

适用性及控制信息Applicability& Control Information

机号 A/C NO.	B6970	机型 A/C		工卡号 Job Card NO.	TGPE-A494000-B3-2		
标题 Title	检查起动机电刷的磨损指示器 CHECK WEAR INDICATOR OF STARTER MOTOR BRUSH						
首检 Threshold	N/A	重复检 Interval	750FH	MPD号 MPD Item	494000-B3-2	MS号 MS Item	A494000-B3-2
工种 Skill	AIME	反馈要求 Feedback	N	MS工时 MS MH	.1	必检 RII	N
编写者 Author	日期 Date	审核者 Reviewer	日期 Date	批准者 Approver	日期 Date		
王鹏飞	2016-09-12	王鹏飞	2016-09-12	陆志中	2016-09-18		
工作完成 Accomplished							
航站 Base		故障发现 Finding		退单号 Deferred Task		实际人工时 Man X Hour	
工作者 Operator		日期 Date		完工确认者 Confirmer		日期 Date	
风险 Risk Tips							
序号	工作阶段	风险提示					
1	施工	确保APU足够冷却后，再进行相关检查，避免人员烫伤。					
附件							



工卡施工部分 Job Card Operation Part

版本 Version	R3		厂家工卡&修订日期 Manuf.Card&Rev.Date		49-42-51-200-008-A & 20160501	
标准工时 ST MH	0.1		授权 Auth		A320-214机型 (ME/AV) 定检	
编写者 Author	日期 Date	审核者 Reviewer		日期 Date	审批者 Author	日期 Date
王鹏飞	2016/09/12	王鹏飞		2016/09/12	陆中	2016/09/12

工作内容 Contents	工作者 Mech	检验者 Insp																														
<div><div>ALL</div><div>TASK 49-42-51-200-008-A</div><div>Check Wear Indicator of Starter Motor Brush (131-9(A))</div><div>检查起动马达电刷的磨损指示器 (131-9(A))</div><div>WARNING: DO NOT TOUCH THE APU UNTIL IT IS SUFFICIENTLY COOL TO PREVENT BURNS WHEN YOU DO THE MAINTENANCE TASK(S).</div><div>警告: 做维护工卡时, 除非确认足够冷却, 否则禁止接触APU, 防止灼伤。</div><div>WARNING: BE CAREFUL WHEN YOU USE CONSUMABLE MATERIALS. OBEY THE MATERIAL MANUFACTURER'S INSTRUCTIONS AND YOUR LOCAL REGULATIONS.</div><div>警告: 在使用化工品时需当心。遵照化工品厂商的说明和当地规章。</div><div>ALL</div><div>FIN: 8-KA</div><div>A. Fixtures, Tools, Test and Support Equipment</div><div>固定装置, 工具, 测试和支撑设备</div><table><thead><tr><th>REFERENCE 参考</th><th>DESIGNATION 描述</th><th>QTY 数量</th><th>SOURCE 来源</th><th>REMARK 备注</th></tr></thead><tbody><tr><td colspan="5">ALL</td></tr><tr><td>No specific</td><td>SAFETY CLIP - CIRCUIT BREAKER 跳开关夹子</td><td>AR</td><td>AMM</td><td></td></tr></tbody></table><div>B. Consumable Materials</div><div>化工品</div><table><thead><tr><th>REFERENCE 参考</th><th>DESIGNATION 描述</th><th>QTY 数量</th><th>SOURCE 来源</th><th>REMARK 备注</th></tr></thead><tbody><tr><td colspan="5">ALL</td></tr><tr><td>08BBB1</td><td>Non Aqueous Cleaner- Petroleum Based -</td><td></td><td>AMM</td><td></td></tr></tbody></table></div>	REFERENCE 参考	DESIGNATION 描述	QTY 数量	SOURCE 来源	REMARK 备注	ALL					No specific	SAFETY CLIP - CIRCUIT BREAKER 跳开关夹子	AR	AMM		REFERENCE 参考	DESIGNATION 描述	QTY 数量	SOURCE 来源	REMARK 备注	ALL					08BBB1	Non Aqueous Cleaner- Petroleum Based -		AMM			
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 工作内容
 Contents

