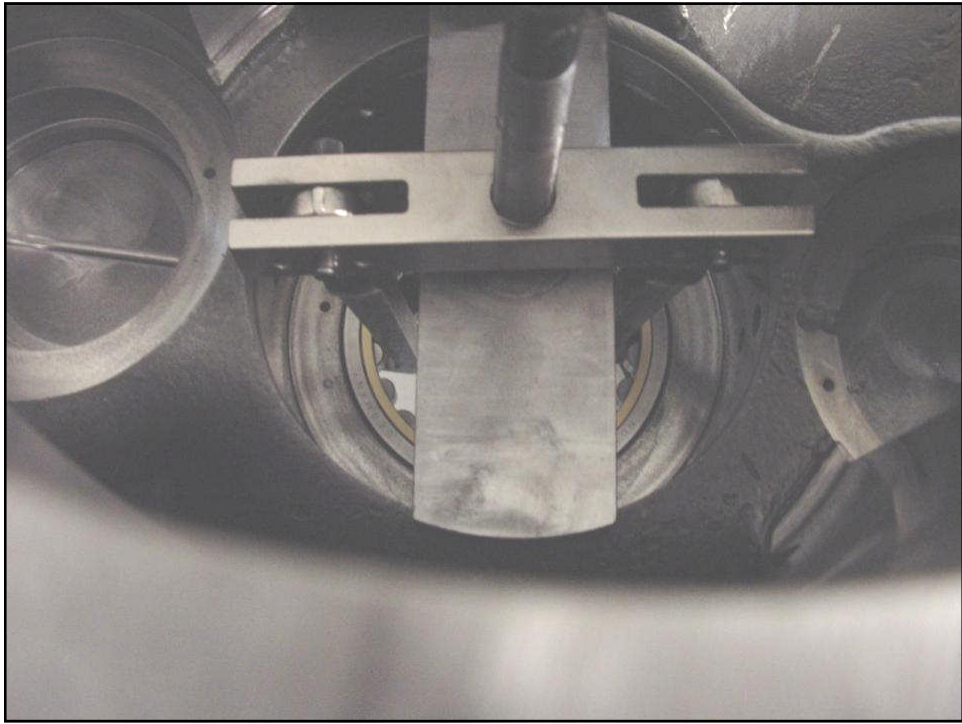


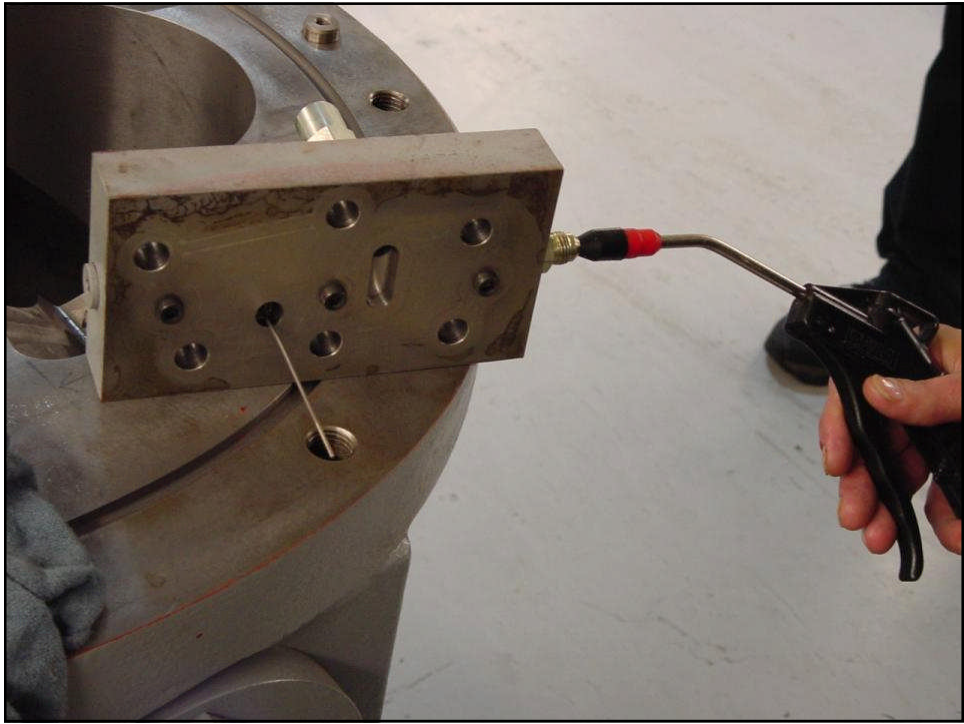


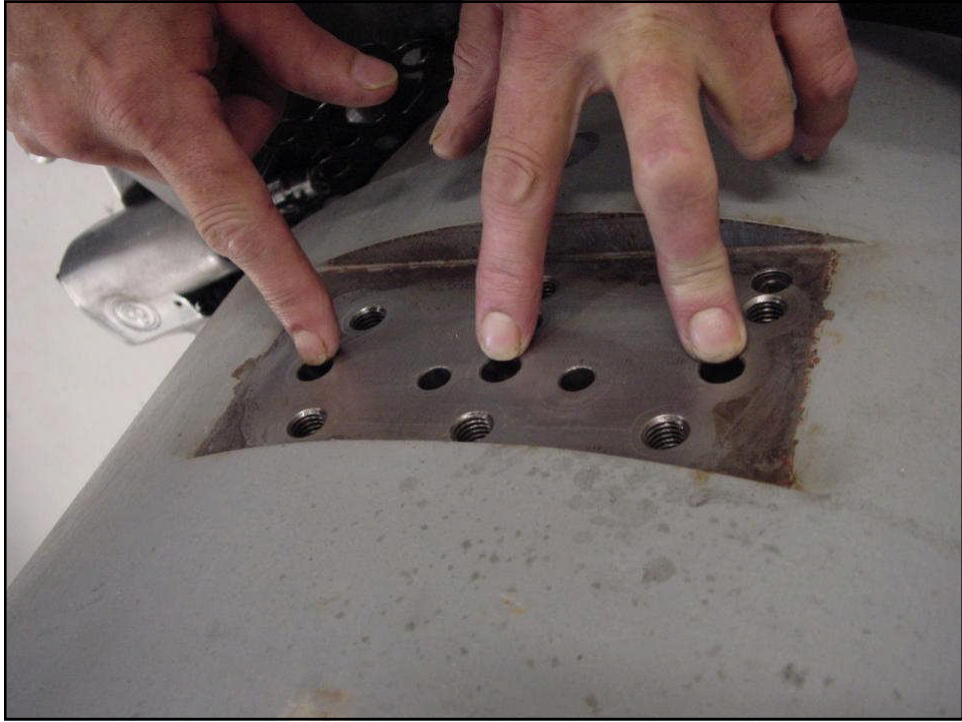










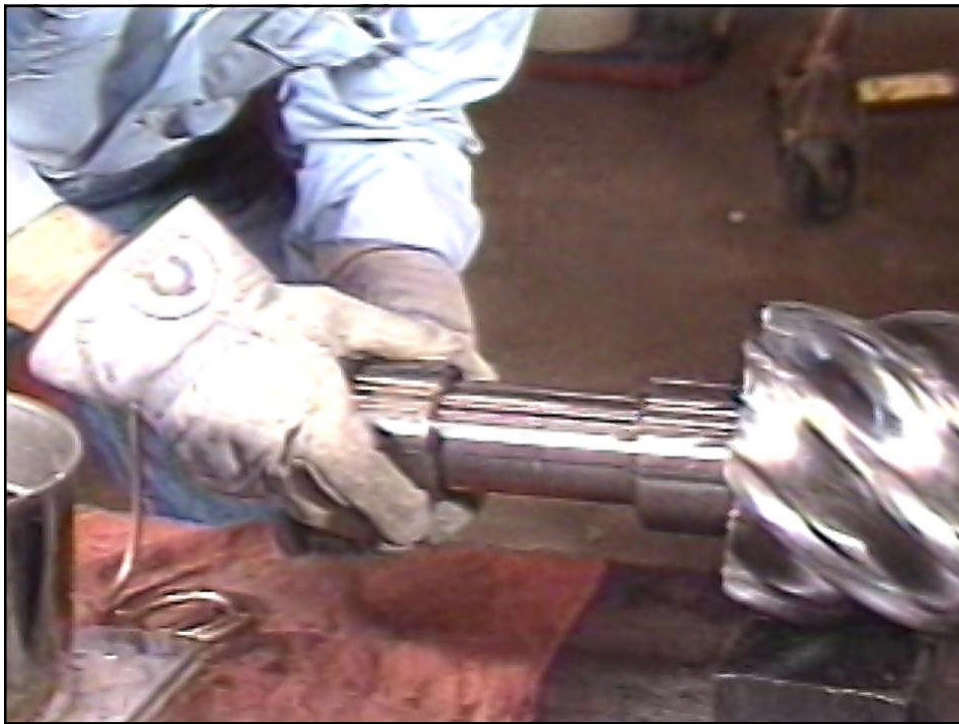
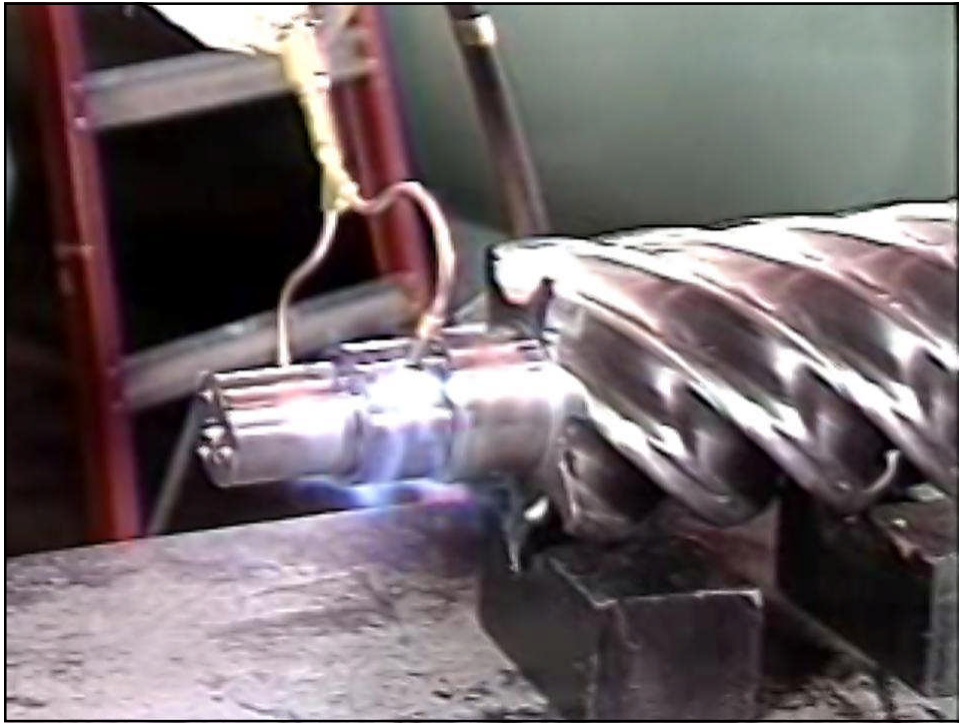




Picture of normal bearing wear



72.



Show a picture of inserting the outer races.

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75.

Identify the rotors

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76.

Picture of pulling the male bearing components out of box.

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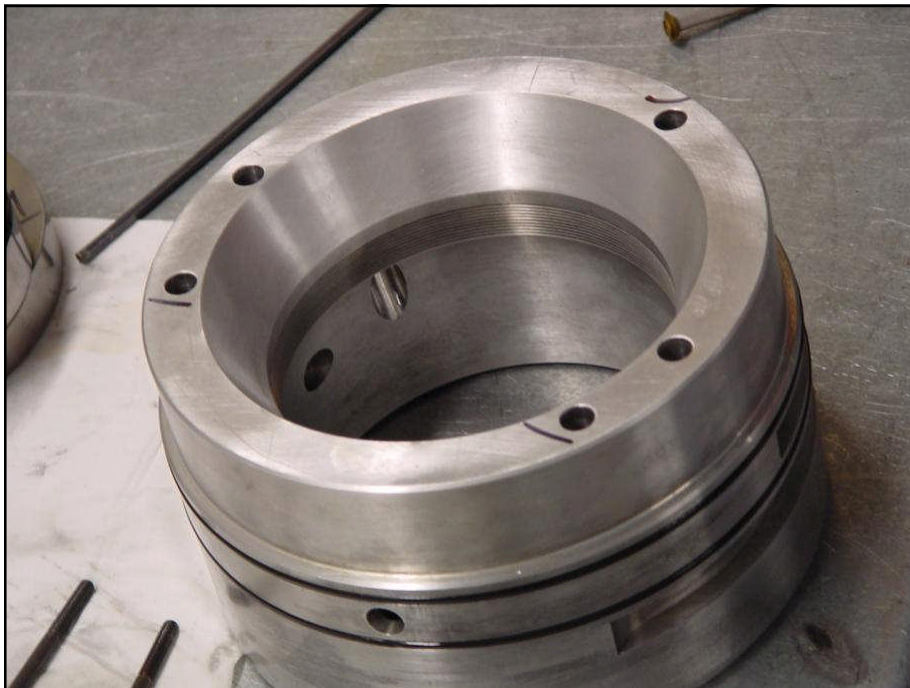
77.



