



**I. Model 727, 727-100 and 727C and 727-100C** (cont'd)

Maximum Weights: (cont'd)

<u>Model</u>	<u>Eligible Serial Numbers:</u>
727-22	18293-18332, 18791, 18848, 18849, 18851-18857, 18859-18872, 19079-19088, 19140-19154
727-22C	19089-19103, 19191-19205, 19805, 19806, 19890-19895
727-23	18426-18450, 18900-18901, 19128, 19132, 19180-19184, 19385-19390, 19428-19432, 20044-20046
727-24C	19524-19528
727-25	18252-18291, 18965-18974
727-25C	19298-19302, 19356-19360, 19717-19722, 19850-19858
727-27	19499-19501, 19534, 19535
727-27C	19109-19120, 19246, 19497, 19532, 19533
727-29	19400, 19401
727-29C	19402, 19403, 19987
727-30	18360-18371, 18933-18936
727-30C	19008-19012, 19310-19314, 19793
727-31	18569-18578, 18750-18755, 18902-18907, 19228, 20112-20115
727-31C	19229-19234
727-35	18811-18817, 18845-18847, 19165-19167, 19833-19835
727-41	20422-20425
727-44	18892-18896, 19318
727-44C	19319, 20475, 20476
727-46	18874-18879, 19279-19283, 20078
727-51	18797-18807, 18942-18944, 19121-19126
727-51C	18897-18899, 18945-18947, 19206, 19287-19290
727-59	19127, 19303, 19662, 19663
727-61	19176
727-62C	19244, 19245
727-63	19846
727-64	19255, 19256, 19427
727-76	18741, 18742, 18843, 19254, 20228, 20371
727-77	18743, 18744, 18844, 19253
727-77C	20278, 20370
727-78	18794-18796
727-81	18821-18823, 18919, 18920, 18951, 18952, 19557
727-82	19404-19406, 20489
727-82C	19597, 19968
727-86	19171, 19172, 19816, 19817
727-89	19138, 19139
727-90C	19169, 19170, 19728
727-92C	19173, 19174
727-95	18850, 18858, 19249-19252, 19595, 19596, 19836, 19837
727-108C	19503
727-109	19399, 19520
727-109C	20111
727-113C	19690, 20343
727-114	19815
727-116	19811, 19812, 20217
727-116C	19813, 19814
727-121C	19818, 19819
727-123	19838, 19839
727-134	19691, 19692
727-134C	20042
727-151C	19867, 19868
727-155C	19618, 19619
727-162	19243
727-171C	19859, 19860
727-172C	19665, 19666, 19807, 19808
727-173C	19504-19509

**I. Model 727, 727-100 and 727C and 727-100C** (cont'd)

## Maximum Weights: (cont'd)

<u>Model</u>	<u>Eligible Serial Numbers:</u>
727-180C	19873, 19874
727-185C	19826, 19827
727-191	19391-19395
727-193	19304, 19305, 19620
727-1A0	20279
727-1A7C	20143
727-1F8	20421
727-1H2	20533
727-1J1	20426
727-C3	20418-20420

Minimum crew When in the mixed passenger/cargo configuration, one flight attendant is required in the passenger compartment (review Case No. 5 dated July 17, 1963).

Maximum passengers 119  
129 under provisions of Exemption No. 255.  
131 under provisions of Exemption No. 255 and if compliance with FAR 25.2 is shown.

Maximum Baggage/Cargo: See appropriate Weight and Balance Control and Loading Manual.

Fuel and Oil Capacities: See appropriate Weight and Balance Control and Loading Manual.

Minimum Required Fuel: See appropriate FAA Approved Airplane Flight Manual.

Maximum Operating Altitude 42,000 feet

Datum All production stations coincide numerically with arms. Horizontal distance of datum to nose gear jack point is 303.2 inches.

MAC 180.7 inches (L.E. of MAC is at 860.2 inches)

Certification basis CAR 4b, dated December 31, 1953, Amendments 4b-1 through 4b-11 thereto:  
Special CAR SR-422B: Special Conditions listed in Attachment "A" of FAA letter to Boeing dated October 27, 1961, and FAA letter to Boeing dated June 12, 1963.