 工作者
 Mech

 检验者
 Insp

 C. Parts
 周转件

FIG.ITEM 图中项目号	REFERENCE 参考	DESIGNATION 描述	SOURCE 来源	QTY 数量	REMARK 备注
ALL					
	2704506-4		IPC		视情，替代件号2704506-2

 D. Work Zones and Access Panels
 工作区域和接近盖板

Zone/Access 区域/接近	ZONE DESCRIPTION 区域描述	SOURCE 来源
ALL		
315	TAIL CONE APU AND ACCESSORY COMPARTMENT	AMM
315AL 316AR		AMM

 E. Referenced Information
 参考信息

REFERENCE 参考	DESIGNATION 描述	SOURCE 来源	REMARK 备注
ALL			
24-42-00-861-001-A	Energize the Ground Service Network from the External Power	AMM	
24-42-00-862-001-A	De-energize the Ground Service Network Supplied from the External Power	AMM	
29-00-00-864-001-A	Put the Related Hydraulic System in the Depressurized Configuration before Maintenance Action	AMM	
49-42-51-000-006-A	Removal of the Starter Motor (131-9)	AMM	
49-42-51-400-006-A	Installation of the Starter Motor (131-9)	AMM	
52-41-00-010-001-A	Open the APU Doors for Access	AMM	
52-41-00-410-001-A	Close the APU Doors after Access	AMM	
49-42-51-991-01000-16-A	ALL (Ref.Starter Motor Brush-Wear Indicator Figure 49-42-51-991-01000-16-A / SHEET 1)	AMM	