Insert outer race

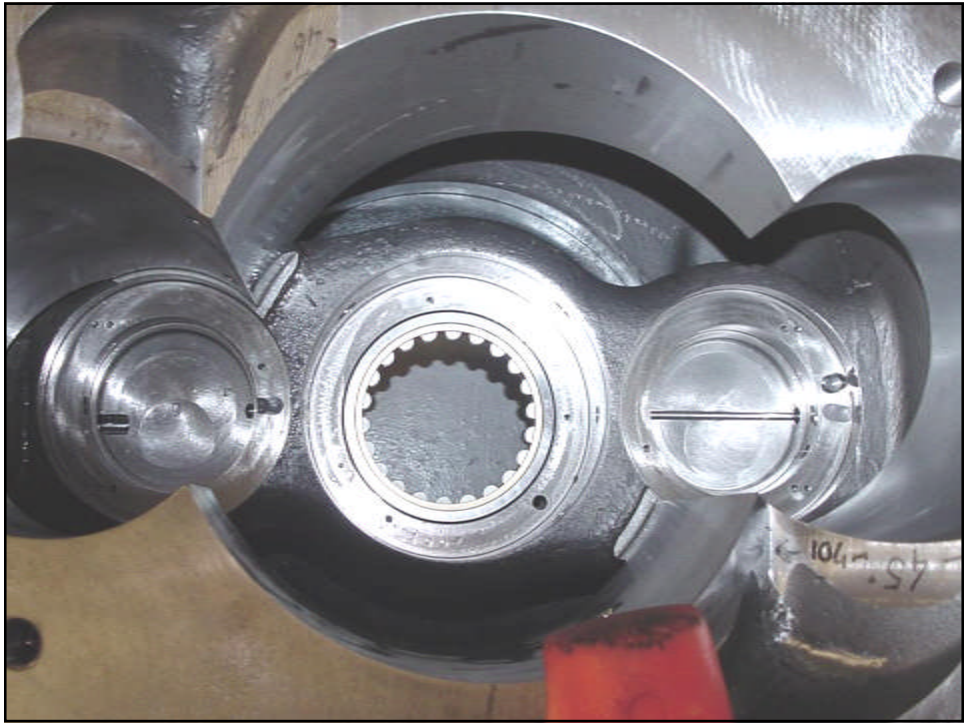
Copyright Carrier Corp. 2003

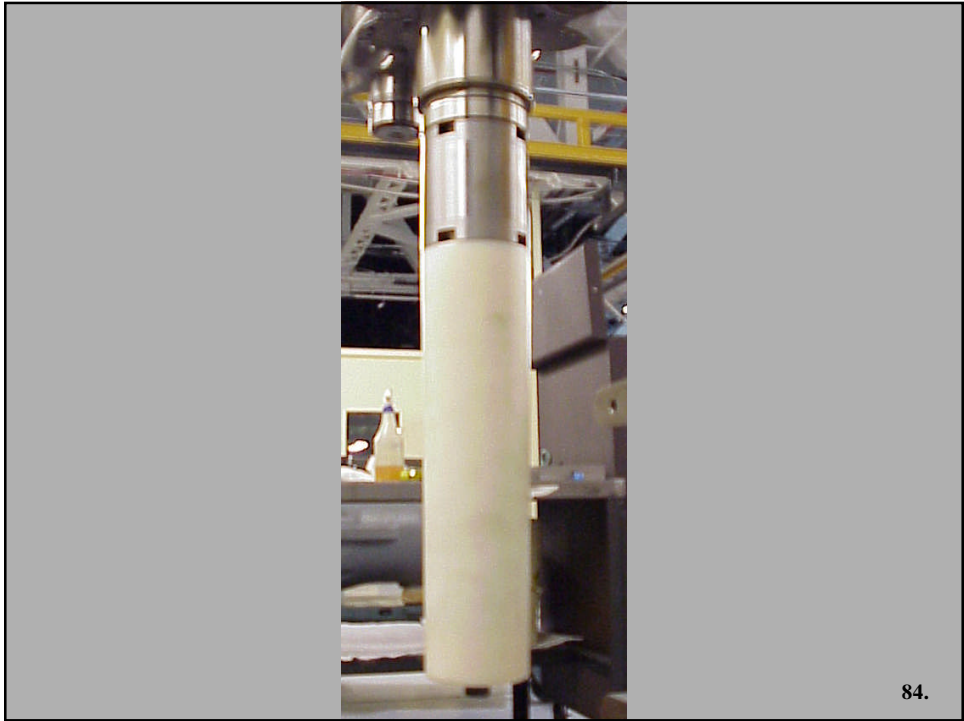
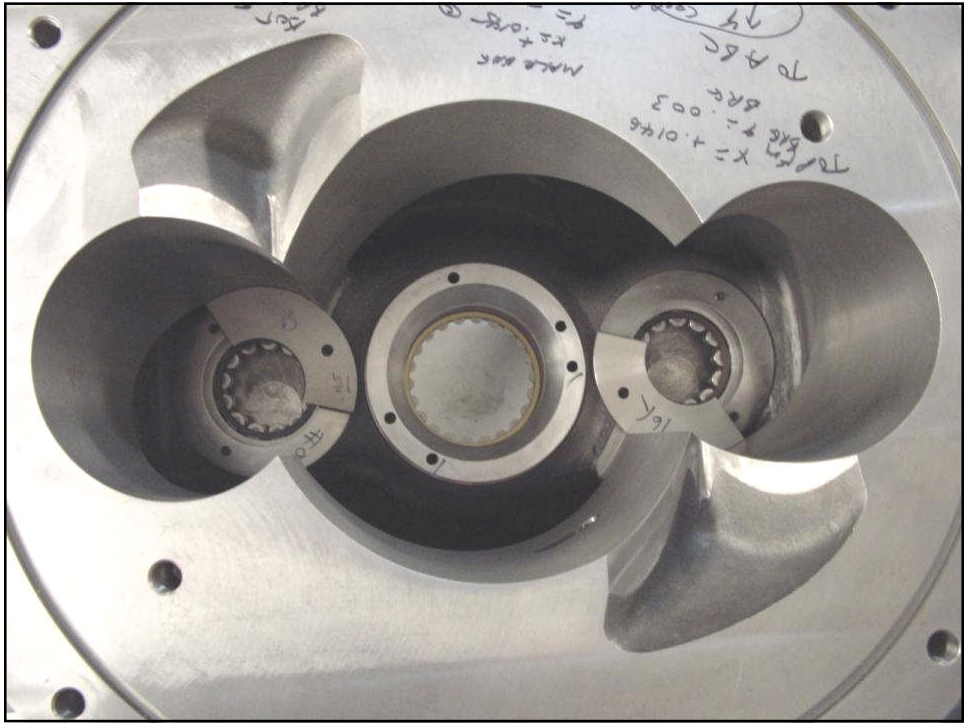
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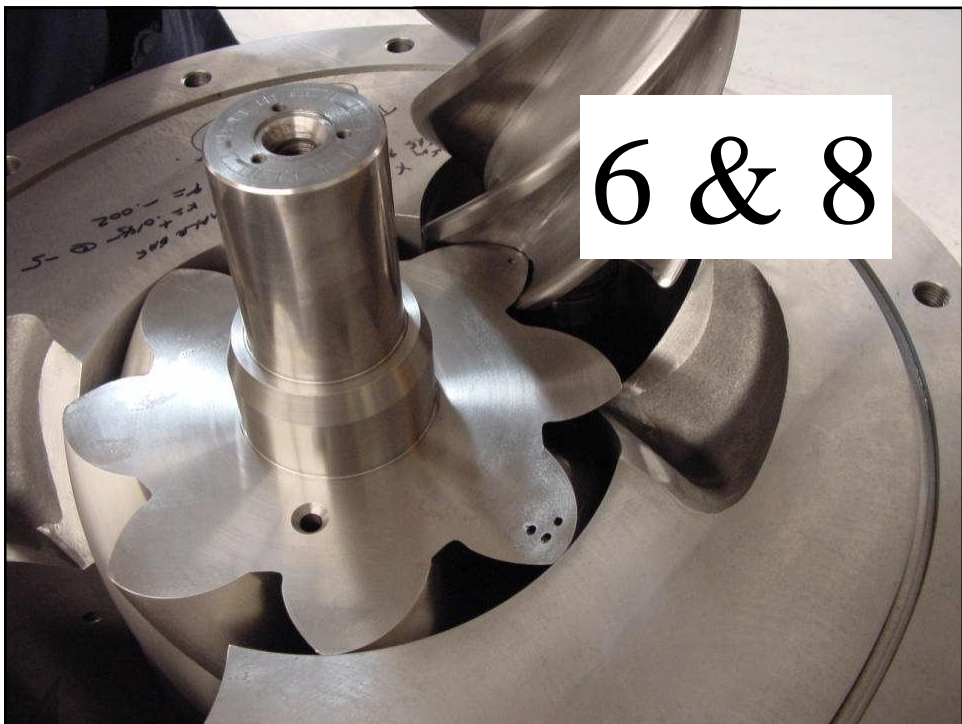
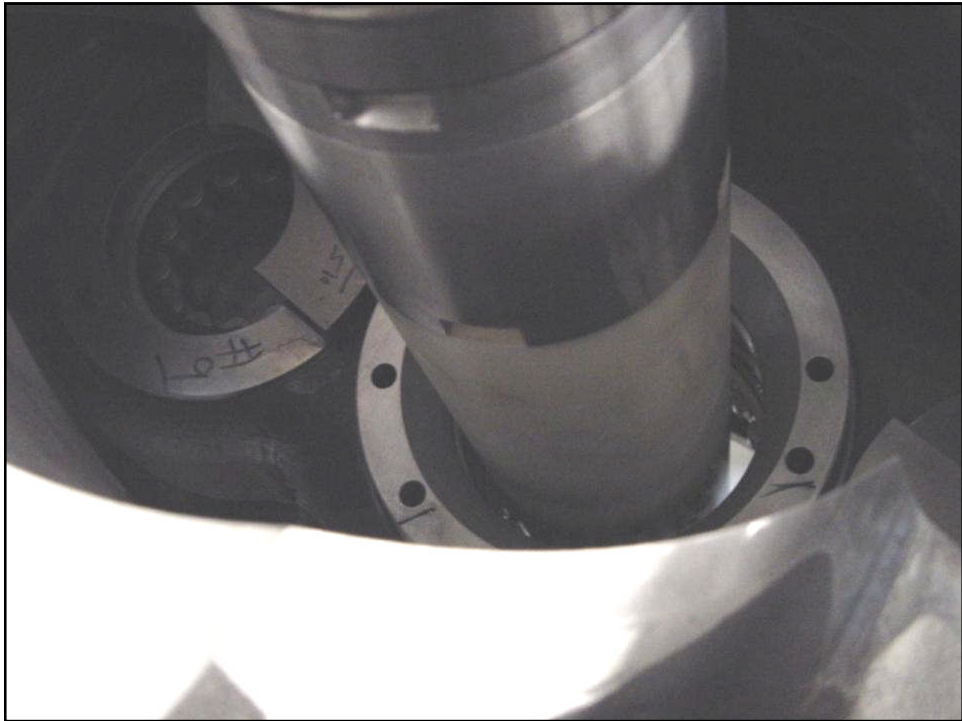


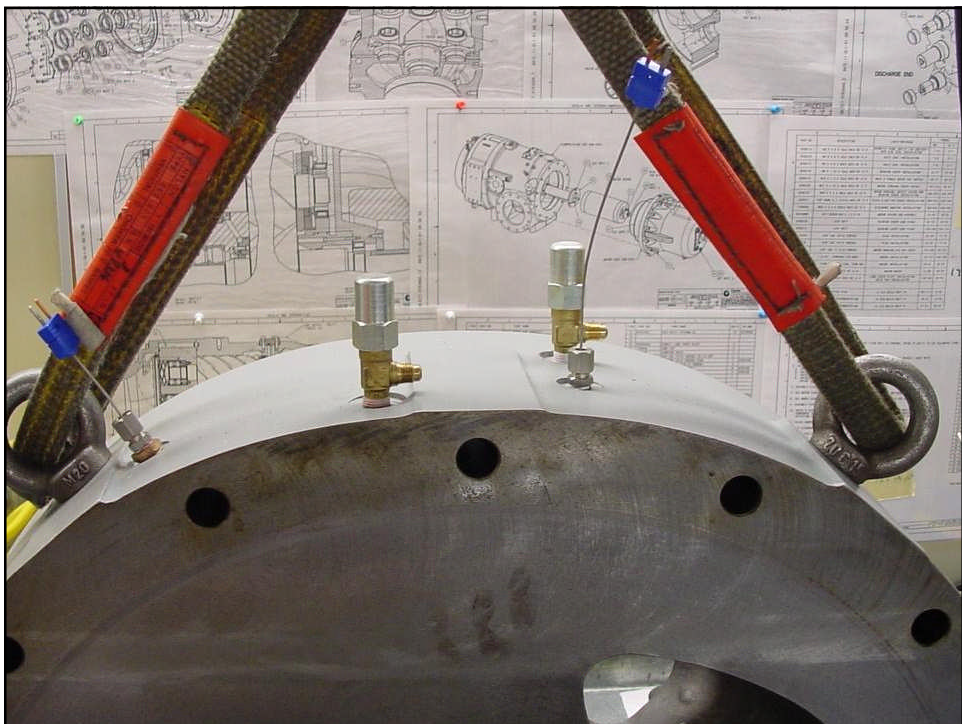
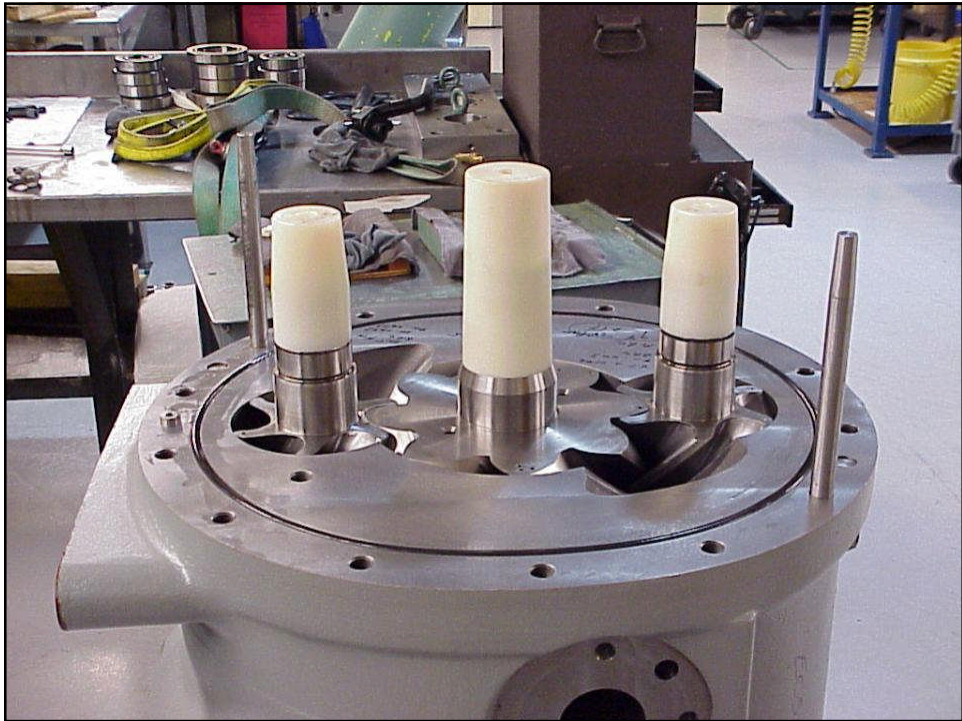
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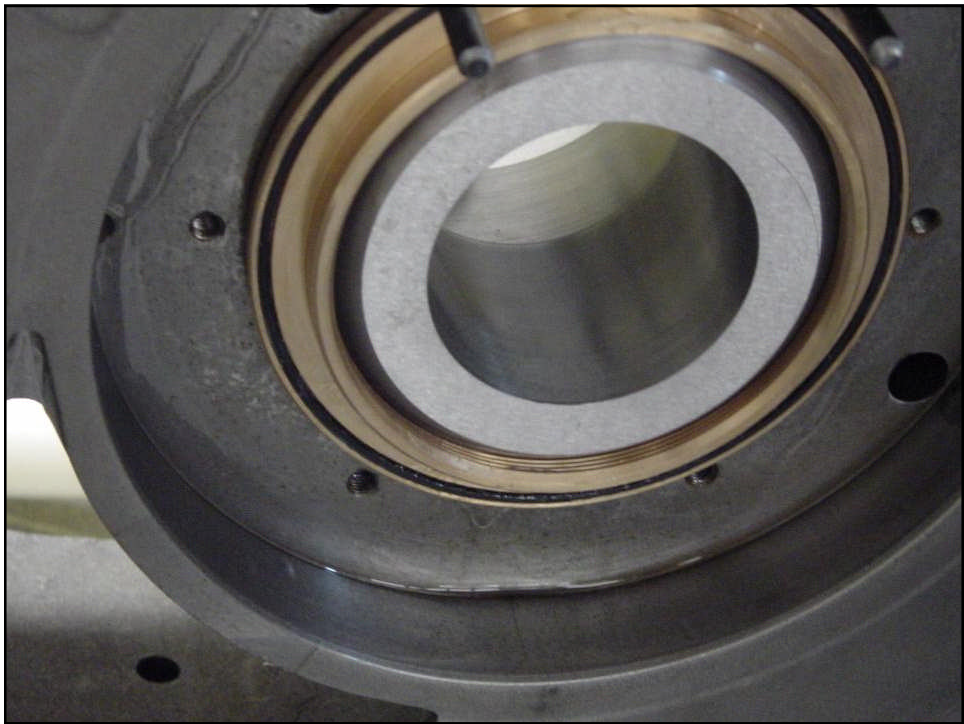
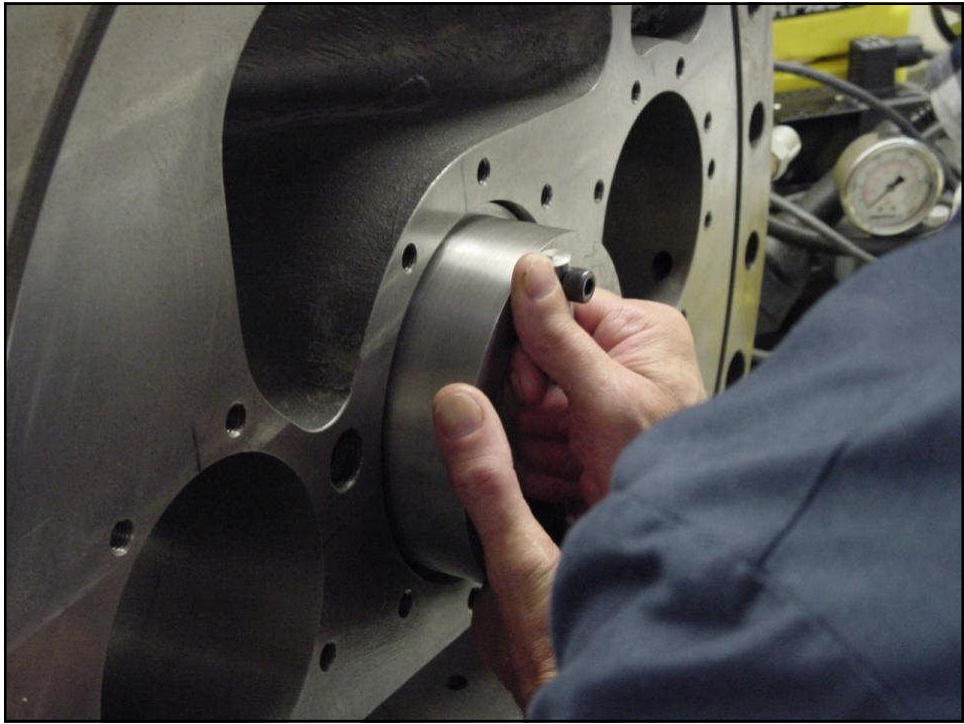
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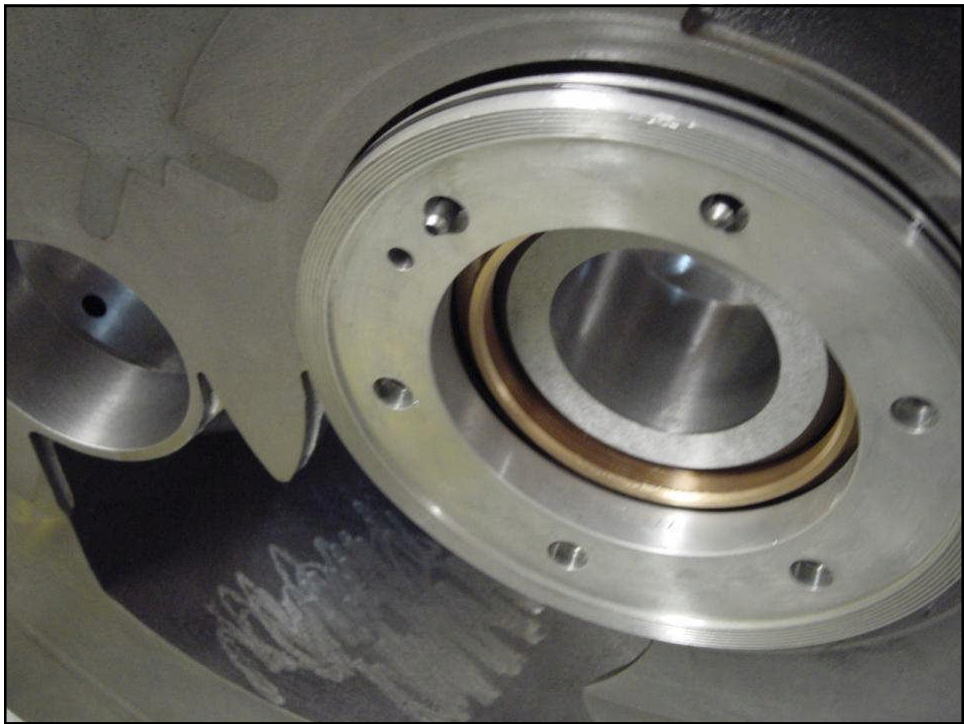


