

REVISIONS						
CA#	REV	DESCRIPTION OF CHANGE	CHK BY	CHK BY	DATE	APPROVED
00000764	J	REVISED & REDRAWN, SEE CA	RR	SS	01-20-2026	P. KRONZ

APPLICABILITY OF AIRCRAFT INSTALLATION FOR CLEVELAND KIT 199-90

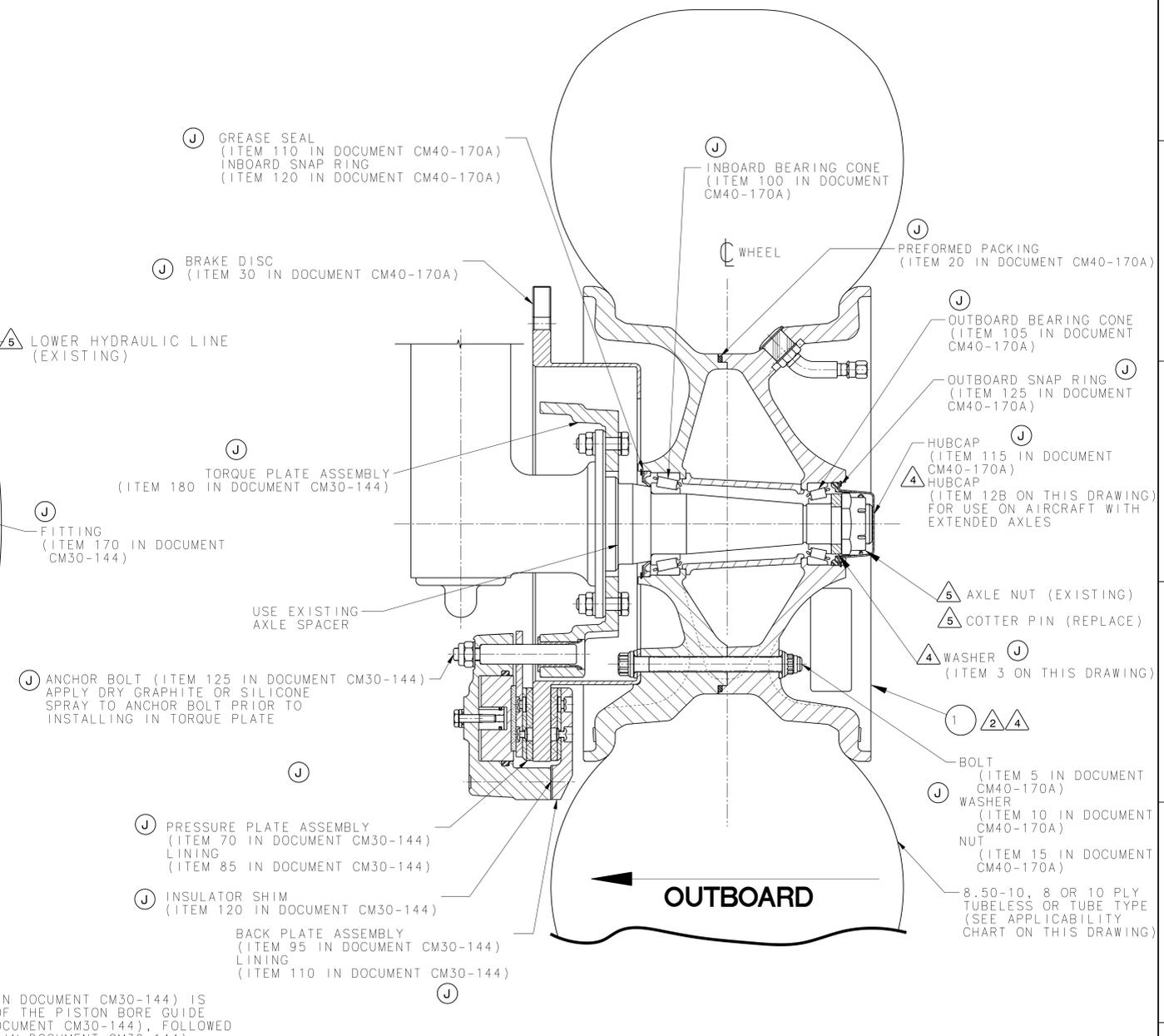
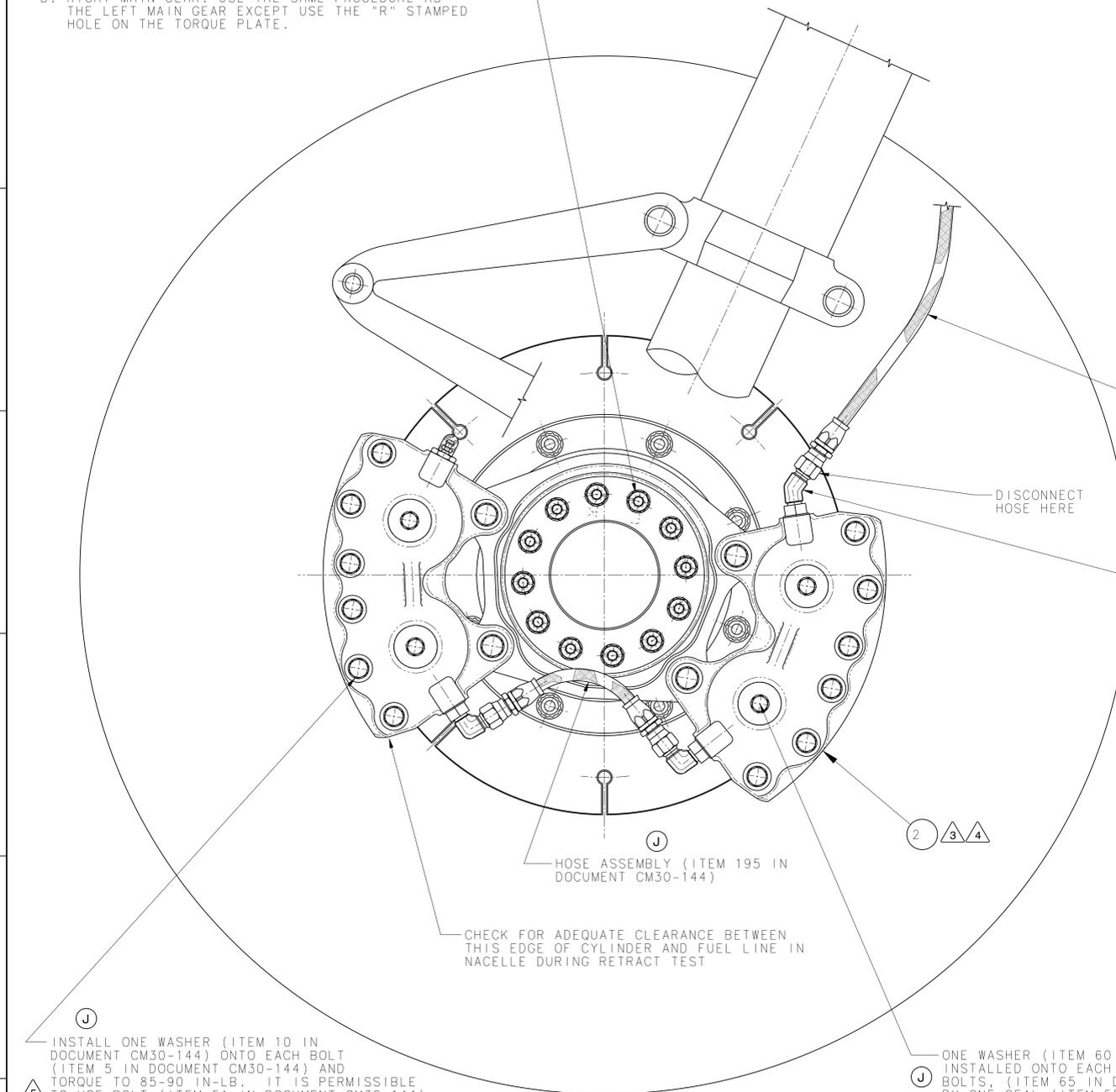
BEECH MODEL	TIRE SIZE	PLY	TYPE	PRESSURE
65-A90, B90, C90, C90GT, C90GTi	8.50-10 TYPE III	8 PLY	TUBELESS OR TUBE TYPE	52-58 PSI
E90, C90A, H90, 65-A90-1, 65-A90-4	8.50-10 TYPE III	10 PLY	TUBELESS OR TUBE TYPE	54-60 PSI
C90GT, C90GTi	8.50-10 TYPE III	10 PLY (OPTION)	TUBELESS OR TUBE TYPE	67-73 PSI

