

**Table of Contents**

<b><u>SUBJECT</u></b>	<b><u>PAGE</u></b>
LIST OF FIGURES .....	3
LIST OF TABLES.....	3
INTRODUCTION .....	4
PART NUMBERING SYSTEM.....	6
DESCRIPTION AND OPERATION.....	7
1. Brake Assemblies .....	8
2. Wheel Assemblies.....	9
<b>SECTION 100 - TROUBLESHOOTING .....</b>	<b>101</b>
1. General .....	101
2. Brake Assembly Troubleshooting .....	101
3. Wheel Assembly Troubleshooting.....	104
<b>SECTION 200 - ON-AIRCRAFT MAINTENANCE .....</b>	<b>201</b>
1. General .....	201
2. Brake Assemblies .....	201
A. Brake Inspection .....	201
B. Corrective Maintenance of Brakes.....	201
(1) Replacement of Brake Linings .....	202
(2) Lining Conditioning Procedures .....	209
3. Wheel Assemblies.....	210
A. Nose and Tail Wheel Inspection .....	210
B. Main Wheel Inspection.....	210
4. Tires .....	210
<b>SECTION 300 - OFF-AIRCRAFT MAINTENANCE.....</b>	<b>301</b>
1. General .....	301
2. Brake Assembly Maintenance.....	301
A. Removal From Aircraft .....	301
B. Brake Disassembly.....	302
(1) Disassembly Procedures .....	302
(2) Lining Removal .....	305
(3) Anchor Bolt Removal .....	306
C. Inspection .....	307
D. Brake Reassembly.....	309
(1) Reassembly Procedures .....	309
(2) Installation of Pistons .....	310
(3) Lining Installation .....	310
(4) Further Reassembly of Brake Components .....	310
E. Storage .....	311
3. Wheel Assembly Maintenance.....	311
A. Bearing Grease .....	312
B. Removal From Aircraft.....	312
(1) Removal of Main Wheel.....	312
(2) Removal of Nose Wheel .....	313
(3) Removal of Tail Wheel.....	314

**Cleveland**

Wheels &amp; Brakes



**Table of Contents**

<b><u>SUBJECT</u></b>	<b><u>PAGE</u></b>
C. Wheel Disassembly .....	315
(1) Tire Removal .....	315
(2) Bearing Cone Removal .....	316
(3) Inflation Valve Removal .....	317
(4) Bearing Cup Removal .....	317
D. Inspection .....	318
E. Wheel Reassembly .....	321
(1) Bearing Cup Installation .....	321
(2) Tire Mounting .....	322
(3) Disc Installation .....	323
(a) Brake Disc Attached with Wheel Tie Bolts .....	323
(b) Brake Disc Not Attached with Wheel Tie Bolts .....	324
(4) Inflation Valve Installation .....	325
(5) Bearing Installation .....	325
(6) Tire Inflation .....	326
F. Storage .....	326
4. Brake and Wheel Refinishing .....	327
A. Degreasing .....	327
B. Paint Removal .....	328
C. Surface Pretreatment .....	329
D. Repainting .....	330
5. Installation of Brake and Wheel Assemblies Onto Aircraft .....	332
A. Brake Installation .....	332
B. Wheel Installation .....	333
(1) Main Wheel .....	333
(2) Nose Wheel .....	334
(3) Tail Wheel .....	335
<b>APPENDIX A - WEAR LIMITS AND TORQUE VALUES .....</b>	<b>A-1</b>
A1. Brake Lining Wear Limits .....	A-1
A2. Brake Disc Minimum Thickness .....	A-2
A3. Back Plate Tie Bolt Torque .....	A-4
A4. Wheel Assembly Torque Values .....	A-8
A5. Tire Inflation Valve Stem Torque .....	A-11
<b>APPENDIX B - SPECIAL TOOLS / LUBRICANTS / REPAIR MATERIALS .....</b>	<b>B-1</b>
B1. Special Tools .....	B-1
B2. Lubricants For Elastomeric Compounds .....	B-1
B3. Lubricants .....	B-1
B4. Surface Repair .....	B-1
B5. Primers and Paints .....	B-2
B6. Chemical Stripping Agents .....	B-2
<b>APPENDIX C - BRAKE ASSEMBLY / LINING CROSS-REFERENCE .....</b>	<b>C-1</b>
C1. Brake Assembly / Lining Cross-Reference .....	C-1
<b>APPENDIX D - SERVICE BULLETINS .....</b>	<b>D-1</b>
<b>APPENDIX E - PRODUCT REFERENCE MEMOS .....</b>	<b>E-1</b>

**Cleveland**

Wheels &amp; Brakes