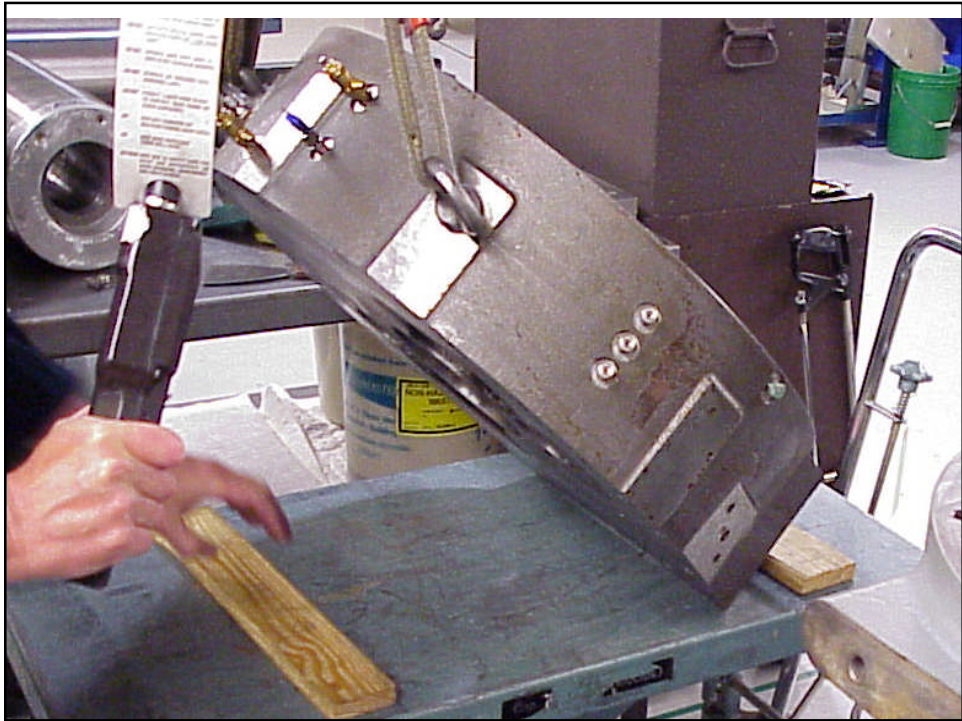
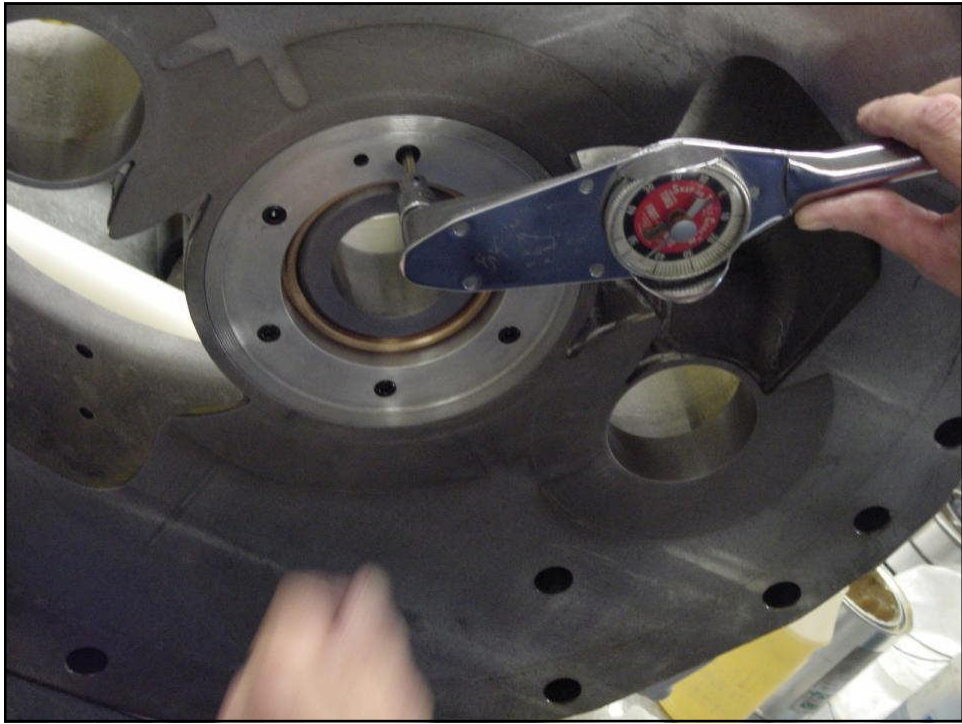


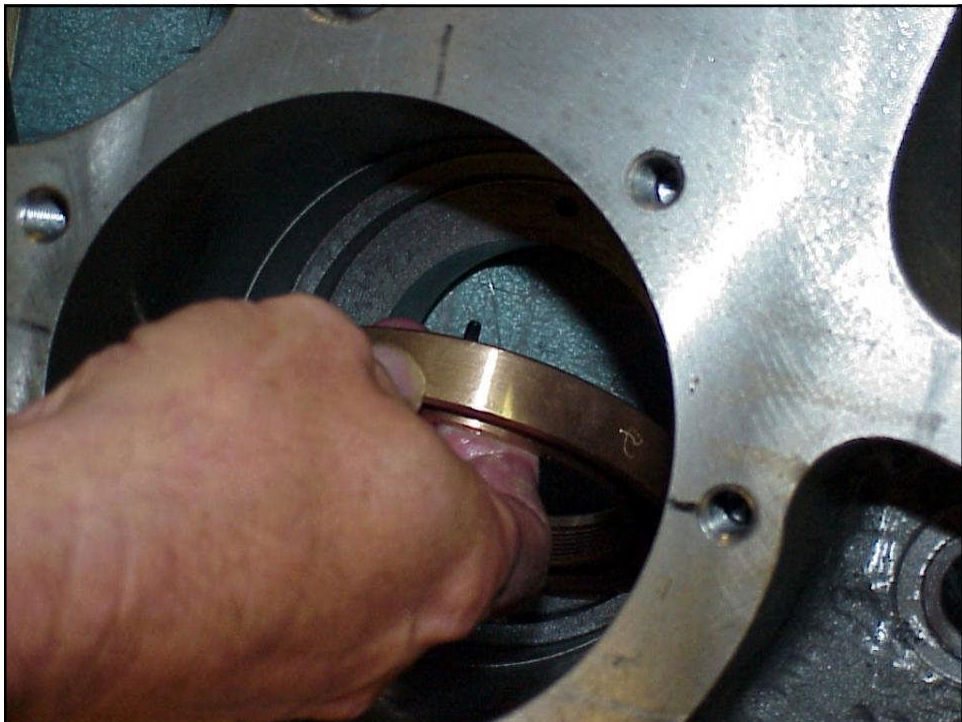
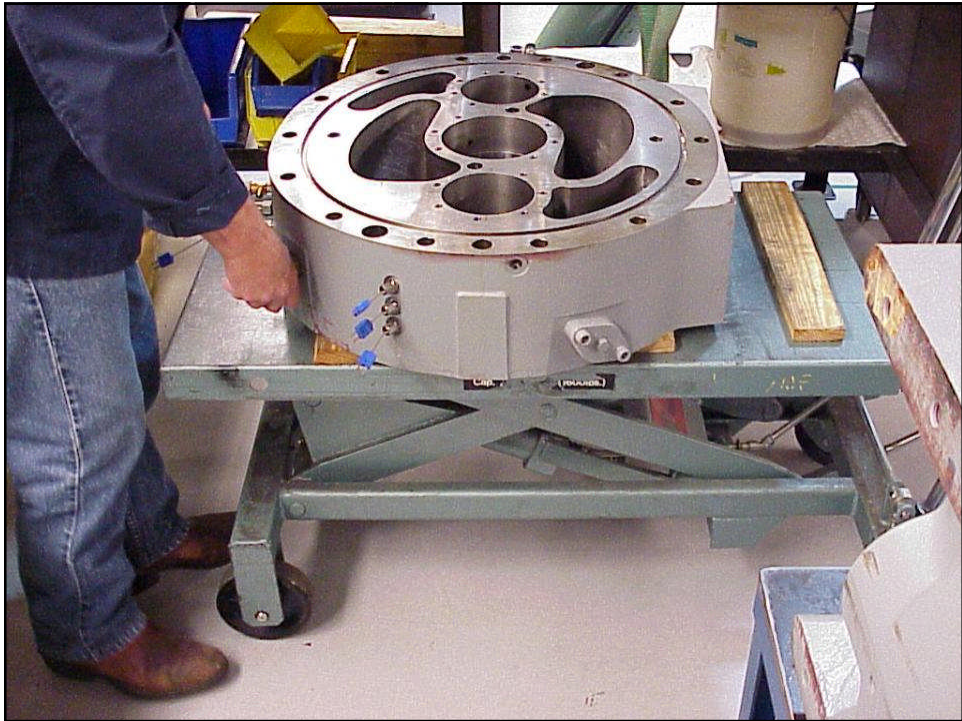


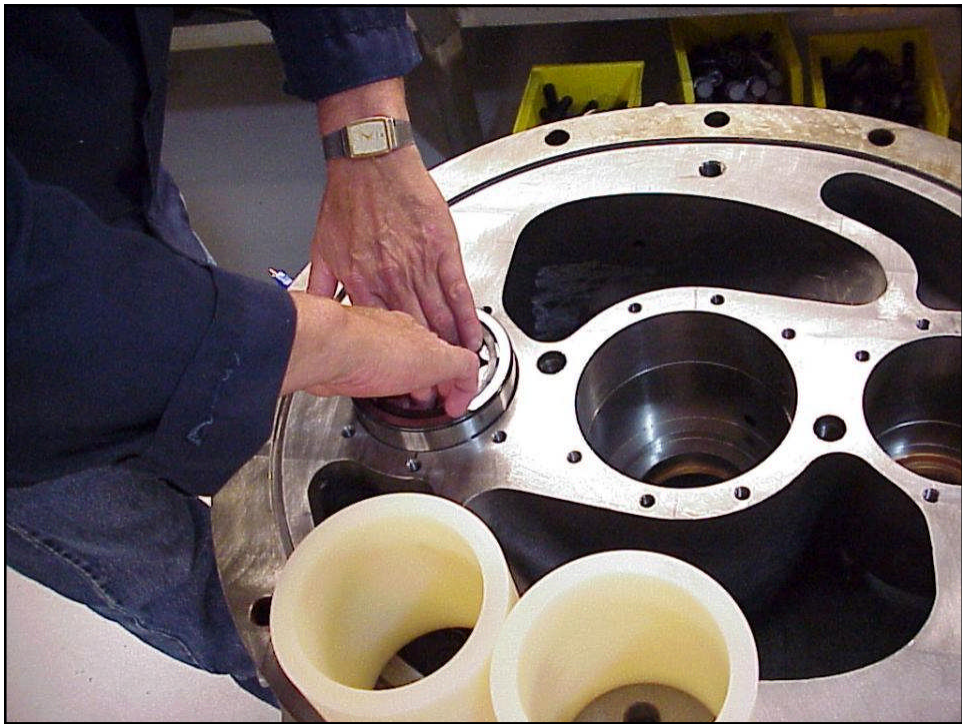
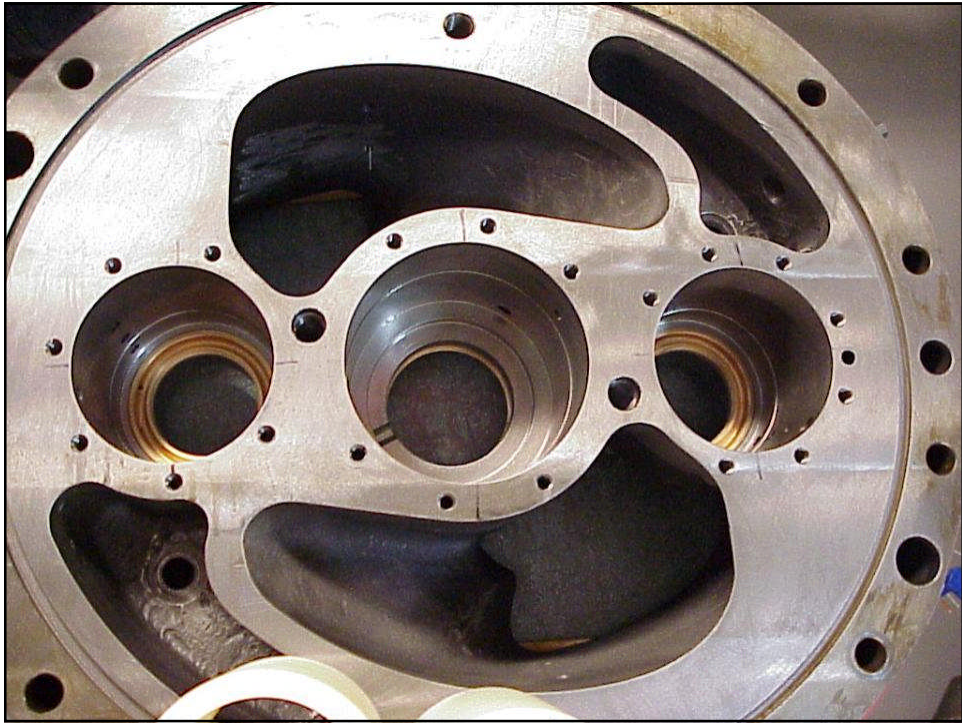


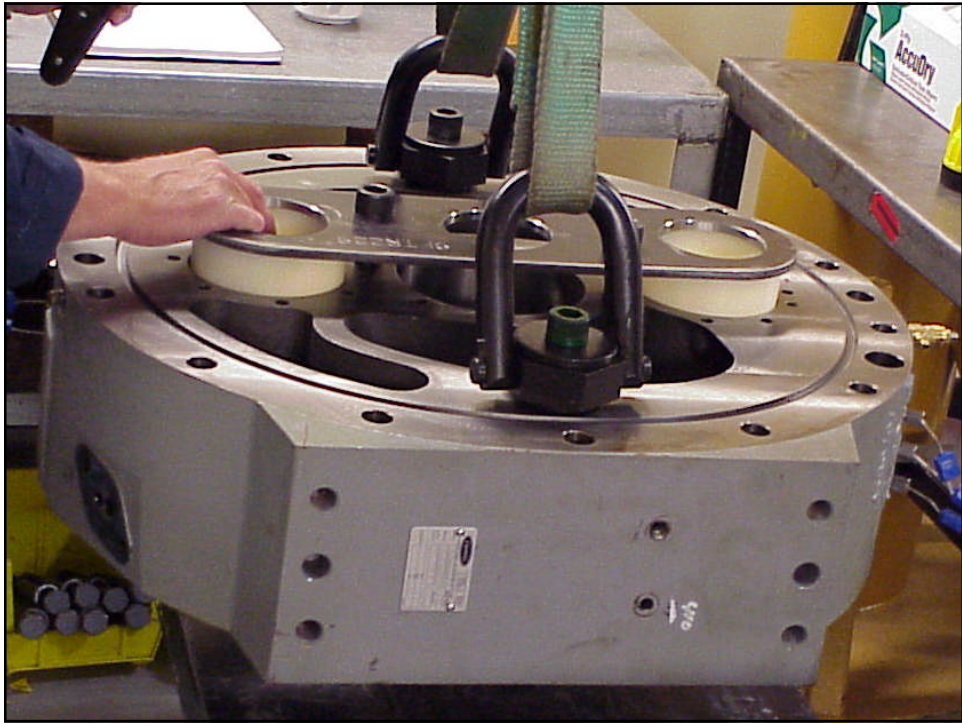


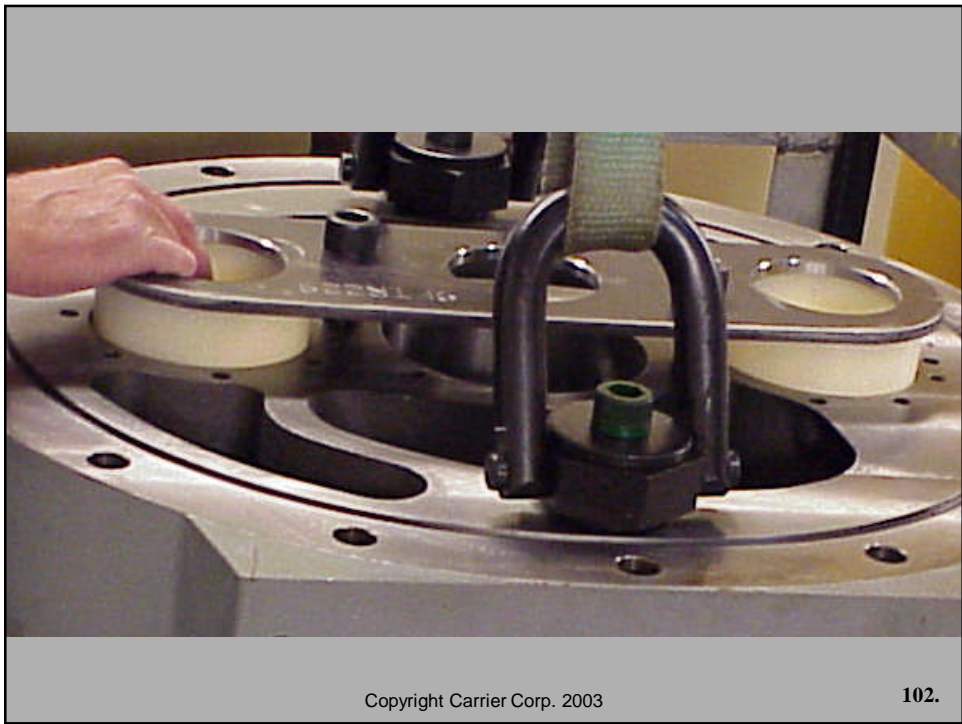
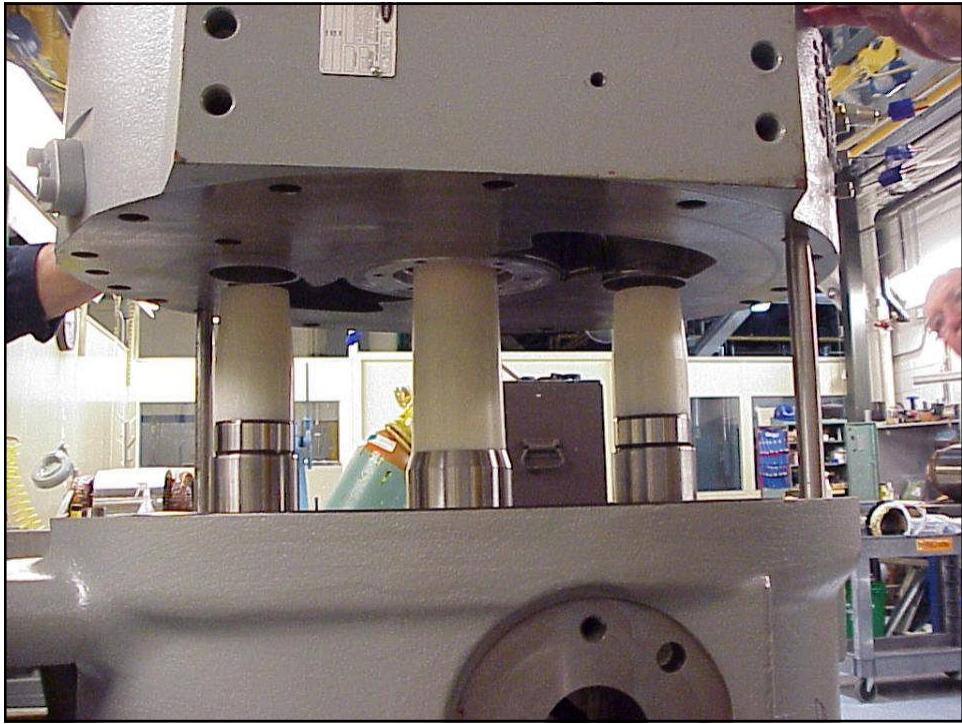