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TORQUE PLATE ASSEMBLY (ITEM 180 IN DOCUMENT CM30-144) MOUNTING INSTRUCTION:

TORQUE PLATE MOUNTING HARDWARE:
 BOLT (ITEM 6 ON THIS DRAWING)
 WASHER (ITEM 5 ON THIS DRAWING)
 NUT (ITEM 4 ON THIS DRAWING)
 TORQUE THE NUT TO BETWEEN 130 TO 150 LB-IN.

- A. LEFT MAIN GEAR: ALIGN THE TORQUE PLATE BOLT HOLE (IMPRESSION STAMPED WITH AN "L" ON INBOARD SIDE OF TORQUE PLATE) TO UPPERMOST BOLT HOLE ON FLANGE/STRUT CENTERLINE.
- B. RIGHT MAIN GEAR: USE THE SAME PROCEDURE AS THE LEFT MAIN GEAR EXCEPT USE THE "R" STAMPED HOLE ON THE TORQUE PLATE.



INSTALL ONE WASHER (ITEM 10 IN DOCUMENT CM30-144) ONTO EACH BOLT (ITEM 5 IN DOCUMENT CM30-144) AND TORQUE TO 85-90 IN-LB. IT IS PERMISSIBLE TO USE BOLT (ITEM 5A IN DOCUMENT CM30-144) INSTEAD OF BOLT (ITEM 5); IF USING BOLT (ITEM 5A), INSTALL SAFETY WIRE IN ACCORDANCE WITH CM30-144 (PAGES 5002 AND 7003) AND NASM33540.

ONE WASHER (ITEM 60 IN DOCUMENT CM30-144) IS INSTALLED ONTO EACH OF THE PISTON BORE GUIDE BOLTS, (ITEM 65 IN DOCUMENT CM30-144), FOLLOWED BY ONE SEAL (ITEM 55 IN DOCUMENT CM30-144). INSTALL SUCH THAT THE SEAL IS COMPRESSED BETWEEN THE WASHER AND THE BRAKE CYLINDER (ITEM 20 IN DOCUMENT CM30-144); IF BOLT IS REMOVED, LUBRICATE SEAL WITH DOW CORNING 55 MOLYKOTE O-RING GREASE AND TORQUE THE BOLT TO 25-30 IN-LB. IF THE SEAL IS LEAKING, REPLACE THE SEAL.

- NOTES:
1. REFER TO IM199-90 INSTALLATION MANUAL FOR DETAILED INSTALLATION INSTRUCTIONS.
 2. SEE CM40-170A MAINTENANCE MANUAL FOR WHEEL ASSEMBLY MAINTENANCE AND PARTS BREAKDOWN.
 3. SEE CM30-144 MAINTENANCE MANUAL FOR BRAKE ASSEMBLY MAINTENANCE AND PARTS BREAKDOWN.
 4. THIS COMPONENT IS SUPPLIED IN THE 199-90 KIT.
 5. THIS COMPONENT IS NOT SUPPLIED IN THE 199-90 KIT.
 6. A MODIFICATION TO THE AIRFRAME (WHEEL WELL) IS REQUIRED PRIOR TO INSTALLATION OF THE 199-90 KIT. REFER TO SHEET 2 OF THIS INSTALLATION DRAWING AND TO IM199-90 INSTALLATION MANUAL.
 7. THE BRAKE ASSEMBLY MUST BE USED WITH EITHER MIL-H-5606 OR MIL-PRF-5606 HYDRAULIC FLUID.
- QUANTITIES ARE PER KIT.
- "REMOVED"

ITEM NO.	QTY	PART NUMBER	NOMENCLATURE
1	1	40-170A	WHEEL ASSEMBLY 24X7.7 TYPE III
2	1	30-144	BRAKE ASSEMBLY
3	1	095-02900	WASHER
4	24	094-10400	NUT
5	48	095-10500	WASHER
6	24	103-22100	BOLT
7	32	105-00800	RIVET
8	1	110-05400	BRACKET (LEFT SIDE)
9	1	110-05500	BRACKET (RIGHT SIDE)
10	4	110-05600	END TAB
11	2	110-05700	FILLER
12B	2	158-01400	HUBCAP

GENERAL NOTES: UNLESS OTHERWISE SPECIFIED DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994 DIMENSIONS ARE IN INCHES TOLERANCES: 2 PLACE (.XX); 3 PLACE (.XXX); 4 PLACE (.XXXX); ANGULAR: 30.5° REMOVE ALL BURRS THIRD ANGLE PROJECTION BREAK CORNERS .010 MAX. INTERNAL RADI: .005-.010 GENERAL MACHINED SURFACES 12.5 PER ANSI B46.1 UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND MICROFINISHES APPLY TO COMPLETED PART, LESS PAINT

PROGRAM/CONTRACT NO. DRWN: P. HUNYAD 10-13-81 CHECKED: ENGINEER: PROJ APPROVAL: WFO ENGRG: QUAL ASSUR:

CLEVELAND WHEEL & BRAKE SYSTEMS Aircraft Wheel and Brake, LLC

INSTALLATION DRAWING - WHEEL & BRAKE

REV. E 33269 50-80 J

SCALE: .75:1 UNIT: WTG.: SHEET: 1 OF 2

