

## Cleveland Wheel and Brake Eligibility List And Axle Spacer Information

Wheel and Brake Eligibility List per LPC Bulletin 1675 (Rev. A)  
[Cleveland spacers.doc](#)

### CLEVELAND

A/C MODEL	MAIN GEAR ASSEMBLY	WHEEL	BRAKE	TORQUE PLATE	KIT NO.	TIRE SIZE	AXLE SPACER
PA-22 PA-22-135 PA-22-150 PA-22-160 PA-22-108	L1012-00 L1012-01	40-84	30-41B	75-29	199-231	600X6 700X6	I.B. U1105-06  O.B. U1105-07
PA-22 PA-22-135 PA-22-150 PA-22-160 PA-22-108	L1012-40 L1012-41	40-84	30-41B	75-29	199-231	600X6 700X6	I.B. U1105-06  O.B. U1105-09
PA-22 PA-22-135 PA-22-150 PA-22-160 PA-22-108	L1012-40 L1012-41	40-84	30-41B	75-29	(NO KIT)	600X6 700X6 800X6	I.B. U1105-05  O.B. U1105-10
PA-22 PA-22-135 PA-22-150 PA-22-160 PA-22-108	L1012-40 L1012-41	40-84	30-41B	N/A	(NO KIT)	600X6 700X6 800X6	I.B. U1105-00

NOTE: CLEVELAND WHEEL AND BRAKE INSTALLATIONS INCORPORATE THE USE OF PIPER AXLE NUT 13020-000 (OR FAA APPROVED EQUIVALENT) AND CLEVELAND DUST COVER 157-009 OR UNIVAIR P/N U1680-02.

### McCAULEY

A/C MODEL	MAIN GEAR ASSEMBLY	WHEEL	BRAKE	TORQUE PLATE	KIT NO.	TIRE SIZE	AXLE SPACER
PA-22 PA-22-135 PA-22-150 PA-22-160 PA-22-108	L1012-50 L1012-51	D-30291	D-30118	D-30278	(NO KIT)	600X6 700X6 800X6	I.B. U1105-01

**UNIVAIR AIRCRAFT CORPORATION**

**CLEVELAND 199-08700 AXLE SPACERS**

(This information is for the above kit using 40-84 wheels and 30-41B brakes. For other installations or for more complete information, please refer to LPC Bulletins 1675, 1676, 1677 and 1678.)

For installations approved under STC SA11RM using 1½" axles or 1½" axles welded onto existing gears.

AIRCRAFT MODEL	LANDING GEAR	SPACERS
J-3 Series PA-11 Series PA-12 Series PA-14 Series PA-16 Series PA-18 Series PA-20 Series		No Spacer Specified No Spacer Specified No Spacer Specified No Spacer Specified No Spacer Specified No Spacer Specified No Spacer Specified No Spacer Specified No Spacer Specified No Spacer Specified No Spacer Specified

For installations approved under STC-SA11RM.

AIRCRAFT MODEL	LANDING GEAR	SPACERS
PA-20 Series	L1012-00 L1012-01 & L1012-40 L1012-41	I.B. U1105-06 O.B. U1105-07 & I.B. U1105-06 O.B. U1105-09

For installations approved under STC-SA17RM.

AIRCRAFT MODEL	LANDING GEAR	SPACERS
PA-18 Series	L1014-00 L1014-01  L1015-00 L1015-01  L1015-30HD L1015-31HD	I.B. U1105-06 O.B. U1105-07  I.B. U1105-06 O.B. U1105-07  I.B. U1105-06 O.B. U1105-09

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For installations approved under STC-SA45RM

AIRCRAFT MODEL	LANDING GEAR	SPACERS
PA-22 Series	L1012-00	I.B. U1105-06
	L1012-01	O.B. U1105-07
	L1012-40	I.B. U1105-06
	L1012-41	O.B. U1105-09

Spacer Sizes

Spacer	Thickness
U1105-01	1.88"
U1105-02	Use U86062-057
U1105-03	1.60"
U1105-04	0.35"
U1105-05	1.53"
U1105-06	1.26"
U1105-07	0.54"
U1105-08	0.30"
U1105-09	0.72"
U86062-057	1.78"

To assist in the plumbing of the 199-0231 kits, it is recommended to use a 90° Elbow to connect the brake line to the fitting on the 30-41B brake. Use 2 ea. AN822-4D.

PA-22 using 199-08700 Kit

Use 2 each U1105-01 Spacers