Exemptions from CAR 4b:727, 727-100, 727C and 727-100C:

Exemption No. 255 - Exemption from CAR 4b.362(c)(1) - allows 131 passengers.

727 and 727-100:

Exemption No. 1834 - Exemption from CAR 4b.356(b) - allow removal of aisle strap from 727 and 727-100 incorporating a Type I emergency exit on each side of the fuselage near the aft end of the passenger cabin and an inflatable evacuation slide at each side exit.

727C and 727-100C:

Exemption No. 348 - Exemption from CAR 4b.362(c)(1) - allow 79 passengers with main deck cargo (one or two cargo pallets).

Exemption No. 348 - Exemption from CAR 4b.362(c)(1) - allow 56 passengers with main deck (three or four cargo pallets).

Other Information: See "Data Pertinent to All Models."

**II. Model 727-200 (approved November 29, 1967) Transport Aircraft**

Engines	3 Pratt and Whitney JT8D-1, JT8D-1A, JT8D-1B, JT8D-7, JT8D-7A, JT8D-7B, JT8D-9, JT8D-9A, JT8D-11, JT8D-15, JT8D-15A, JT8D-17, JT8D-17A, or JT8D-17R, JT8D-17AR turbofans. (For engine intermix, see Note 9)
Fuel	See Note 5.
JATO:	6 Aerojet 15KS-1000-A1 thrust augmentation units, approved for use with Pratt and Whitney JT8D-11, JT8D-15, JT8D-15A, and JT8D-17, JT8D-17A turbofans with 15° flaps.

Engine ratings	JT8D-11	JT8D-15, -15A	JT8D-17, -17A	JT8D-17R*, -17AR
Takeoff static thrust, standard day, sea level conditions (5 min.) lb.	15,000	15,500	16,000	17,400
Maximum continuous static thrust standard day, sea level conditions lb.	12,600	13,750	15,200	15,200

\*A takeoff thrust setting limited to the alternate takeoff rating of 16,400 lbs. static thrust at sea level, flat rated to 77°F ambient temperature has been established for normal takeoff operation. When the automatic reset mechanism in the fuel control is utilized, operation to the alternate takeoff operating limits will prevent the engine from exceeding the takeoff rating operating limits when the reset mechanism is actuated.

NOTE: For engine operating limitations see engine T.C. data sheet No. E2EA, or the FAA Approved Airplane Flight Manual.

Thrust setting	The appropriate EPR thrust setting curve (EPR or PT 7), in the FAA Approved Airplane Flight Manual or AFM Appendices must be used for control of engine thrust.
Airspeed limits	VMO/MMO Single mode 390/0.9 (KEAS) - Dual Mode for 191,000 lb. GW or less 390/350/.9(KEAS) - Greater than 191,000 lbs. GW 390/350/.88(KEAS) For other airspeed limits see the appropriate FAA Approved Airplane Flight Manual.
C.G. range	See the appropriate FAA Approved Airplane Flight Manual.
Maximum weights	See the appropriate FAA Approved Airplane Flight Manual.

<u>Model</u>	<u>Eligible Serial Numbers</u>
727-208	22295
727-212	21347-21349, 21458-21460, 21945-21948
727-214	19683-19689, 20161-20169, 20366, 20367, 20678, 20679, 20875, 21512, 21513, 21691, 21692, 21958
727-217	21055, 21056
727-221	22535-22542
727-222	19537-19542, 19899-19915, 20037-20041, 21398-21425, 21557-21574, 21892-21921
727-223	19475-19495, 19700-19704, 20180-20193, 20984-20997, 21084-21090, 21369-21374, 21382-21391, 21519-21527, 22006-22015, 22459-22470
727-224	19510-19514, 19797-19804, 20243-20245, 20384-20388, 20463-20465, 20654-20668, 22448-22452
727-225	20144-20155, 20379-20383, 20415, 20416, 20441-20448, 20614-20628, 20823, 20824, 21288-21293, 21449-21453, 21578-21581, 21854-21861, 22432-22441, 22548-22557, 22559
727-227	20392-20394, 20608-20613, 20729-20738, 20772-20775, 20837-20840, 21041-21045, 21118, 21119, 21242-21249, 21363-21366, 21394, 21395, 21461-21466, 21488-21493, 21529-21532, 21669, 21670, 21996-22005, 22091, 22092
727-228	19543-19546, 19861-19865, 22075, 20202-20204, 20409-20411, 20470, 20538-20540, 22081-22085, 22287-22290

