

*Aerodynamics & Spec.*  
**CONFIDENTIAL****ARMY AIR FORCES  
MATERIEL CENTER****MEMORANDUM REPORT ON  
P-38G, A.C. No. 42-12690**

PFB-da

Date October 22, 1942

SUBJECT: Stall Tests

SECTION Flight

Contract No. ....

Expenditure Order No. 458-364SERIAL No. PS-M-19-1492-A

Purchase Order No. ....

**A. Purpose**

- To report stalling speeds obtained on the P-38G airplane, A.C. No. 42-12690.

**B. Test Results**

- All stalls with oil cooler and intercooler flaps neutral at approximately 10,000 feet altitude and at approximately 14,800 pounds gross weight.

Wing Flaps	Landing Gear	RPM	Man. Press.	I.A.S.	Calibrated Airspeed
Up	Up	1700	0	98	112
Down	Up	1300	0	76	86
Down	Down	1350	0	78	88
Up	Up	2000	25	92	107
Down	Down	2000	25	62	75

- Determination of airspeed and altimeter errors with a Type D-2 Kollsman pitot static head located 87 inches inboard from the left wing tip with static holes located 28 inches aft of the leading edge and 14-1/4 inches below the under surface of the wing.

Indicated Airspeed MPH	Water Column Airspeed MPH	Calibrated Airspeed MPH	Airspeed Installation Error MPH
(a) Flaps and gear up.			
115	113	127	-14
110	108	122.5	-14.5
105	103	118	-15
100	98	114	-16
95	93	110	-17

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Flight Section  
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Indicated Airspeed MPH	Water Column Airspeed MPH	Calibrated Airspeed MPH	Airspeed Installation Error MPH
(b) Flaps down and gear up.			
100	98	106	-8
90	87	98	-11
80	77	89	-12
70	67	82	-15
(c) Flaps down and gear down.			
100	98	106	-8
90	87	98	-11
80	77	89	-12
70	67	81	-14
65	61	78	-17

WWIIaircraftperformance.org

Concurrence:

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Chief, Flight Section

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