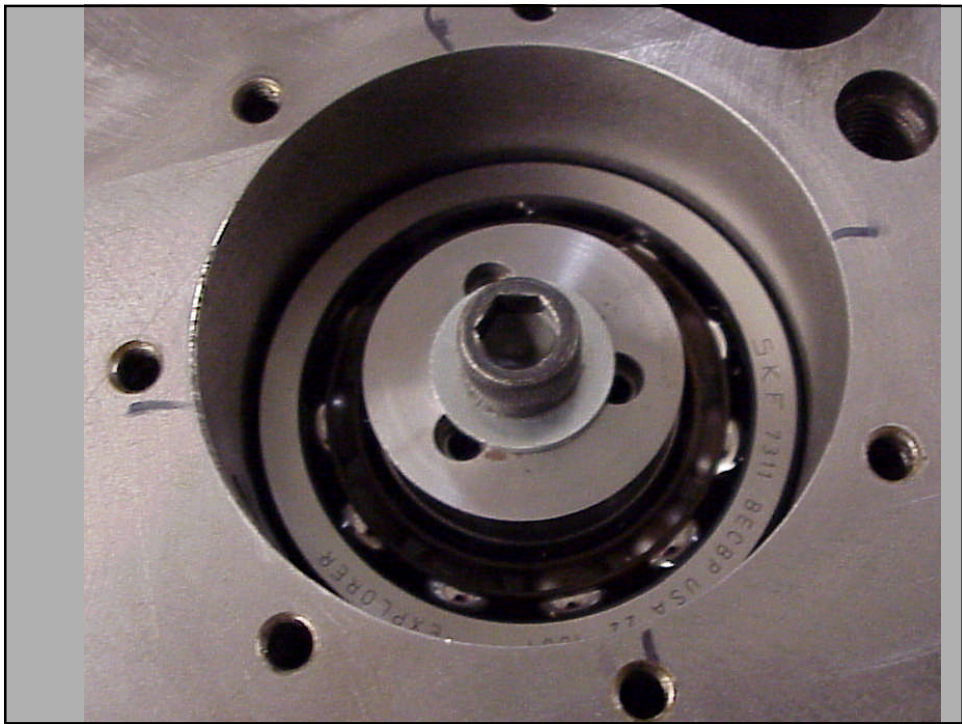


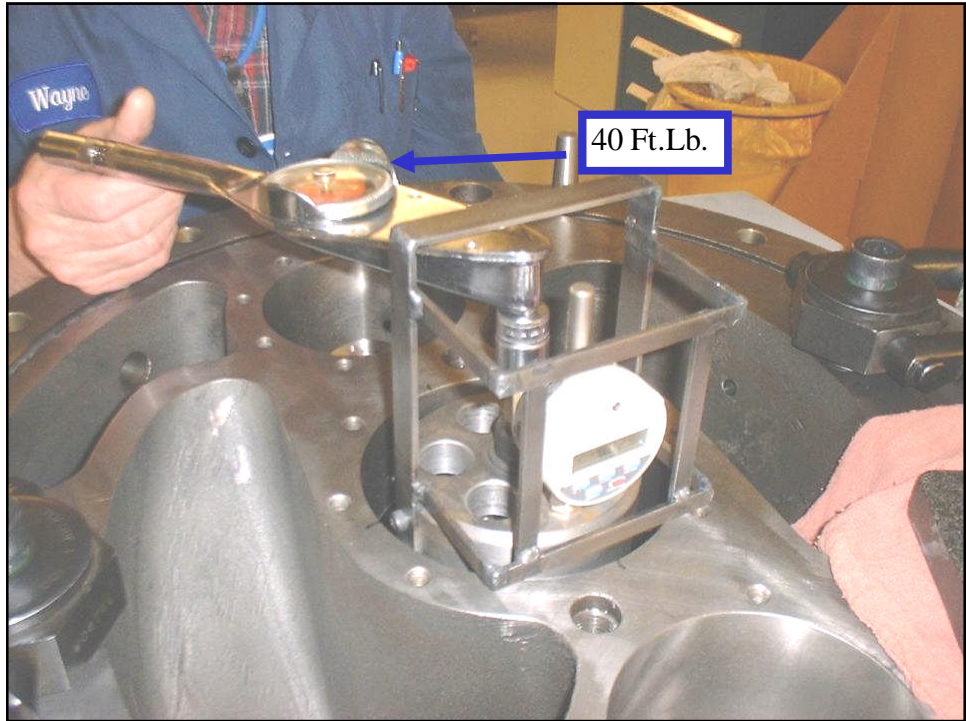




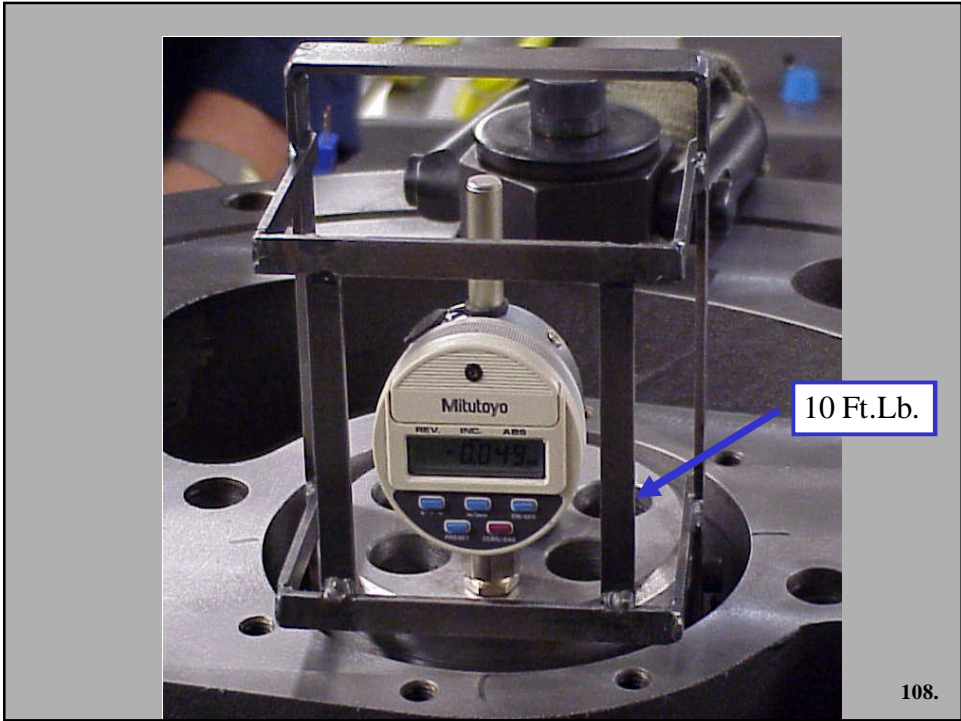
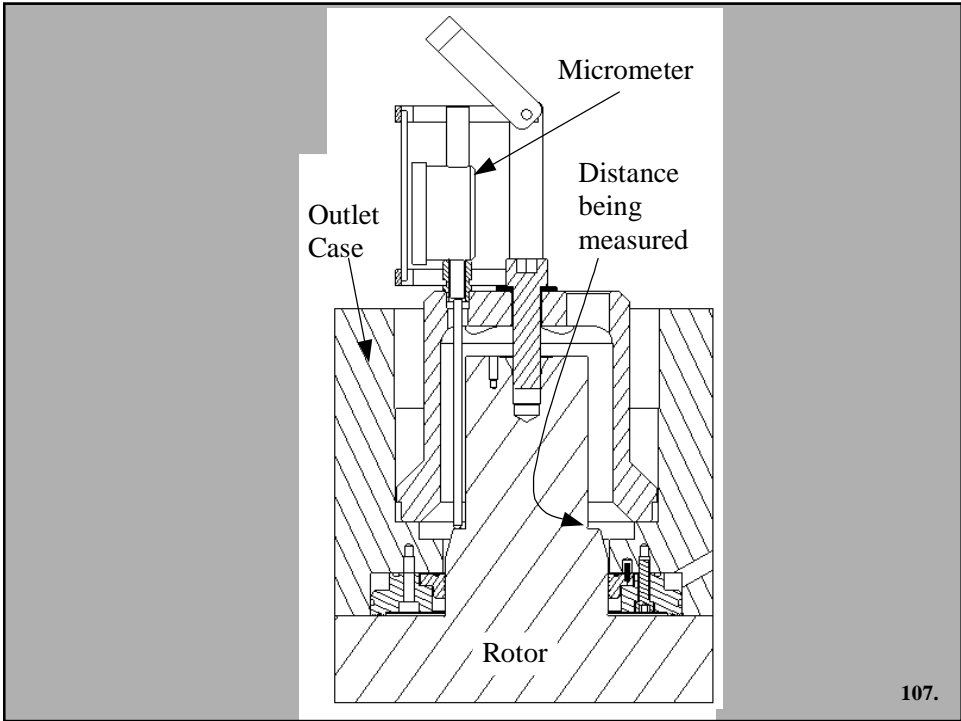
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102.





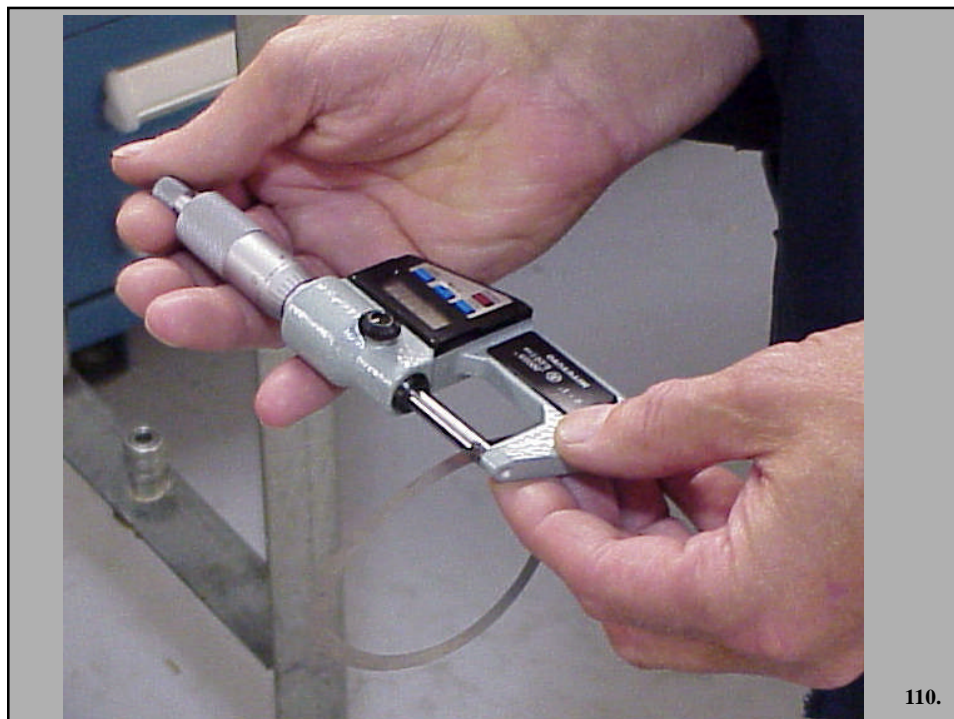
106.



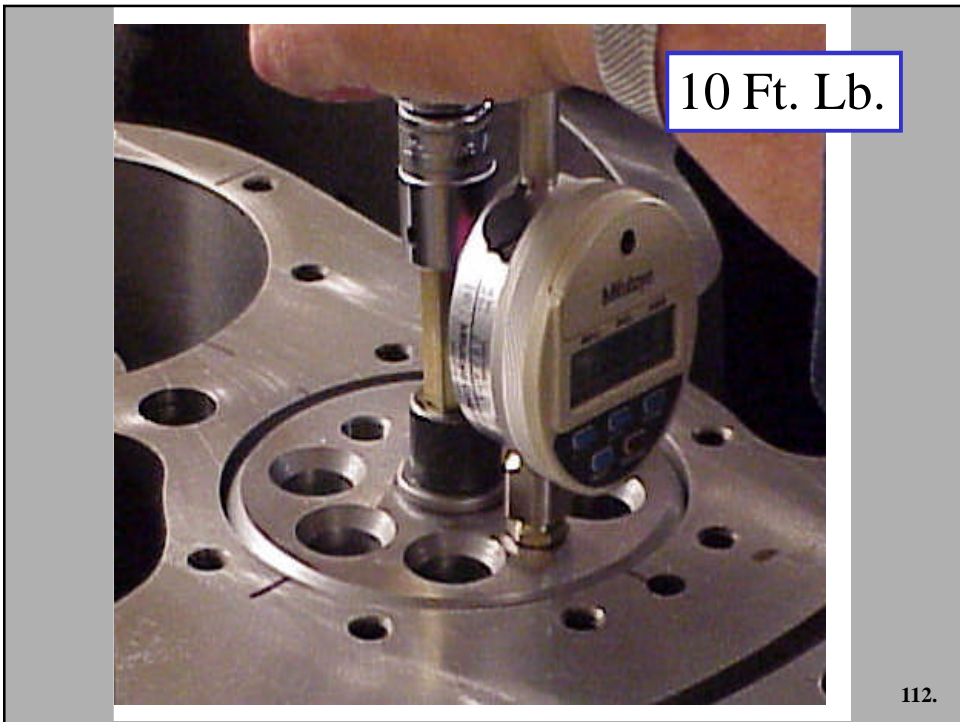
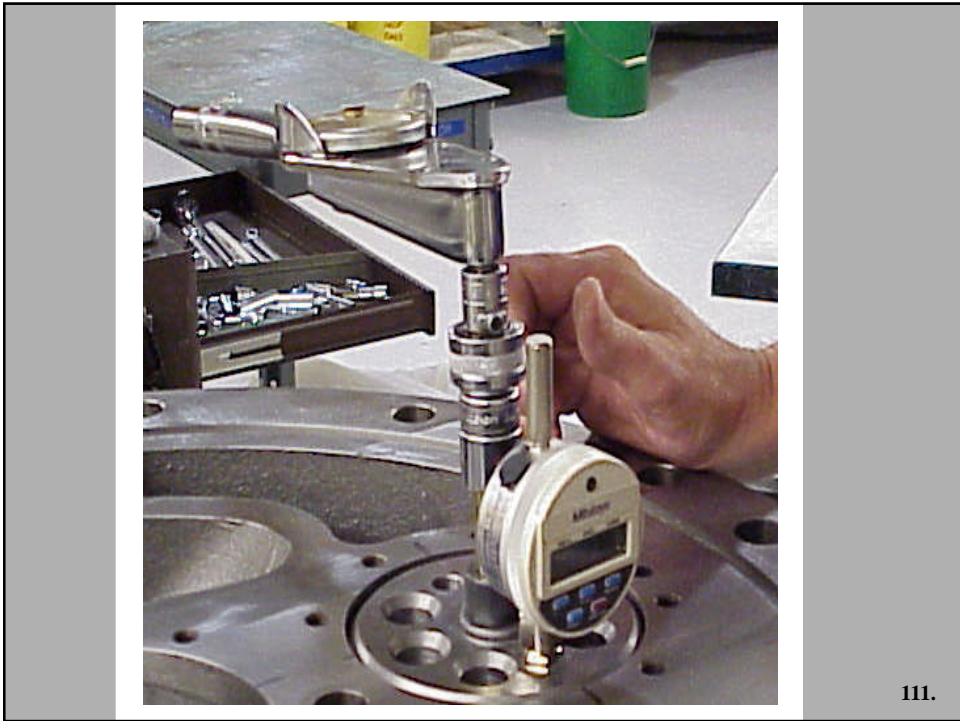
End Clearance Check Sheet						
<b>Top</b>	0	90	180	270	0	Average
	-0.079	-0.082	-0.078	-0.078	-0.08	-0.07925
<b>Male</b>	0	90	180	270	0	Average
	-0.059	-0.06	-0.061	-0.057	-0.06	-0.05925
<b>Bottom</b>	0	90	180	270	0	Average
	-0.084	-0.08	-0.083	-0.085	-0.084	-0.083
All Data						
	Top		Male		Bottom	
Gage meas. Average	-0.07925		Gage meas. Average	-0.05925	Gage meas. Average	-0.083
Clearance target	0.035		Clearance target	0.035	Clearance target	0.035
Target shim	0.11425		Target shim	0.09425	Target shim	0.118
To find the target shim, subtract the "Gage Measurement Average" from the "Clearance Target"						
Actual shim (measured)	0.1178		Actual shim (measured)	0.0952	Actual shim (measured)	0.1173
Theoretical end clearance	0.03855		Theoretical end clearance	0.03595	Theoretical end clearance	0.0343
To find the "Theoretical End Clearance, add the "Actual Shim (measured)" to the "Gage Measured Average"						
Act. end clr. (measured)	0.035		Act. end clr. (measured)	0.035	Act. end clr. (measured)	0.035
To find the "Actual End Clearance (measured)", find the average of the "Go" and "No Go" feeler gage measurements.						
<b>ERROR</b>			<b>ERROR</b>		<b>ERROR</b>	
Feeler gages used to verify	0.03 go		Feeler gages used to verify	0.03 go	Feeler gages used to verify	0.03 go
	0.04 no go			0.04 no go		0.04 no go
Shims used in build	1-none		Shims used in build	1- none	Shims used in build	1-none
	1- 4 notch			1-3 notch		1- 4 notch
Note: Taper detected by end clearance gage verified with feeler gages.						
Remember: The Gage meas. Average is most often negative. "Target Shim" = " Gage Meas. Average" - "Clearance target". Keep Track of signs!						