 1. Job Set-up
 工作准备

ALL



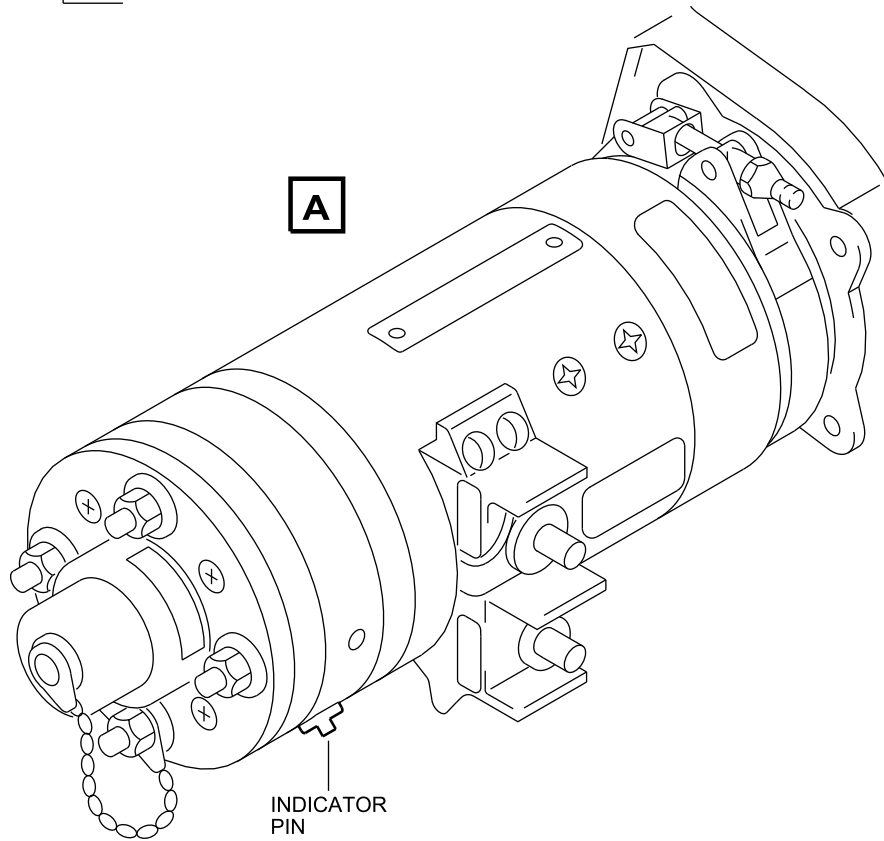
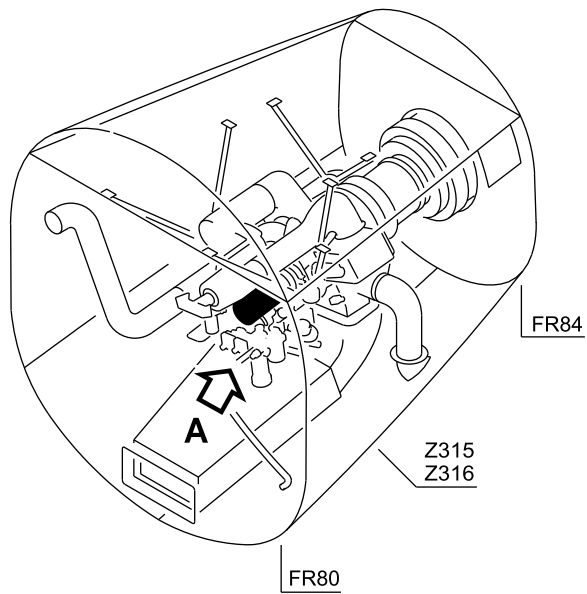
工作内容 Contents	工作者 Mech	检验者 Insp																				
<div>SUBTASK 49-42-51-860-077-A</div> <div>A. Aircraft Maintenance Configuration 飞机维护构形</div> <div>(1) Energize the ground service network (ALL Ref.TASK 24-42-00-861-001-A). 给飞机通电 (参考AMM 24-42-00-861-001-A)</div> <div>(2) On the panel 25VU, make sure that the APU MASTER SW pushbutton switch is off. 在25VU面板上,确认APU MASTER SW按钮在OFF位</div> <div>(3) Put a warning notice in the cockpit to tell persons not to start the APU. 在驾驶舱放置警告牌,禁止起动APU</div> <div>(4) Make sure that hydraulic systems are depressurized (ALL Ref.TASK 29-00-00-864-001-A). 确认液压系统已经释压(参考.AMM TASK 29-00-00-864-001-A)</div> <div>ALL</div> <div>SUBTASK 49-42-51-865-079-A</div> <div>B. Open, safety and tag this(these) circuit breaker(s): 打开、保险下列跳开关并挂标牌</div> <table><tr><th>PANEL</th><th>DESCRIPTION</th><th>FIN</th><th>LOCATION</th></tr><tr><td colspan="4">ALL</td></tr><tr><td>121VU</td><td>APU/APU/CTL</td><td>2-KD</td><td>L42</td></tr><tr><td colspan="4">ALL</td></tr><tr><td>121VU</td><td>APU/ECB/SPLY</td><td>1-KD</td><td>L41</td></tr></table> <div>ALL</div> <div>SUBTASK 49-42-51-010-070-A</div> <div>C. Get Access 接近</div> <div>(1) Put the access platform in position below the APU access doors 315AL and 316AR. 在APU接近门315AL和316AR下放置工作梯</div> <div>(2) Open the APU access doors 315AL and 316AR (ALL Ref.TASK 52-41-00-010-001-A). 打开APU接近门315AL和316AR.(参考 AMM TASK 52-41-00-010-001-A)</div> <div>(3) Set the LIGHT SW 11LJ to the ON position. 设置灯开关11LJ到ON位</div>	PANEL	DESCRIPTION	FIN	LOCATION	ALL				121VU	APU/APU/CTL	2-KD	L42	ALL				121VU	APU/ECB/SPLY	1-KD	L41		
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<div>2. Procedure 程序</div> <div>ALL</div> <div>(Ref Starter Motor Brush-Wear Indicator Figure 49-42-51-991-01000-16-A / SHEET 1)</div> <div>ALL</div>																						



