

How to Read Blueprint Numbers

(The following is quoted from: Canadian Forces, "Part List Expeditor", 05 Jan 70, pg 4)

General

Basic part or drawing numbers consist of six original digits; essentially two digits to designate basic model, one digit to designate major group or section and three additional serial digits.

For example, 644-189300 is decoded as:

6	-	Type
4	-	Class
4	-	Engine Type
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18	-	Basic Model (Model 18)
9	-	Group or Section
300	-	Drawing Serial

Type Numbers

The principal and original use of the type number was to indicate the type of aircraft of a special equipment drawing. Some drawings employ the type numbers of 6, 7, and 8 as class numbers.

0	-	Landplane (Note: The "O" is understood but never shown on drawings.)
1	-	Seaplane
2	-	Skiplane
3	-	Not used
4	-	Not used
5	-	Not used
6	-	Used to expand the class numbers
7	-	Used to expand the class numbers
8	-	Used to expand the class numbers
9	-	Special equipment

Class

The class numbers are used to indicate the weight classification on commercial models and functional classification of military models.

- 0 - Commercial aircraft of 7200 pounds, gross weight class
- 1 - Commercial aircraft of 7500 pounds, gross weight class, equipped with approximately 300 hp engines
- 2 - Commercial aircraft of 7500 pounds, gross weight class, equipped with approximately 400 hp engines
- 3 - Commercial aircraft of 7800 pounds, gross weight class
- 4 - Military aircraft for foreign countries
- 5 - Photographic aircraft
- 6 - USAF transports
- 7 - Navy transports
- 70 - Navy transports
- 77 - Navy transports
- 8 - USAF advanced trainers
- 80 - USAF advanced trainers
- 81 - USAF trainer
- 82 - Revised USAF transports
- 83 - Navy transports
- 84 - Navy advanced trainers
- 85 - Revised USAF transports
- 9 - Revised USAF transports

Engine Type

- 1 - Wright 7 cylinder
- 2 - Jacobs L-6
- 3 - Wright 9 cylinder
- 4 - Pratt and Whitney Wasp, Jr.
- 5 - Jacobs L-5
- 6 - Jacobs L-4
- 7 - Continental

Group Numbers

Group numbers are allocated as follows:

- 0 - Miscellaneous – three view drawings, electrical equipment, flare brackets, lugs, rods, placards, etc
- 1 - Wing Panels – Wing assembly, wing spars, wing ribs, ailerons, flap, etc
- 2 - Wing Braces – Wing struts, longerons, fittings, aileron and flap brackets, etc
- 3 - Cabin Furnishings – Cabin floor and door, rug, woodwork, instrument panel
- 4 - Fuselage Structure – Fuselage spars, longerons, bulkheads, fittings
- 5 - Fairing and Cowling – Nacelle, forward fuselage structures, tail structure, etc
- 6 - Tail Surfaces and Braces – Tail skins, struts, longerons, fittings
- 7 - Control Installations – Flight
- 8 - Landing Gear – Wheel and brake, struts, shock absorber, etc
- 9 - Power Plant – Engine, propeller, carburetor, primer, etc