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109.



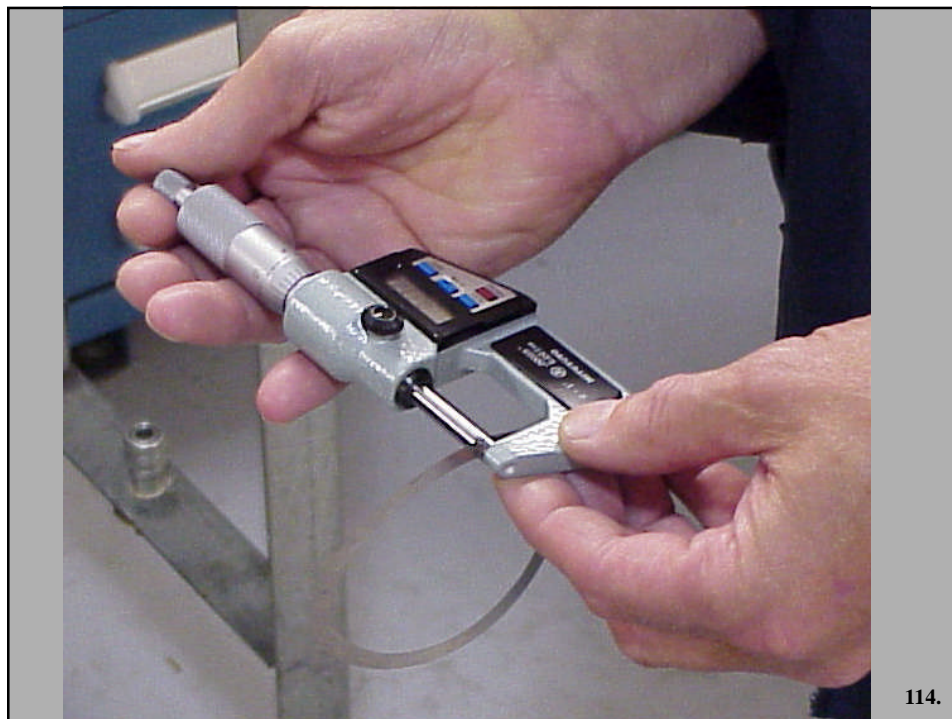
110.



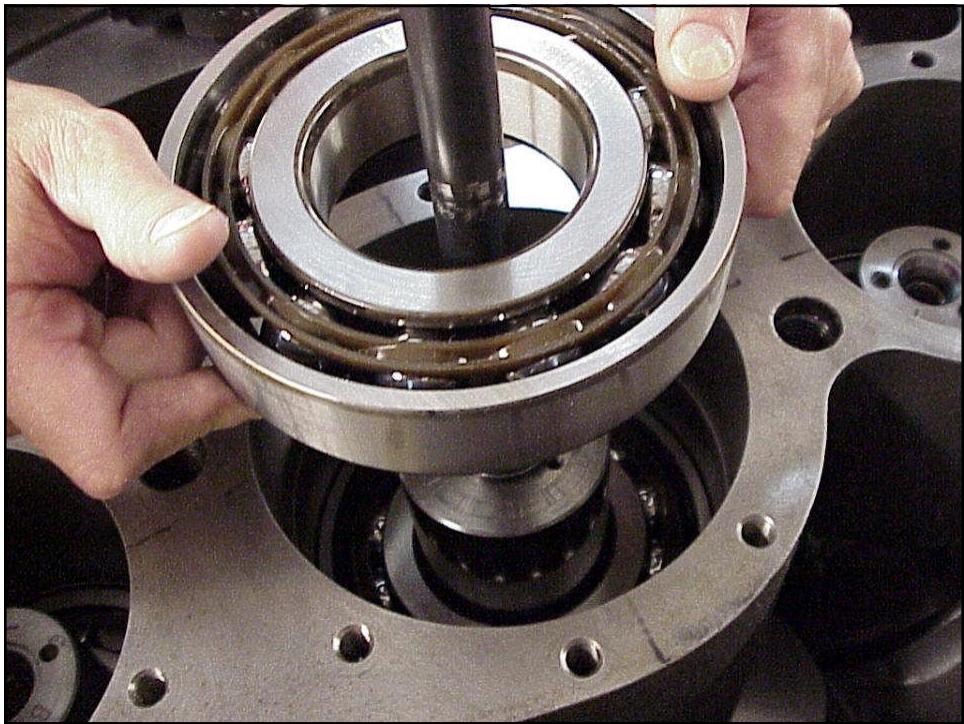
End Clearance Check Sheet						
<b>Top</b>	0	90	180	270	0	Average
	-0.079	-0.082	-0.078	-0.078	-0.08	-0.07925
<b>Male</b>	0	90	180	270	0	Average
	-0.059	-0.06	-0.061	-0.057	-0.06	-0.05925
<b>Bottom</b>	0	90	180	270	0	Average
	-0.084	-0.08	-0.083	-0.085	-0.084	-0.083
All Data						
	Top		Male		Bottom	
Gage meas. Average	-0.07925		Gage meas. Average	-0.05925	Gage meas. Average	-0.083
Clearance target	0.035		Clearance target	0.035	Clearance target	0.035
Target shim	0.11425		Target shim	0.09425	Target shim	0.118
To find the target shim, subtract the "Gage Measurement Average" from the "Clearance Target"						
Actual shim (measured)	0.1178		Actual shim (measured)	0.0952	Actual shim (measured)	0.1173
Theoretical end clearance	0.03855		Theoretical end clearance	0.03595	Theoretical end clearance	0.0343
To find the "Theoretical End Clearance, add the "Actual Shim (measured)" to the "Gage Measured Average"						
Act. end clr. (measured)	0.035		Act. end clr. (measured)	0.035	Act. end clr. (measured)	0.035
To find the "Actual End Clearance (measured)", find the average of the "Go" and "No Go" feeler gage measurements.						
<b>ERROR</b>			<b>ERROR</b>		<b>ERROR</b>	
Feeler gages used to verify	0.03 go		Feeler gages used to verify	0.03 go	Feeler gages used to verify	0.03 go
	0.04 no go			0.04 no go		0.04 no go
Shims used in build	1-none		Shims used in build	1- none	Shims used in build	1-none
	1- 4 notch			1-3 notch		1- 4 notch
Note: Taper detected by end clearance gage verified with feeler gages. Remember: The Gage meas. Average is most often negative. "Target Shim" = " Gage Meas. Average" - "Clearance target". Keep Track of signs!						

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113.



114.

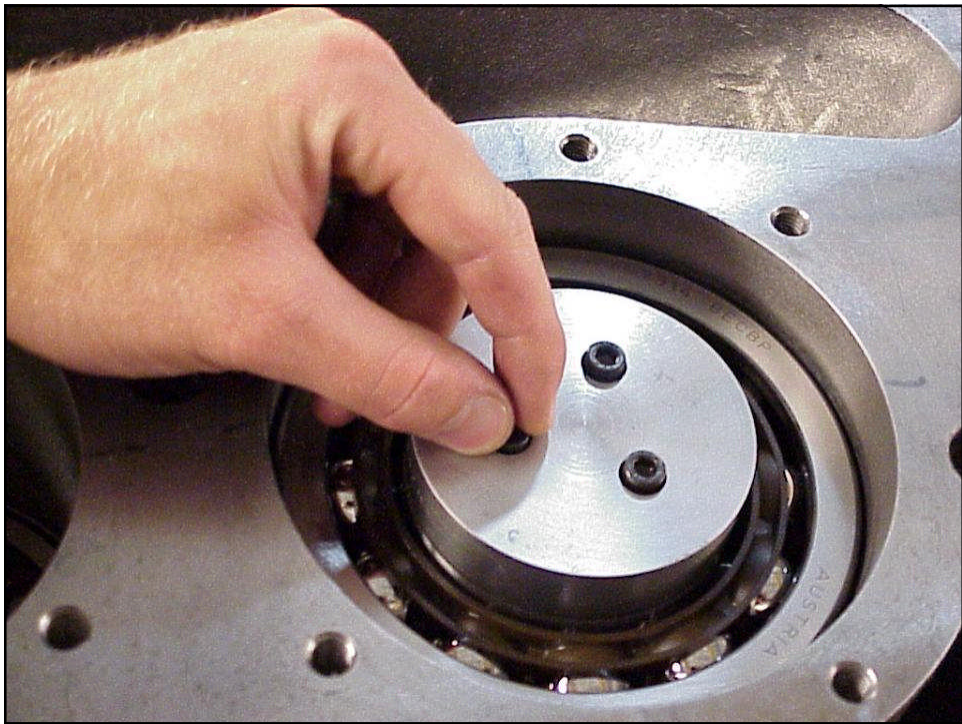
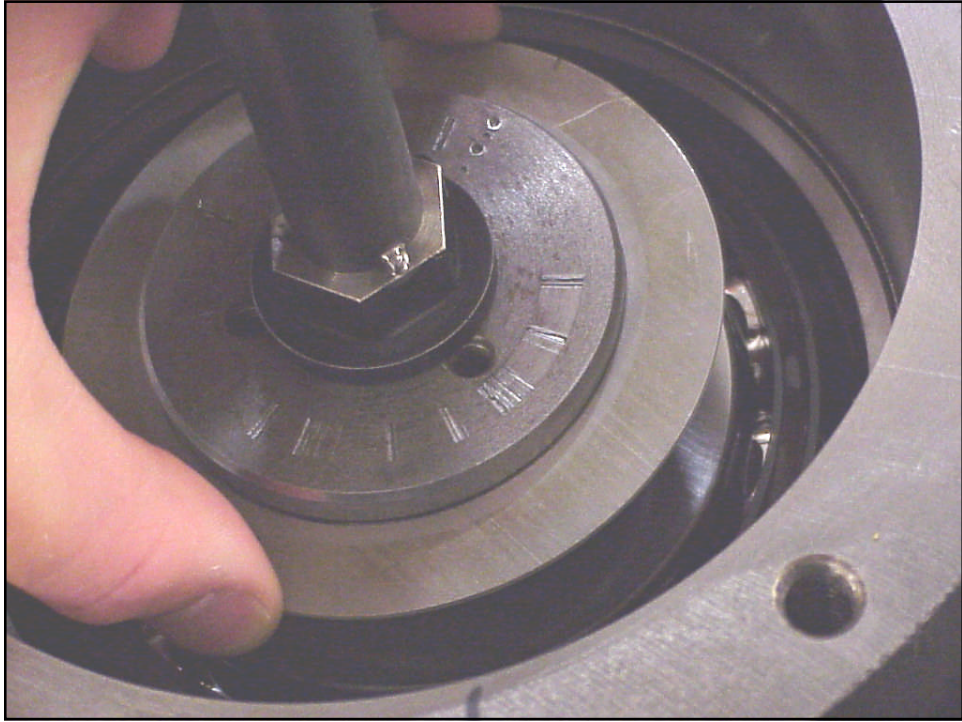


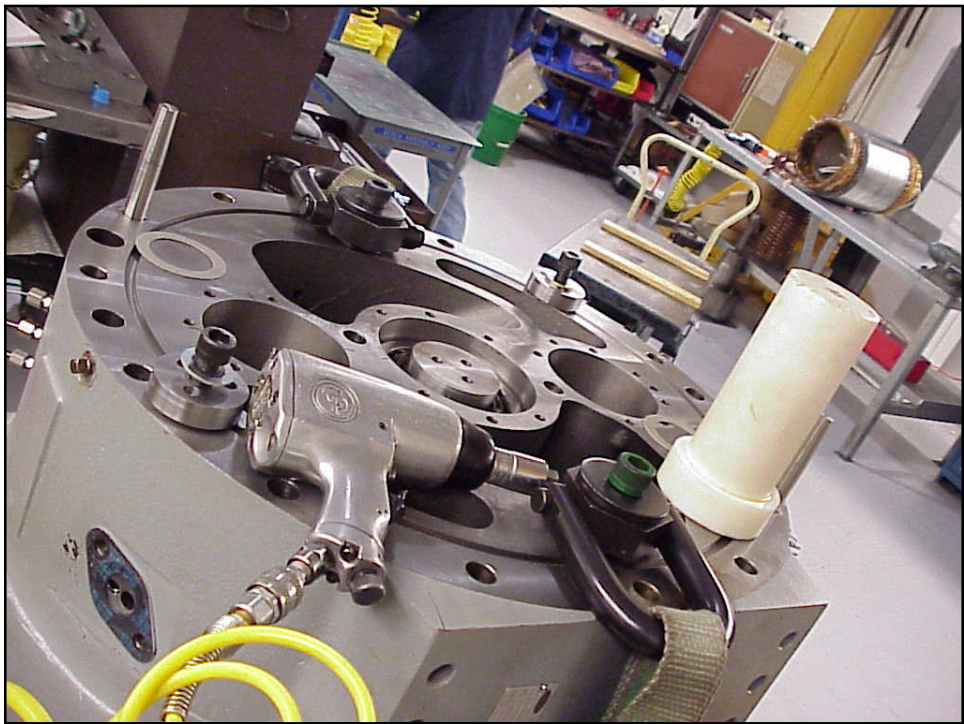
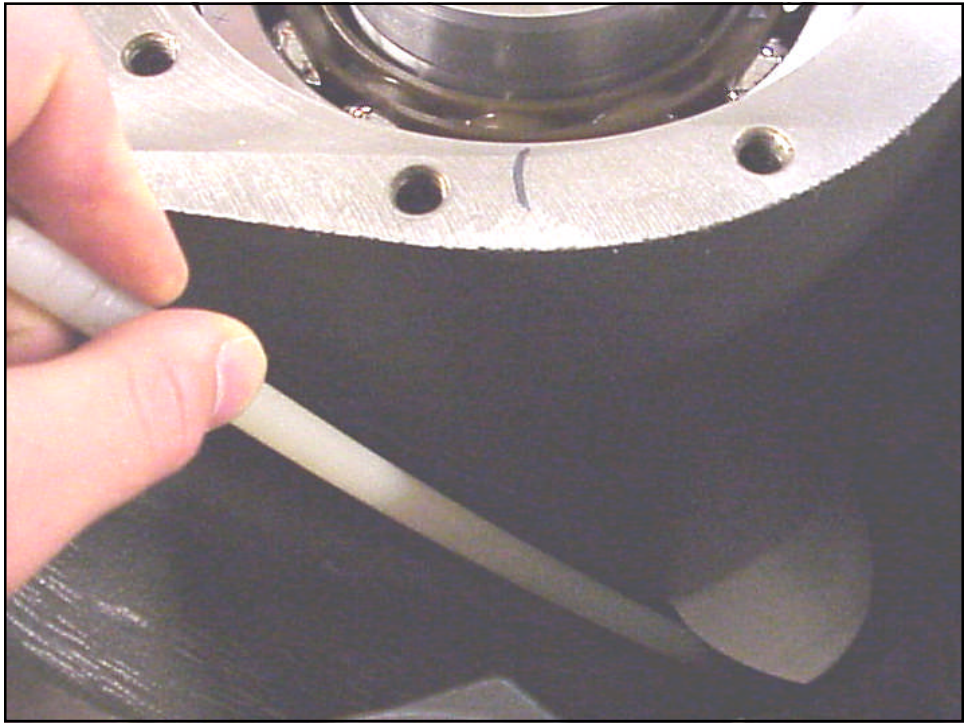


117.



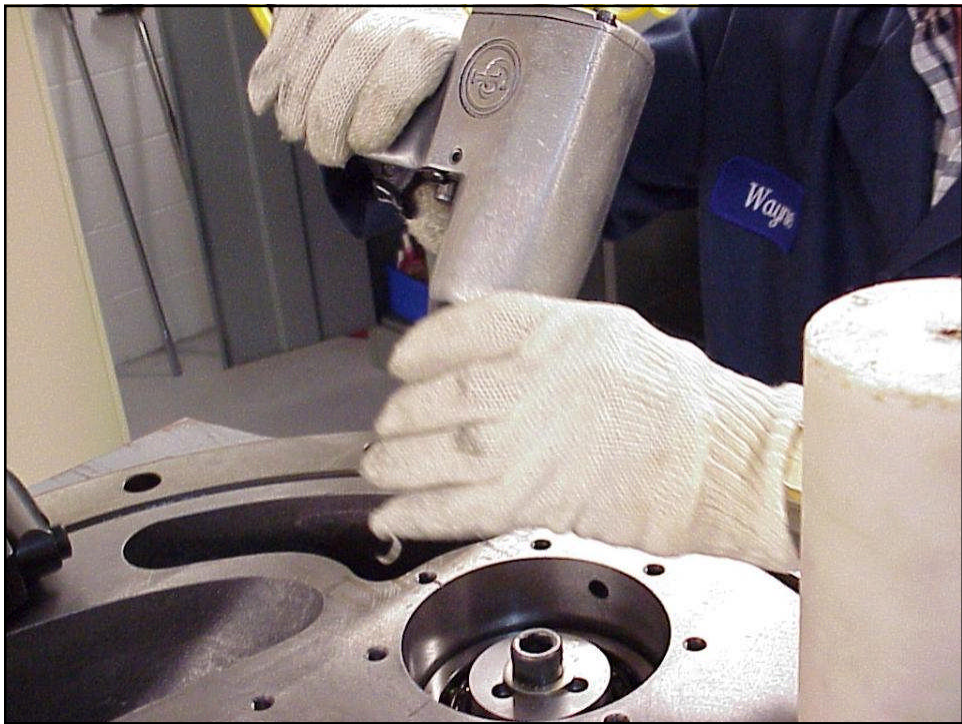
118.

