

PREPARED BY <i>AK</i>	MacDONALD BROS. AIRCRAFT LTD. WINNIPEG .. CANADA	PAGE <u>1</u> OF <u>4</u>
CHECKED BY <i>JW</i>		REPORT <u>REPORT #1857</u>
APPROVED BY		Serial <u>59</u> September 22, 1953.
GOODYEAR BRAKE REWORK		

A. Work to be performed

1. Machine wheel halves to drawing 5R3-40.
2. Shrink fit ring gear into wheel half and instal securing screws.
3. Stamp "G" after part number and assembly number to make them read 9530106G and 530884MG.
4. Machine cylinder recesses in brake assemblies to drawing 5R3-38.
5. Stamp SG after part number to make it read 530886SG.
6. Re-assemble using parts listed in part B to drawing 5R3-39.
7. Functional test by applying 800 P.S.I. Hydraulic pressure to the brake. Apply and release this 10 times. After the 10th. application check the assembly for leaks and clearance. There should be a minimum of .005" clearance between the side of the disc and each lining on piston side.

- NOTES:
1. The green paint on disc (9530993) need not be removed.
 2. Wheels which have cracks at the key bolt holes will be reworked to Goodyear service letter AP-34 Page 3, note 4.
 3. No tests, other than paragraph 7 need be applied.
 4. Scrap old Drive keys.

B. Parts required for one brake assembly are listed on pages 2, 3, & 4.

C. REFERENCES

5R3-38	(Goodyear)
5R3-39	"
5R3-40	"
5R3-41	"
5R2-103	"
AP-34	(Service Letter)

MACDONALD BROTHERS AIRCRAFT

E. R. 1857 SERIAL 59 EXPEDITOR CONVERSION TO D18

Goodyear Brake Rework Installation

KIT # 59

ITEM NO	PART NUMBER	DESCRIPTION	QTY.	EXISTING IN A/C		GOODYEAR /BEECH SUPPLY	M. B. A. MFR.	R. C. A. F. SUPPLY
				REINSTAL	M. B. A. REWORK			
		Brake Assy.	REF.					
1	530886SG	Housing	1		X			
2	511921	Piston	3	X				
3	511809-6	Wiper - Felt	3	X				
4	AN6227-30	Seal - Piston - O - Ring	3	X				
5	511810	Pin - Self Adjusting	3	X				
6	511811	Spring - Brake release	3	X				
7	511812	Plate - Spring retaining	3	X				
8	NAS50-137P	Ring	3	X				
9	9521603	Head - cylinder	3			X		
10	AN6230-6	Seal	3				Stock	
11	AN6227-5	Seal	3				Stock	
12	511820-7	Washer	3			X		
13	9510895	Grip	3			X		
14	9510894	Nut	3			X		
15	AN6290 - 8	Gasket	2	X				
16	512054	Bushing	1	X				
17	AN6204-1	Valve	1	X				
18	511846-4	Washer	3	X				

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REMARKS

MACDONALD BROTHERS AIRCRAFT
 E.R. 1857 Serial 159 EXPEDITOR CONVERSION TO D18

KIT # 59

YEAR BRAKE REWORK INSTALLATION

PART NUMBER	DESCRIPTION	QTY.	EXISTING IN A/C		GOODYEAR /REWORK SUPPLY	M. B. A. MFR.	R. C. A. F. SUPPLY
			REINSTAL	M. B. A. REWORK			
01A10-5	Screw	2	X				
20-10-5	Screw	1	X				
1157	Adapter	1	X				
290-4	Gasket	1	X				
04-73	Plug	6	X				
21604	Lining - brake	6	X				
10513	Screen	1				Stock	
995F41	Wire - safety 36"	1			X		
30993	Disc - brake	REF.					
0884G	Wheel assy.	1		X			
30106G	Wheel half - inboard	1			X		
30992	Ring - internal Drive	12			X		
21608	Screw	12				Stock	
935-516L	Washer	2	X				
412	Cup - Bearing	1	X				
3017G	Wheel - out board	2	X				
2250	Cone	2	X				
520136	Ring	2	X				
10779-23	Ring	2	X				

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REMARKS Quantity 24 for wheels with cracks at the key bolt holes.

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[Signature]

MACDONALD BROTHERS AIRCRAFT

E.R. 1657 Serial 59 EXPEDITOR CONVERSION TO D18

GOODYEAR BRAKE REWORK INSTALLATION

KIT # 59

ITEM NO.	PART NUMBER	DESCRIPTION	Qty.	EXISTING IN A/C		GOODYEAR SUPPLY	M. B. A. MFR.	R. C. A. F. SUPPLY
				Reinstal	M. B. A. REWORK			
38	95-4771	Washer - plain	24	X				
39	AN365-624	Nut	12	X				
40	9520218	Bolt	12	X				

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REMARKS