**II. Model 727-200** (cont'd)

## Maximum weights (cont'd)

727-230	20430, 20431, 20525, 20526, 20560, 20673-20677, 20757, 20788-20792, 20899-20906, 20918, 21113, 21114, 21442, 21618-21623
727-231	19558-19565, 19828-19832, 20047-20055, 20098, 20099, 20232-20234, 20306-20310, 20460-20462, 20490-20491, 20843-20859, 21628-21634, 21967-21969, 21983-21989
727-232	20634-20647, 20743-20756, 20860-20867, 21018-21020, 21060-21062, 21074-21077, 21142-21153, 21222, 21223, 21232, 21233, 21256-21259, 21271-21274, 21303-21315, 21430-21433, 21469-21472, 21582-21587, 21702, 21703, 21813, 21814, 22045-22049, 22073, 22076, 22385-22387, 22391, 22392, 22493, 22494, 22677
727-233	20932-20942, 21100-21102, 21624-21626, 21671-21675, 22035-22042, 22345-22350, 22621-22623
727-235	19450-19474
727-243	21264-21270, 21661-21664, 22052, 22053, 22165-22168, 22702
727-247	20263-20268, 20579-20581, 20648, 20649, 20868-20874, 21057-21059, 21327-21331, 21392, 21393, 21481-21485, 21697-21701, 22108-22112, 22532-22534
727-251	19970-19985, 20289-20296, 21154-21161, 21322-21325, 21375-21379, 21503-21506, 21788, 21789, 22152-22155, 22543, 22544
727-254	20250-20252, 20437, 20438
727-256	20592-20607, 20811-20821, 20974, 20975, 21609-21611, 21777-21781
727-259	22474-22476
727-260	21978, 21979, 22759
727-264	20432-20434, 20709, 20710, 20780, 20787, 20894-20896, 21071, 21072, 21577, 21617, 21637, 21638, 21836-21838, 22156-22158, 22409-22414, 22661-22664, 22676, 22982-22984, 23014
727-269	22359-22361, 22763
727-270	21197-21199, 22261, 22262, 23052
727-276	20552-20555, 20950, 20951, 21171, 21479, 21646, 21696, 22017, 22069
727-277	20548-20551, 20978, 20979, 21178, 21480, 21647, 21695, 22016, 22068, 22641-22644
727-281	20285, 20286, 20435, 20436, 20466-20469, 20509, 20510, 20568-20573, 20724-20728, 20876-20878, 21455, 21456, 21474
727-282	20972, 20973, 21949, 21950, 22430
727-284	19536, 20003-20006, 20201
727-286	20945-20947, 21078, 21079
727-287	21688-21690, 22603-22606
727-290	21510, 21511, 22146, 22147
727-291	19991-19995
727-294	21203-21205, 22043, 22044
727-295	19444-19449, 20139-20141, 20248, 20249
727-2A1	21341-21346, 21600, 21601
727-2A7	20240, 20241
727-2B6	20304, 20471, 20705, 21068, 21297-21299, 22377
727-2B7	20302, 20303, 21953, 21954, 22162-22164
727-2D3	20885, 20886, 21021, 22268-22271
727-2D4	21849, 21850
727-2D6	20472, 20473, 20955, 21053, 21210, 21284, 22372-22375, 22765
727-2F2	20980-20983, 21260, 21603, 22992, 22993, 22998, 22999
727-2F9	21426, 21427
727-2H3	20545, 20739, 20822, 20948, 21179, 21234, 21235, 21318-21320
727-2H9	20930, 20931, 21037-21039, 22393, 22394, 22665, 22666
727-2J0	21105-21108
727-2J1	21036
727-2J4	20764-20766, 21438, 21676, 22079, 22080, 22574
727-2J7	20706, 20707, 20879, 20880
727-2K3	21082, 21494, 21495, 22770
727-2K5	21851-21853
727-2L4	21010
727-2L5	21050-21052, 21229, 21230, 21332, 21333, 21539, 21540
727-2L8	21040, 21080
727-2M1	21091