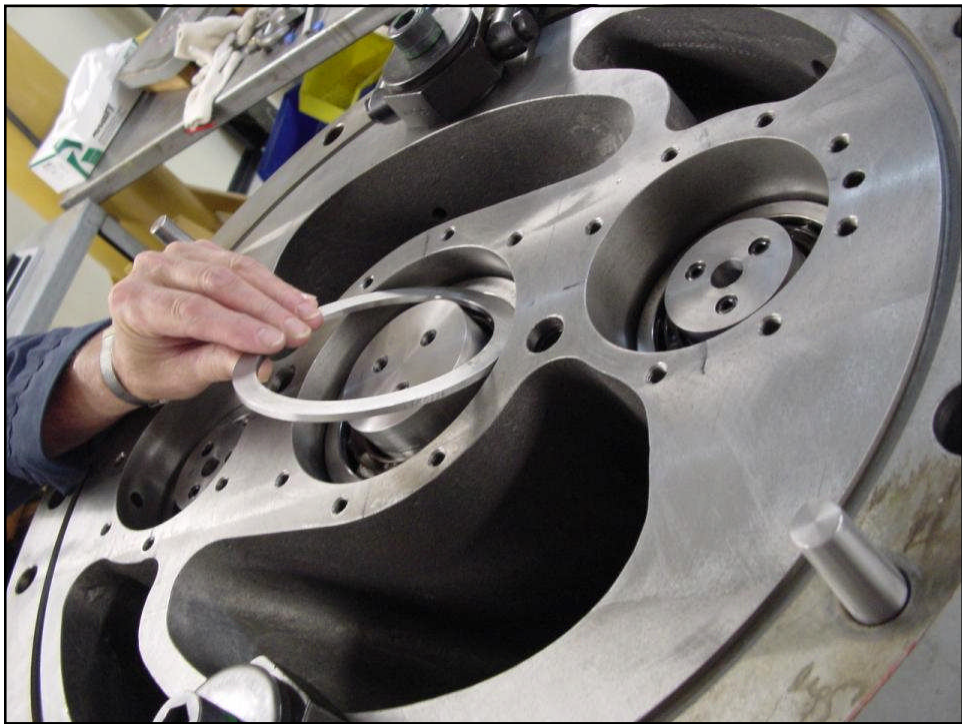
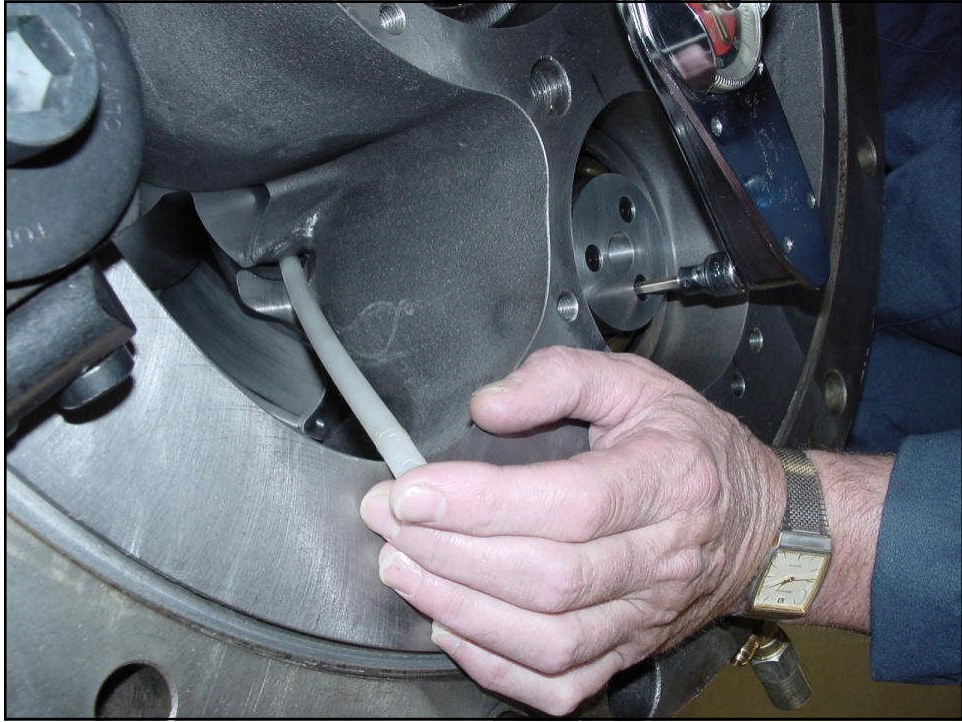


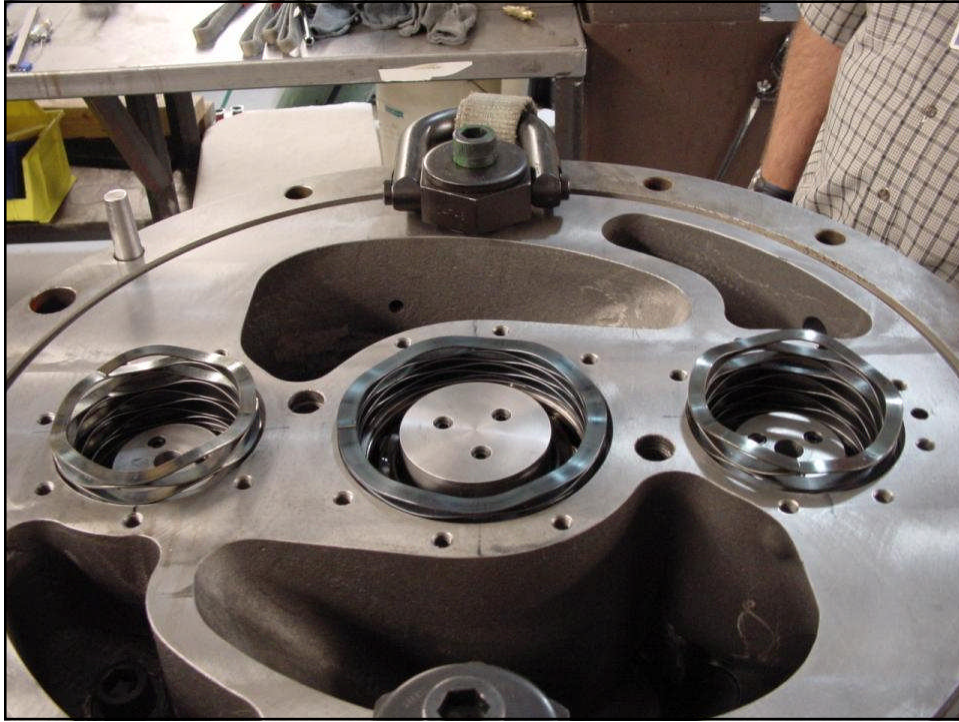




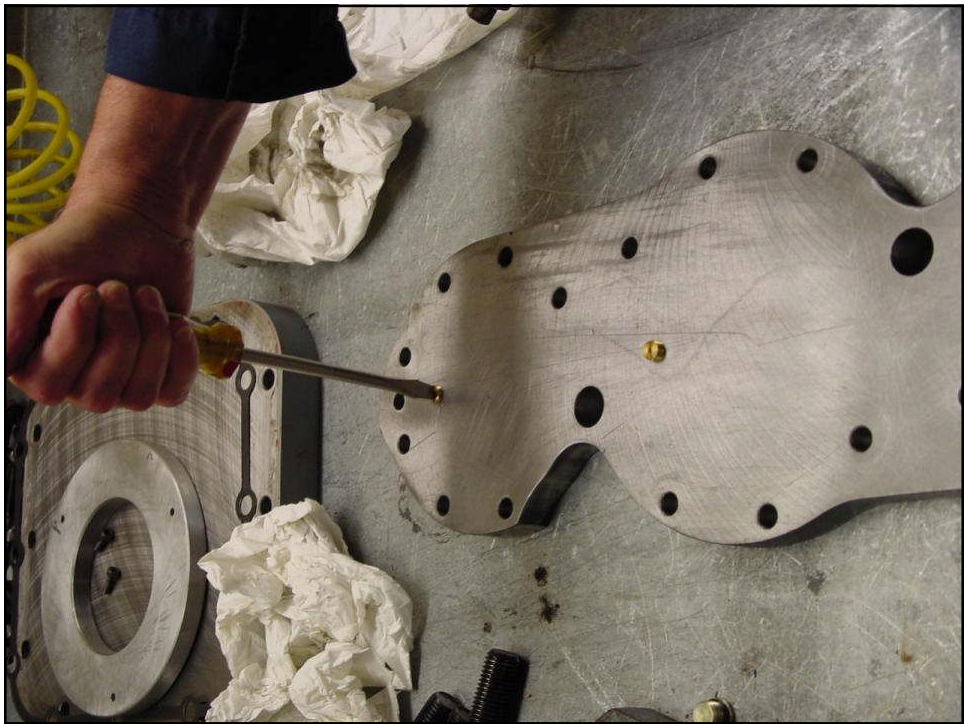
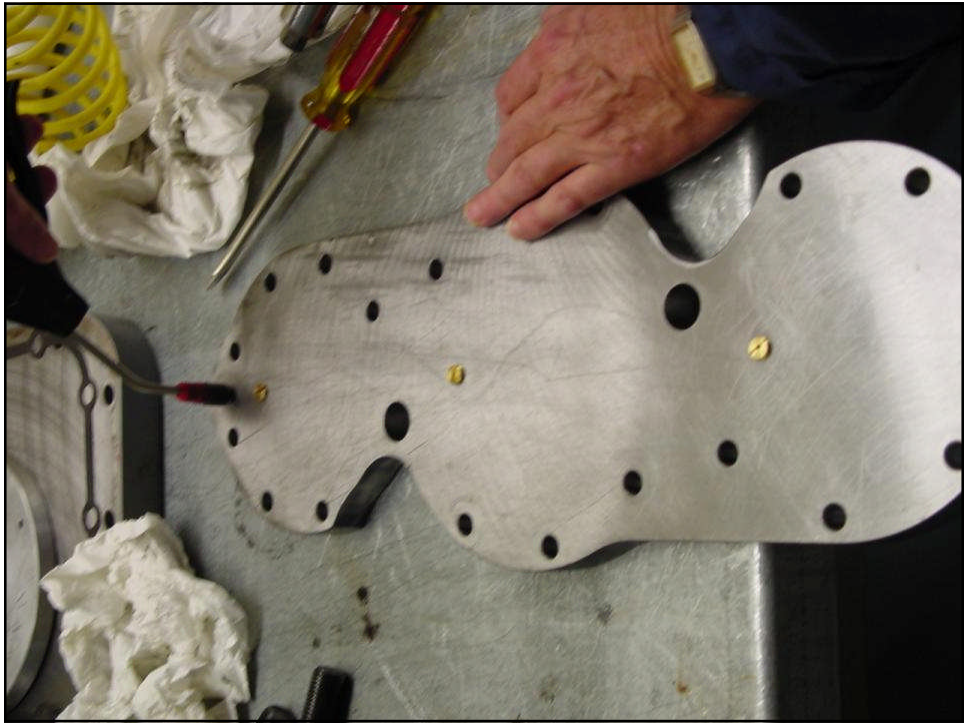
Shoot PIC of spacer

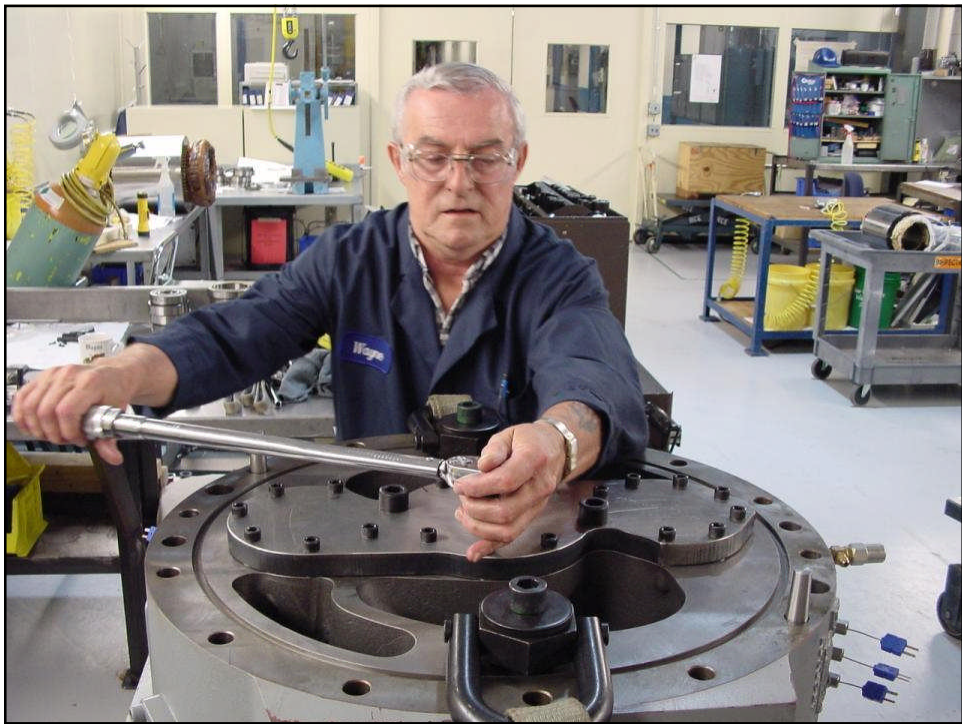
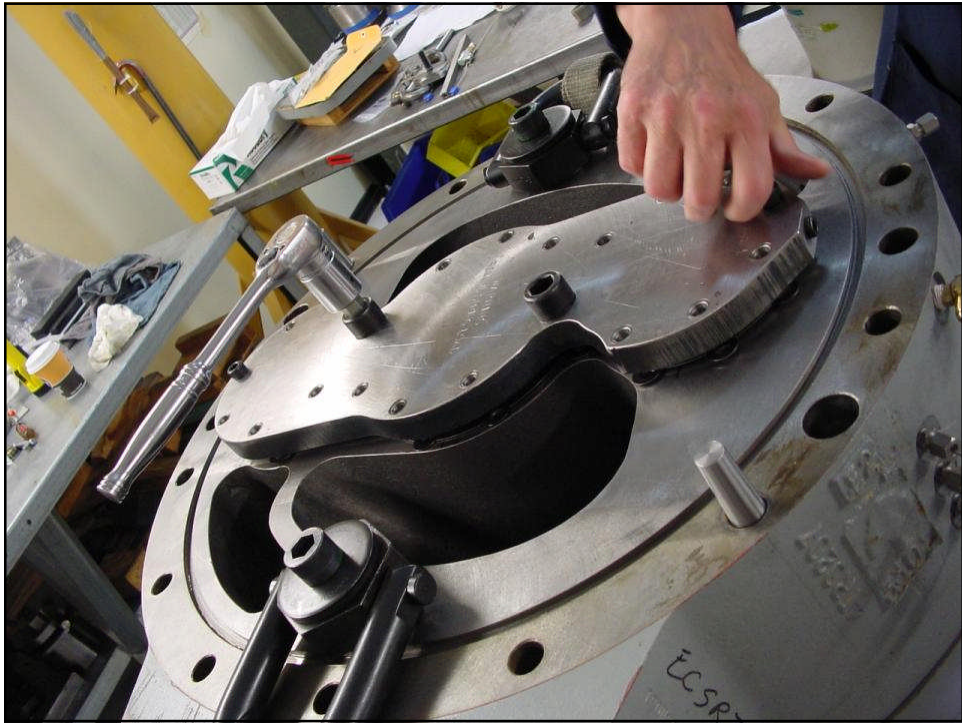