工作内容 Contents	工作者 Mech	检验者 Insp				
SUBTASK 49-42-51-210-061-A A. Inspection of the Starter Motor 检查起动马达 CQH NOTE: The brush-wear indicator pin's color is red or black or others depends on the starter P/N. 春秋注意: 电刷磨损指示销的颜色根据启动机件号不同, 有红色、黑色或其他颜色 (1) If necessary, clean the brush-wear indicator area with 08BBB1 Non Aqueous Cleaner–Petroleum Based -. 如果需要,用清洁剂(Material No. 08BB1)清洁电刷磨损指示器区域 (2) Do a visual check of the brush-wear indicator pin position 目视检查电刷磨损指示销位置 <div style="text-align: center;"> ***** need to judge ***** ***** 以下需判断 ***** </div> (a) If the brush wear indicator pin is not visible: 如果电刷磨损指示销不可见 - Replace the starter motor (Ref.TASK 49-42-51-000-006-A) and (Ref.TASK 49-42-51-400-006-A). 更换起动马达(参考.AMM TASK 49-42-51-000-006-A 和 AMM TASK 49-42-51-400-006-A) (b) If the brush-wear indicator pin is visible, but there is any sign of oil contamination inside the indicator: 如果电刷磨损指示销可见,但是磨损指示器内部有任何滑油污染的痕迹 - Replace the starter motor (Ref.TASK 49-42-51-000-006-A) and (Ref.TASK 49-42-51-400-006-A). 更换起动马达(参考.AMM TASK 49-42-51-000-006-A 和 AMM TASK 49-42-51-400-006-A) (c) If the brush-wear indicator pin is visible, and there is no oil contamination inside the indicator, Perform the procedure 3. 如果电刷磨损指示销清晰可见, 同时磨损指示器内部无任何滑油污染, 请执行结束步骤3 <div style="text-align: center;"> ***** judge the end ***** ***** 判断结束 ***** </div>						
<table border="1"> <tr> <td>检查结果 (Checking result)</td> <td></td> </tr> <tr> <td>采取措施 (Maintenance)</td> <td></td> </tr> </table>	检查结果 (Checking result)		采取措施 (Maintenance)			RCI
检查结果 (Checking result)						
采取措施 (Maintenance)						
3. <u>Close-up</u> <u>结束</u> ALL						



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<p>SUBTASK 49-42-51-410-067-A</p> <p>A. Close Access 关闭接近</p> <p>(1) Make sure that the work area is clean and clear of tools and other items. 整理工具设备,清洁工作区域</p> <p>(2) Set the LIGHT control switch 11LJ to the OFF position. 将灯控制开关11LJ设置到OFF位</p> <p>(3) Close the APU access doors 316AR 315AL (ALL Ref.TASK 52-41-00-410-001-A). 关闭APU接近门316AR和315AL(参考.AMM TASK 52-41-00-410-001-A)</p> <p>(4) Remove the access platform(s). 移走工作梯</p> <p>ALL</p> <p>SUBTASK 49-42-51-865-080-A</p> <p>B. Remove the safety clip(s) and the tag(s) and close this(these) circuit breaker(s): 移走跳开关夹子,并闭合跳开关:</p> <table border="1"><thead><tr><th>PANEL</th><th>DESCRIPTION</th><th>FIN</th><th>LOCATION</th></tr></thead><tbody><tr><td colspan="4">ALL</td></tr><tr><td>121VU</td><td>APU/APU/CTL</td><td>2-KD</td><td>L42</td></tr><tr><td colspan="4">ALL</td></tr><tr><td>121VU</td><td>APU/ECB/SPLY</td><td>1-KD</td><td>L41</td></tr></tbody></table> <p>ALL</p> <p>SUBTASK 49-42-51-860-078-A</p> <p>C. Aircraft Maintenance Configuration 飞机维护构形</p> <p>(1) Put the related hydraulic system in the pressurized configuration (ALL Ref.TASK 29-00-00-864-001-A). 恢复相关液压系统到增压构型 (参考AMM TASK 29-00-00-864-001-A)</p> <p>(2) De-energize the ground service network (ALL Ref.TASK 24-42-00-862-001-A). 给飞机断电(参考.AMM TASK 24-42-00-862-001-A)</p> <p>(3) Remove the warning notice(s). 移走警告牌</p> <p>—————END OF TASK—————</p>	PANEL	DESCRIPTION	FIN	LOCATION	ALL				121VU	APU/APU/CTL	2-KD	L42	ALL				121VU	APU/ECB/SPLY	1-KD	L41		
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ALL

Figure 49-42-51-991-01000-16-A SHEET 1 of 1-Starter Motor Brush-Wear Indicator