



TASK CARD AMC-Fleet

Task Card: Brake Pad Replacement			Date: Feb 2018	Aircraft:
E/C:	P/N:	S/N:	A/C Pos:	NLA Pos:
<p>Description: This is a 4-person team task worth a maximum of 100 points. The time period to complete the task is 30 minutes. The team will work together to inspect, remove and replace brake pads using the equipment and procedures outlined below.</p>				

Area:	Labor Hours:	W/O Phase:
Skills:		

ITEM:	INSTRUCTIONS	MECH:	QC
	<p>OBJECTIVE: Given an aircraft brake assembly, tools, and reference material, perform the following with zero assistance from non-team members:</p> <ol style="list-style-type: none"> (1) Inspect brake linings and brake rotor for serviceability (2) Identify the type of brake lining (metallic or organic) (3) Remove, replace and re-install brake linings (4) Torque and safety wire caliper (5) Locate and indicate the proper brake in procedures <p>Tools: Cleveland / Parker reference guides (a) Technicians service guide (b) Component maintenance manual Brake lining rivet tool kit Brake lining rivets Torque wrench, lb-in Safety wire Diagonal cutters Pliers Clamps Micrometer – Vernier</p> <p style="text-align: center;">(See reverse)</p>		



ITEM:	INSTRUCTIONS	MECH:	QC
	<p>EVALUATION CRITERIA: Each team will be evaluated on the following skills, abilities, and outcomes:</p> <ul style="list-style-type: none"> • Complete a visual inspection of components <ul style="list-style-type: none"> ○ Damage / fatigue / integrity ○ Fit of components ○ Linings – damage / wear ○ Torque plate for security ○ Hydraulic leaks • Disassembly of caliper <ul style="list-style-type: none"> ○ Maintain control of hardware and components ○ Remove back plate and pressure plate ○ Install clamp so piston does not migrate out of caliper • Identify and replace brake linings <ul style="list-style-type: none"> ○ Metallic or Organic? ○ Remove old linings using proper techniques and tooling ○ Install new linings using proper techniques and hardware ○ Insure linings are tight and rivets are acceptable (IAW component MM) • Reassemble brake caliper <ul style="list-style-type: none"> ○ Proper assembly ○ Proper back plate torqueing process and torque ○ Safety wire back plate bolts <ul style="list-style-type: none"> ▪ No bleeding allowed • Reseat brake caliper / piston so brakes are firm • Identify / locate proper brake in procedures • Clean up and put tools and supplies away. <p>PROCEDURES:</p> <ol style="list-style-type: none"> 1. Inspect brake caliper, linings and brake rotor for proper dimensions IAW the reference guides. 2. Notify judge of type of lining material installed (metallic or organic). 3. Remove linings from back and pressure plates. 4. Re-install new linings and correctly install rivets. 5. Reinstall back and pressure plates, torque and safety IAW reference material. 6. Reseat brake caliper / piston so brakes are firm. 7. Show judge the proper “brake in” procedures in reference material. <p style="text-align: center;">----- END -----</p>		

BRAKE PAD REPLACEMENT SCORE SHEET

School/Team Name: _____

Judge Name: _____

Place a check mark next to each item that is correctly demonstrated by during this activity. Calculate the score for each evaluation area (far right column) according to your assigned check marks.

The total team score is the sum total of the individual items.