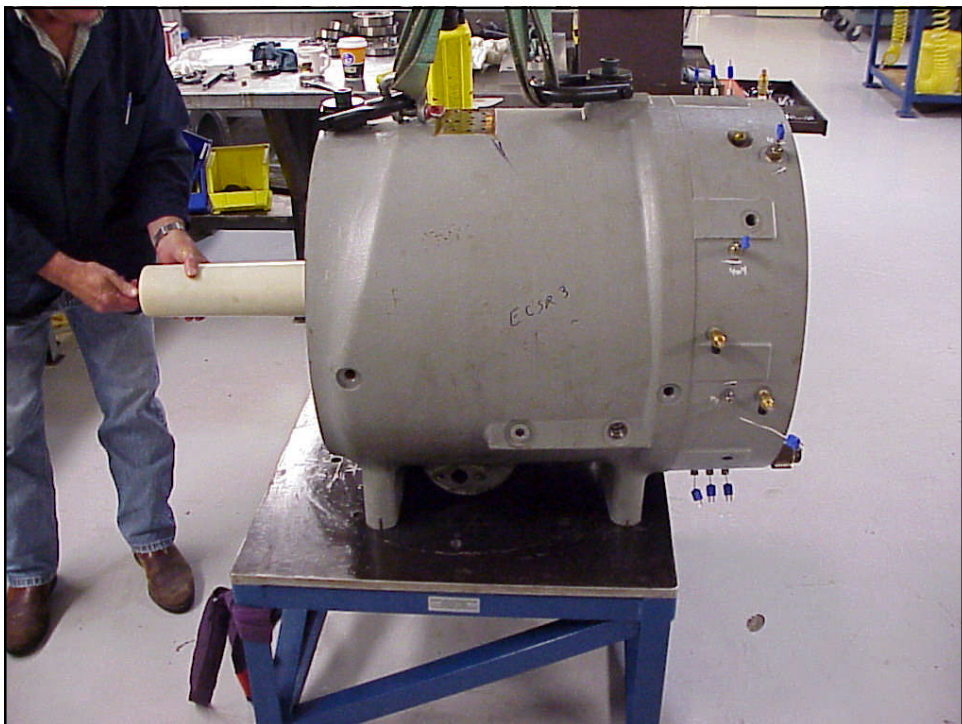
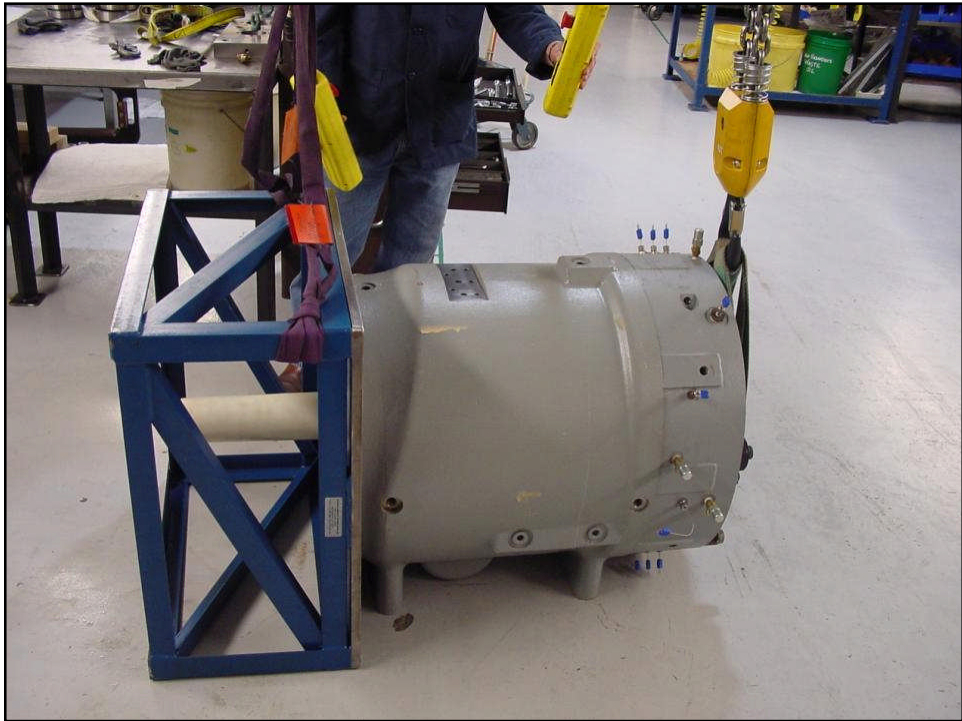


Bearing cover plate gasket







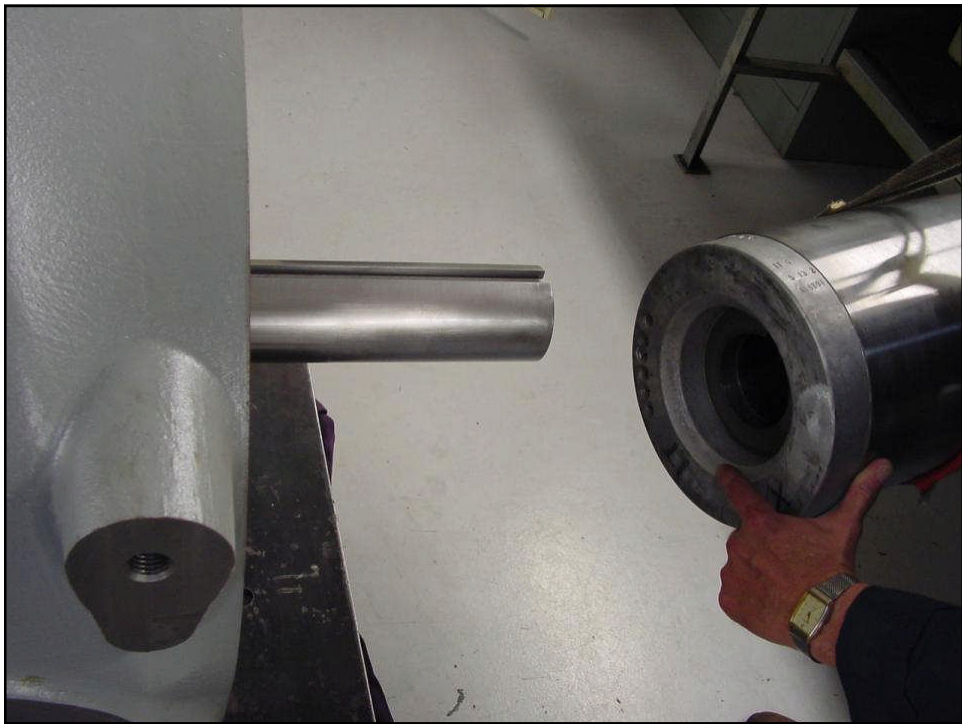
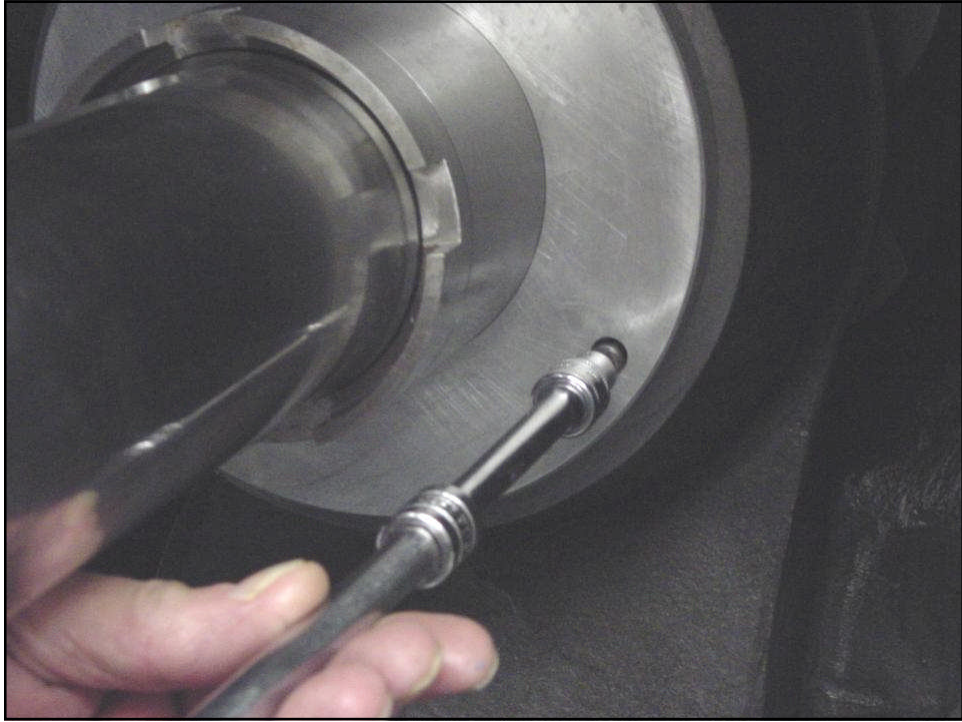


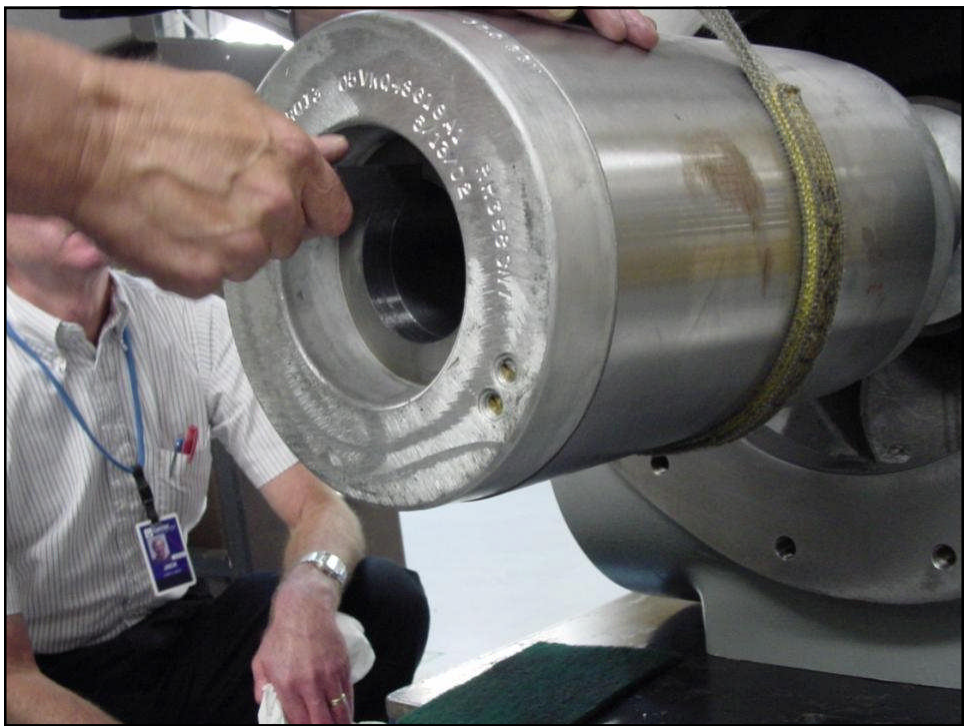
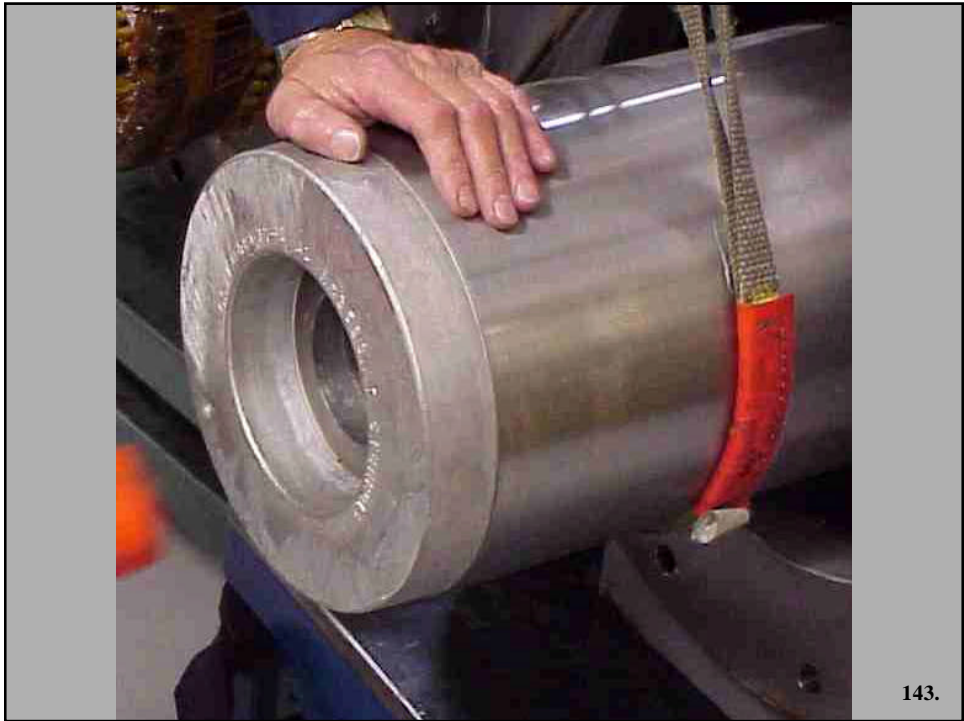
Oil the main bearing feed and  
rotate the male shaft

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139.