**II. Model 727-200** (cont'd)

## Maximum weights (cont'd)

727-2M7	21200-21202, 21457, 21502, 21655, 21656, 21741, 21742, 21823, 21824, 21951, 21952
727-2N6	22825
727-2N8	21842, 21844-21847
727-2P1	21595
727-2Q4	22424, 22425
727-2Q6	21971, 21972
727-2Q8	21608, 21826
727-2Q9	21930, 21931
727-2R1	21636
727-2S7	22019-22021, 22344, 22490-22492
727-2T3	22078
727-2U5	22362
727-2X3	22608, 22609
727-2X8	22687
727-2Y4	22968

Maximum passengers: 170

189 if compliance with FAR 25.2(b), (c), and (d) is shown.

Maximum baggage/cargo:

See appropriate Weight and Balance Control and Loading Manual.

Fuel and oil capacities:

See appropriate Weight and Balance Control and Loading Manual (for fuel and oil capacities, including undumpable and unusable amounts).

Minimum required fuel:

See appropriate FAA Approved Airplane Flight Manual.

Maximum operating altitude:

42,000 feet

Datum:

See appropriate Weight and Balance Control and Loading Manual. Horizontal distance of datum to nose gear jack point is 183.2 inches.

MAC:

180.7 inches (L.E. of MAC is 860.2 inches).

Certification basis

CAR 4b, dated December 31, 1953, Amendments 4b-1 through 4b-11 thereto: Special CAR SR-422B; Special Conditions set forth in FAA letter to Boeing dated February 2, 1967, as revised by FAA letters to Boeing dated June 20, 1967, September 1 and 13, 1967; FAR Amendment 25-15; FAR Amendment 36-2.

Special Condition 25-64-NW-2 issued August 6, 1975, and Amendment 1 thereto issued November 16, 1976, applies to Model 727-200 series airplanes equipped with an operative automatic takeoff thrust control system (called by Boeing an "Automatic Performance Reserve" (APR) system) issued an original airworthiness certificate before December 3, 1980.

Special Condition 25-64-NW-2, Amendments 2 and 3 thereon, issued 5/18/79, and 12/12/79, respectively, apply to Boeing Model 727-200 series airplanes equipped with an operative automatic takeoff thrust control (ATTCS) system and issued an original airworthiness certificate on and after 12/3/80.

Exemptions from CAR 4b: Exemption 1834 - Exemption from CAR 4b.356(b) - allow removal of aisle strap from 727-200 incorporating a Type I emergency exit on each side of the fuselage near the aft end of the passenger cabin and an inflatable evacuation slide at each such exit.

Other information:

See "Data Pertinent to All Models."