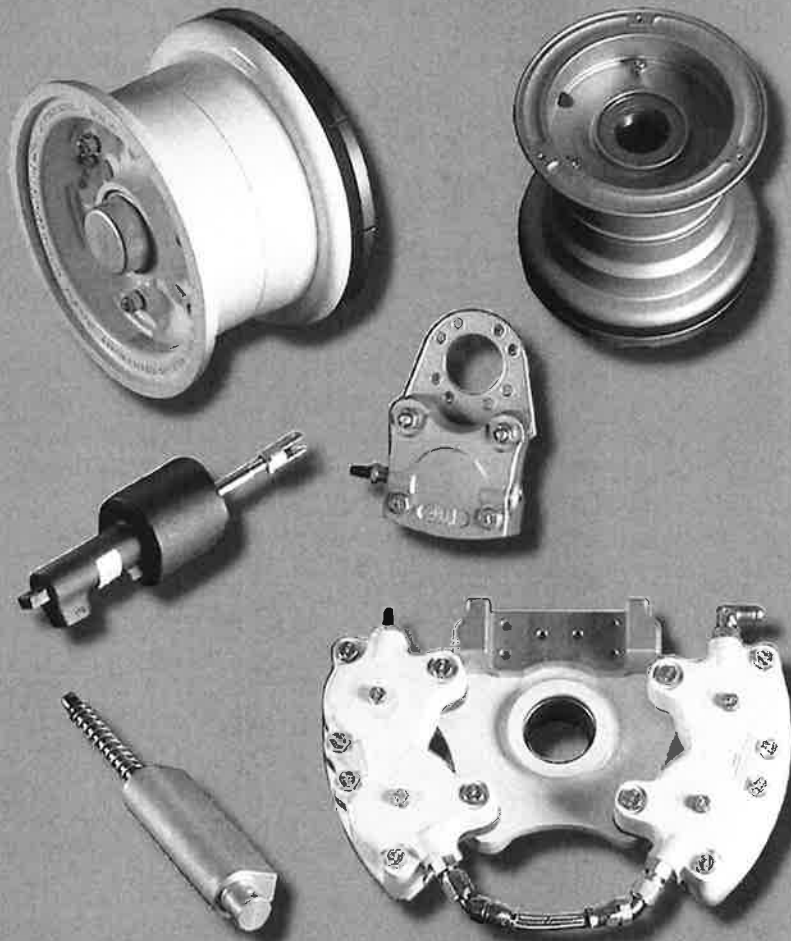
ITEM	EVALUATION CRITERIA	SCORE
1	Visual inspection of components (20 points maximum) Damage/Fatigue/Integrity (4 points) _____ Fit of components (4 points) _____ Lining damage/wear (4 points) _____ Torque plate security (4 points) _____ Hydraulic leaks (4 points) _____	
2	Disassembly of Caliper (15 points maximum) Maintain control of hardware/components (5 points) _____ Remove back plate and pressure plate (5 points) _____ Clamp installed on caliper (5 points) _____	
3	Identify and Replace brake linings (30 points maximum) Metallic or organic material? (5 points) _____ Proper technique/tool to remove linings (10 points) _____ Proper technique/hardware to install linings (10 points) _____ Tight linings and rivets (IAW MM) (5 points) _____	
4	Reassemble brake caliper (25 points maximum) Proper assembly (10 points) _____ Proper back plate torque process and torque (5 points) _____ Safety wire back plate bolts (No Blood) (10 points) _____	
5	Miscellaneous (10 points maximum) Reseat brake caliper/piston so brake are firm (5 points) _____ Identify/locate proper "brake in" procedures (5 points) _____	

TOTAL TEAM SCORE:

--

Technician's Service Guide

AWBTSG0001-1



Cleveland
Wheels & Brakes



Publication Number: **AWBCMM0001-12/USA**
AWBCMM0001 Issue 12, Dated: **July 01, 2014**

Reference

MANUALS

Refer to the applicable Component Maintenance Manual for detailed maintenance / overhaul procedures. Consult the Aircraft Maintenance Manual and Airframe Log Books (for optional installations) to confirm the approved part numbers for the particular aircraft application. If any inconsistencies are observed in this data, please notify Cleveland Customer Support.

IMPORTANT NOTE

Use of other manufacturer's components with original Cleveland Wheel & Brake assemblies will void the Cleveland Wheels & Brakes warranty.

SAFETY WARNING



FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application, including consequences of any failure, and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

CONTACT INFORMATION

Cleveland Wheels & Brakes, 1160 Center Road • Avon, Ohio 44011

www.clevelandwheelsandbrakes.com

www.parker.com

E-mail: clevelandwbhelp@parker.com

Customer Support Fax: 440-937-5409

Technical Service Hotline: 1-800-BRAKING (1-800-272-5464)

Literature Requests: 440-937-1315

© 2014 Parker Hannifin Corporation