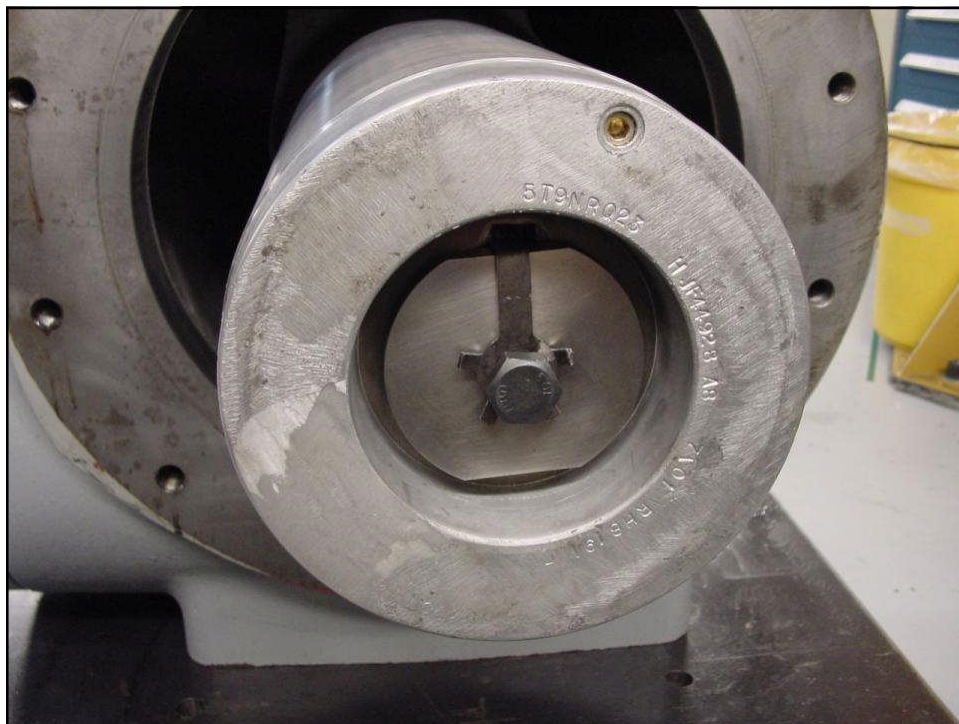


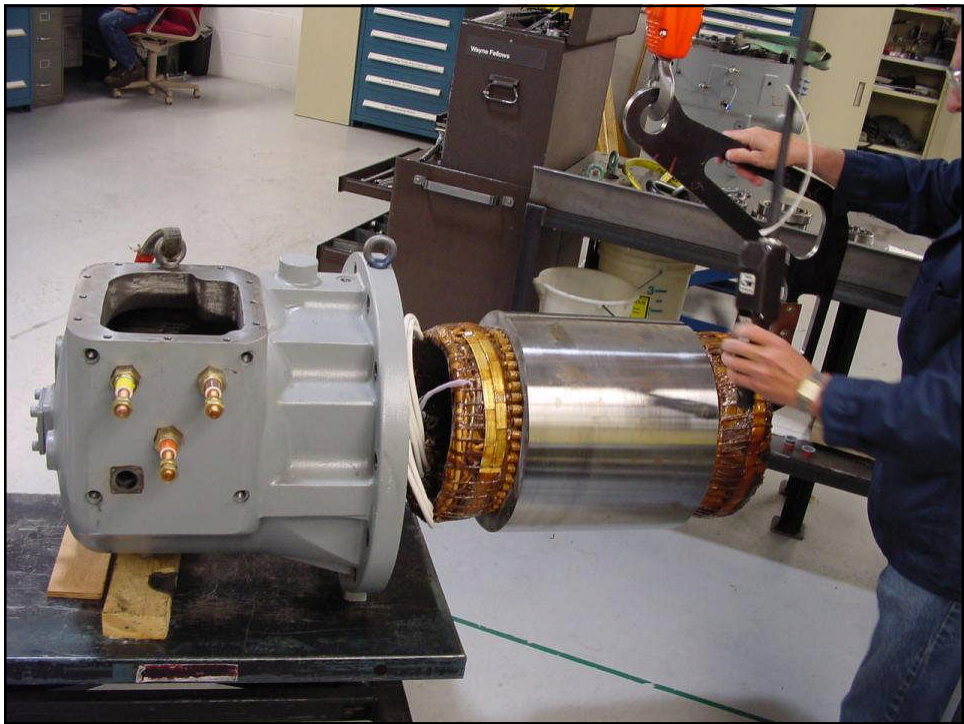


# Measure motor rotor runout

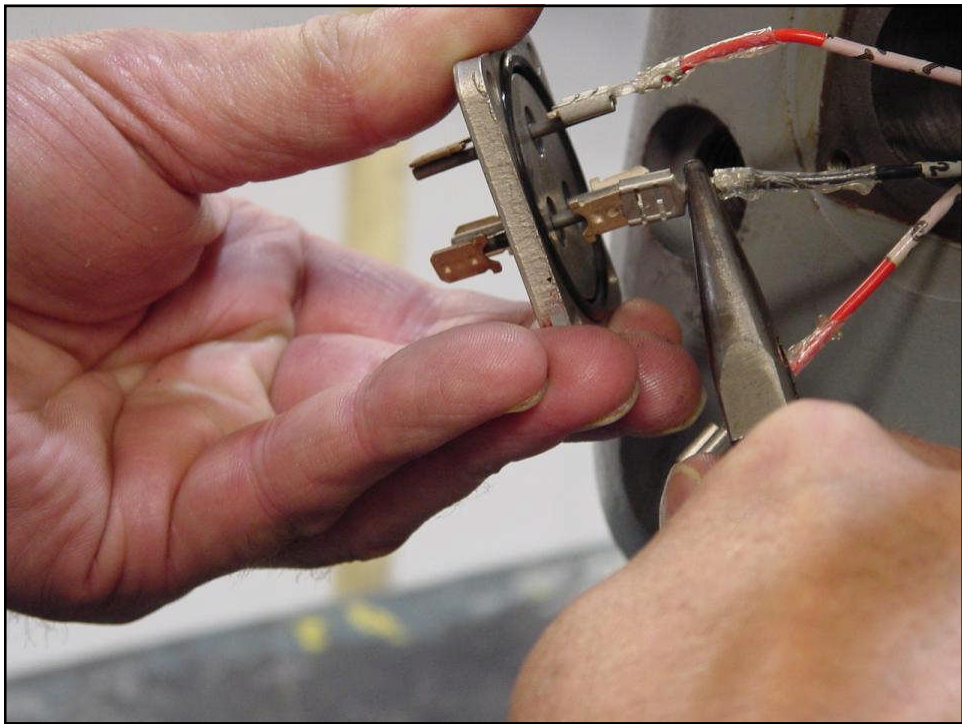
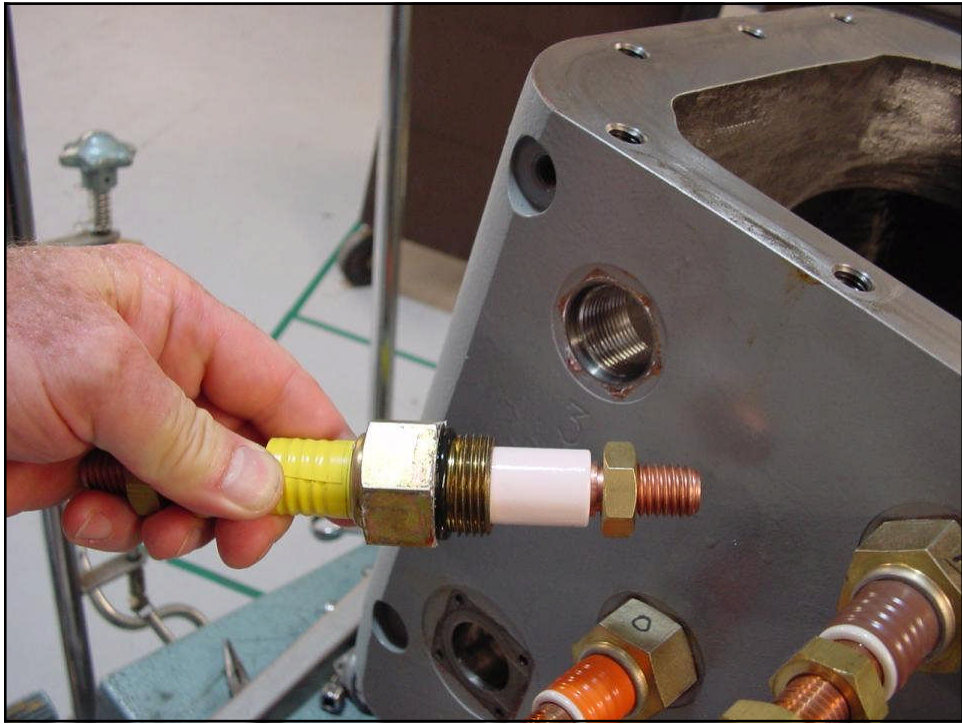
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145.







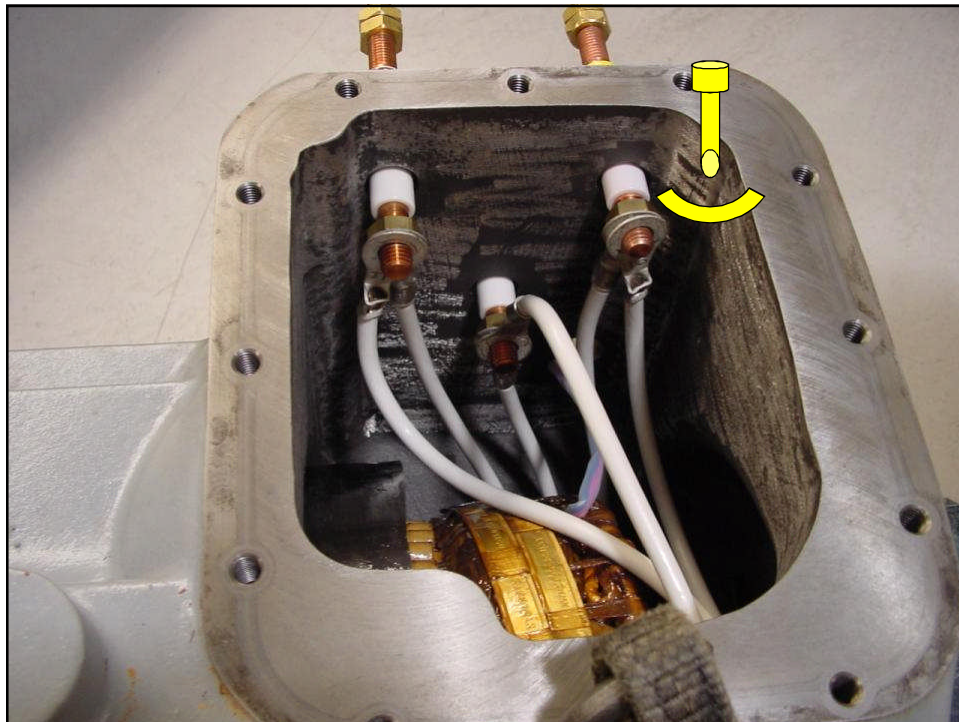


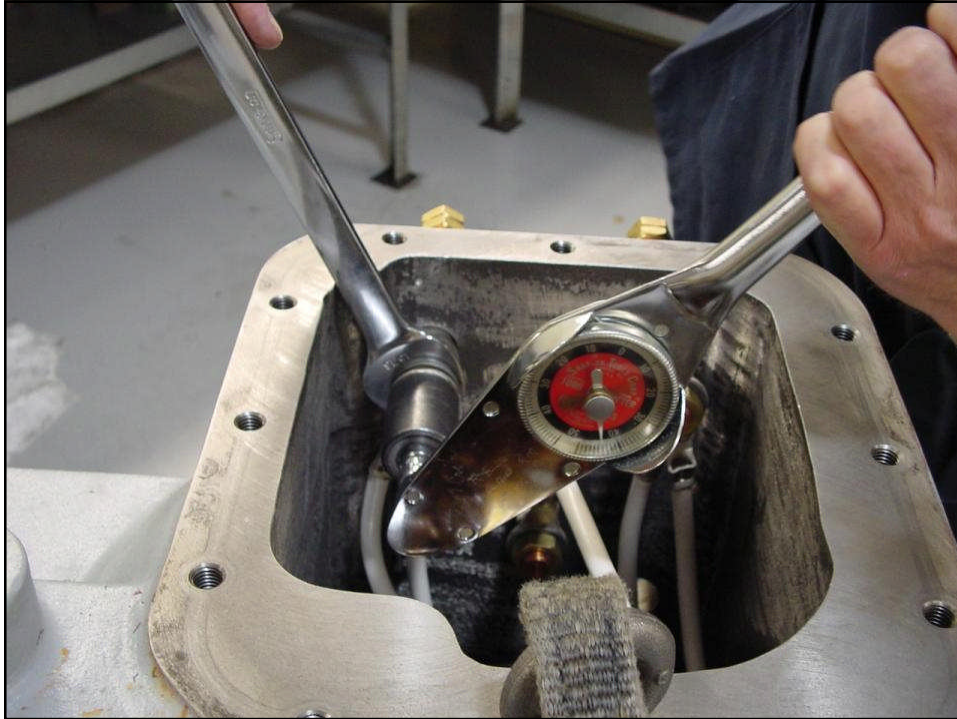
# Motor Wiring Schematic

## 1-6 - 24 & 3-5

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153.





Use a ohmmeter to test motor windings to ground

Show how the testing of the  
resistance of motor windings  
for number 66

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157.

Measure the thermistor  
resistance

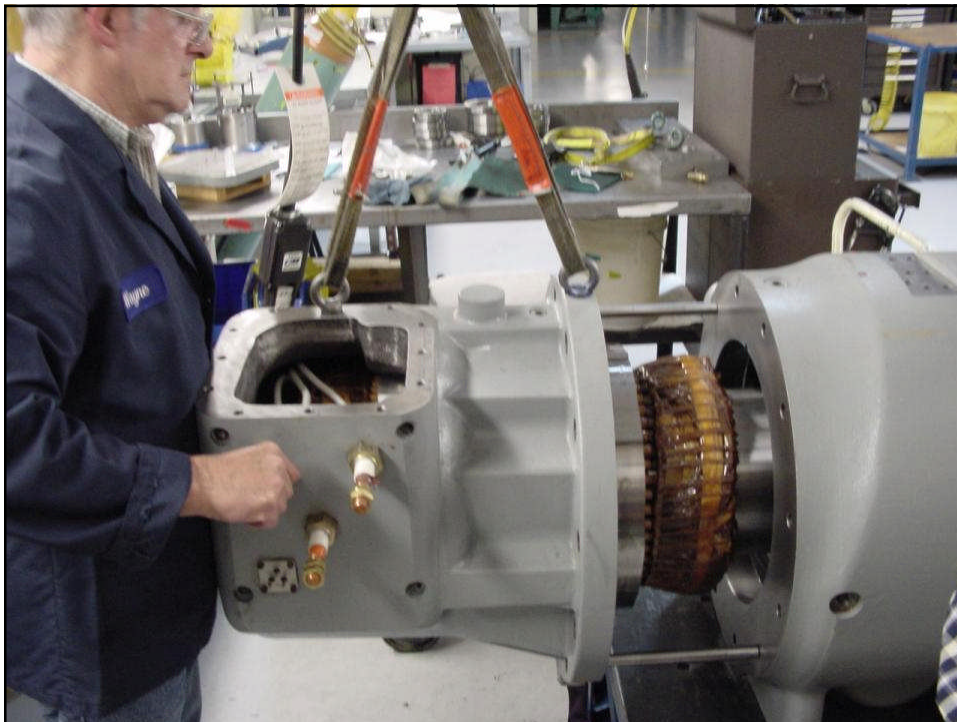
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158.

## Prepare for motor assembly - start with O-ring

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159.





Check air gap

Hy-pot the motor

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163.

Show where these holes are. Picture like you are just pulling out the SAE plug and show the threads with the O-rings

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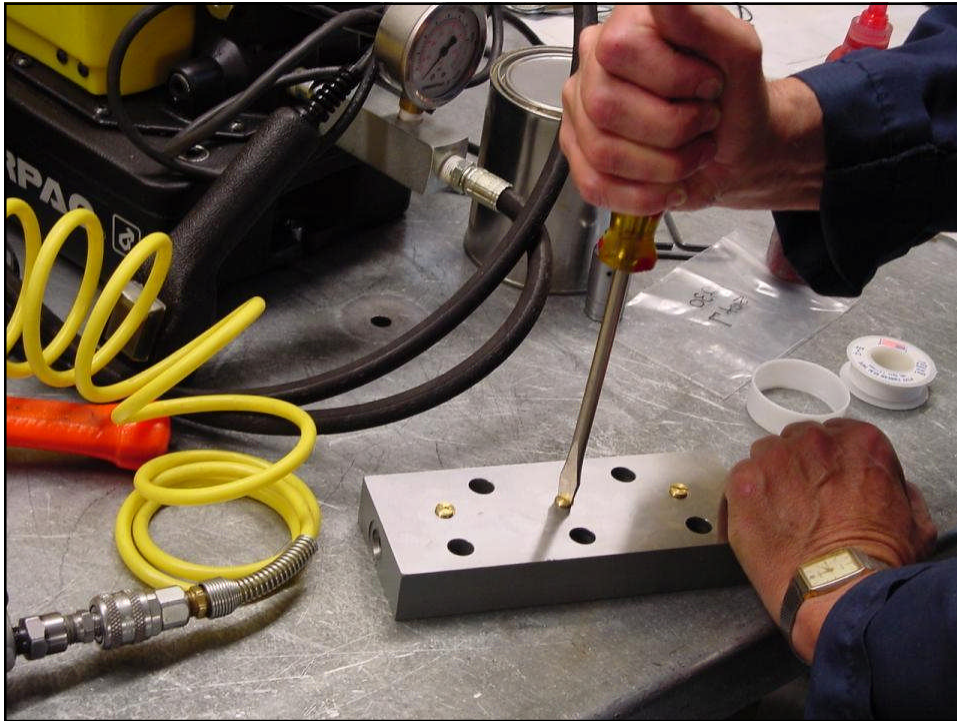
164.



## PIC Refrigerant spray nozzle

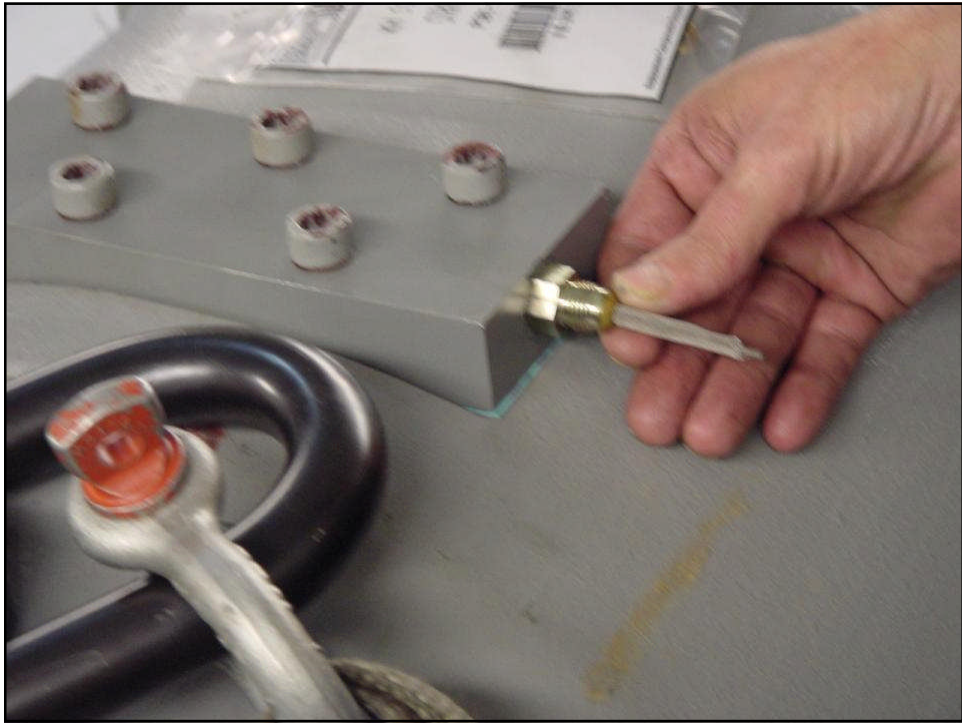
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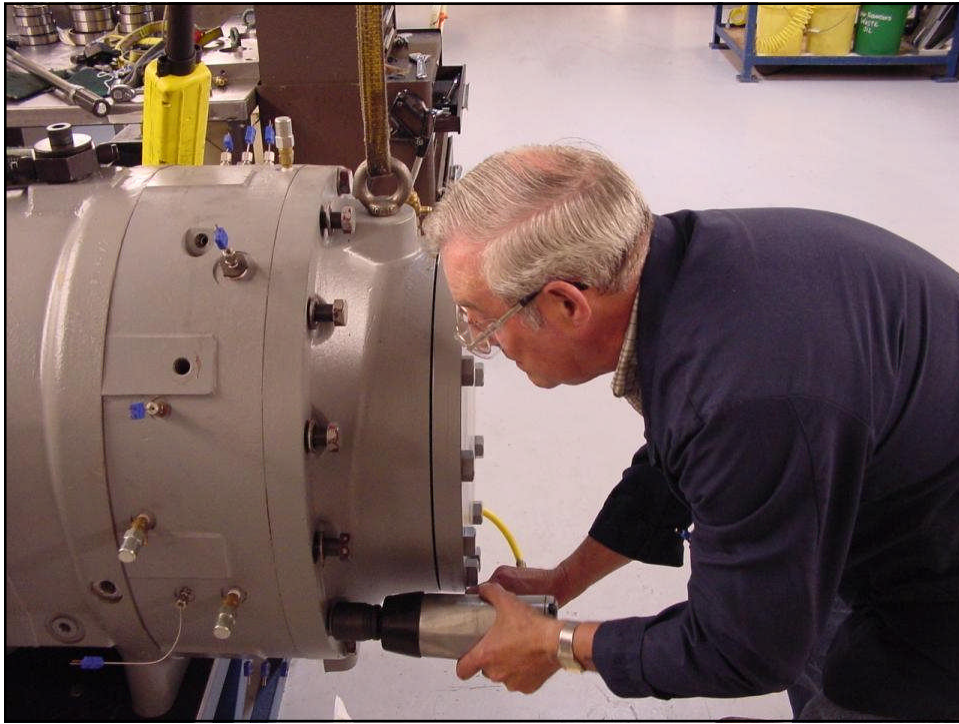
166.



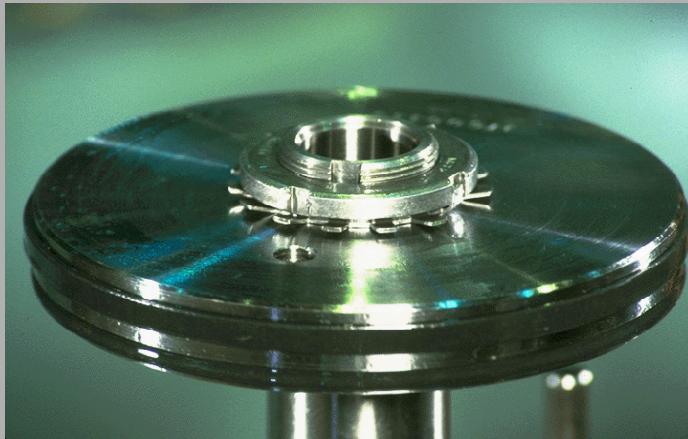
Install O - rings on lube block







## Did I Mention SLIDE VALVES



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