**III. Model 727-200F (approved June 22, 1983) Transport Aircraft**

Engines	3 Pratt and Whitney JT8D-17A turbofans.
Fuel	See Note 5.
JATO	None
Engine ratings:	
	<u>JT8D-17A</u>
	Takeoff static thrust, standard day, sea level conditions (5 min.) lb. 16,000
	Maximum continuous static thrust standard day, sea level condition lb. 15,200
	NOTE: For engine operating limitations see engine TC Data Sheet No. E2EA, or the FAA Approved Airplane Flight Manual.
Thrust setting	The appropriate EPR thrust setting curve (EPR or PT 7), in the FAA Approved Airplane Flight Manual or AFM Appendices must be used for control of engine thrust.
Airspeed limits	VMO/MMO Single mode 350/0.88 (KEAS) For other airspeed limits see the appropriate FAA Approved Airplane Flight Manual.
C.G. Range	See the appropriate FAA Approved Airplane Flight Manual.
Maximum weights	See the appropriate FAA Approved Airplane Flight Manual.
	<u>Model</u> <u>Eligible Serial Numbers:</u>
	727-2S2F                      22924-22938
Maximum passengers	None
Maximum baggage/cargo	See appropriate Weight and Balance Control and Loading Manual.
Fuel and oil capacities	See appropriate Weight and Balance Control and Loading Manual (for fuel and oil capacities, including undumpable and unusable amounts).
Minimum required fuel	See appropriate FAA Approved Airplane Flight Manual.
Maximum operating altitude	42,000 feet
Datum	See appropriate Weight and Balance Control and Loading Manual. Horizontal distance of datum to nose gear jack point is 183.2 inches.
MAC	180.7 inches (L.E. of MAC is 860.2 inches.)
Certification basis	CAR 4b, dated December 31, 1953, Amendments 4b-1 through 4b-11 thereto: Special CAR SR-422B; Special Conditions set forth in FAA letter to Boeing dated February 2, 1967, as revised by FAA letters to Boeing dated June 20, 1967, September 1 and 13, 1967; FAR Amendment 25-15; FAR 25.723 (Amendment 25-46); FAR 36.2 (Amendment 36-10). Special Condition 25-64-NW-2, Amendments 2 and 3 thereon, issued 5/18/79, and 12/12/79, respectively, apply to Boeing Model 727-200 series airplanes equipped with an operative automatic takeoff thrust control (ATTCS) system and issued an original airworthiness certificate on and after 12/3/80. Equivalent Safety Findings exist with respect to CAR 4b.651(d)(3)(i) and CAR 4b.651(d)(3)(iii).
Other information	See "Data Pertinent to All Models."

**Data Pertinent to All Models**

Minimum crew for all flights	Three (3) pilot, copilot, and flight engineer
Leveling means	A plumb bob attachment and leveling provision scale are provided in the left wheel well on 727/727-100 and 727C/727-100C airplanes, and in the right wheel well on 727-200 airplanes.
Control surface movements	To insure proper operation of airplane, the movement of the various control surfaces must be carefully controlled by proper rigging of the flight control systems. The airplane must therefore be rigged in accordance with the following FAA-approved data:

Boeing Drawing Numbers

<u>727-200</u>	<u>727/727-100 and 727C/727-100C</u>	
65-56801	65-20801	Control Installation Aileron and Spoiler
65-56802	65-20802	Control Installation Elevator
65-56803	65-20803	Control Installation Rudder
65-56804	65-20804	Control Installation Stabilizer Trim
65-56805	65-20805	Control Installation Aileron Trim
65-56806	65-20806	Control Installation Rudder Trim
65-56808	65-20808	Control Installation Wing Flap
65-56816	65-20816	Control Installation Speed Flap

Certification basis	See Section I or Section II, as appropriate. Compliance with the following optional requirements has been established: CAR 4b.361, "Ditching Provision" CAR 4b.640, "Ice Protection"
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Production basis	Production Certificate Number 700.
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Required equipment	The basic required equipment as prescribed in the applicable airworthiness regulations (see certification basis) must be installed in the aircraft for certification. The required equipment is included in the type design data. See appropriate Weight and Balance Manuals and Note 8 for replacement passenger seats.
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Service information	Boeing Report D6-4062, "Structural Repair Manual" is FAA-approved. Service bulletins and other service information when FAA-approved, will carry a statement to that effect.
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NOTE 1. Current weight and balance document, including list of equipment included in certificated weight empty and loading instructions, must be in each aircraft at the time of original certification and at all times thereafter, except in the case of operators having an approved weight control system.

NOTE 2. The aircraft must be operated in accordance with the FAA Approved Airplane Flight Manual.

NOTE 3. Reserved.

NOTE 4. (a) The fuel controls approved for use with these engines are Hamilton Standard Models JFC 60-1 (JT8D-1, -1A, -7, -7A, and -7B), JFC 60-2 (JT8D-9, -11, -15, -15A, and -17, -17A), and JFC 60-3 (JT8D-17R, 17AR).

(b) The anti-icing system airflow regulating valve approved for use with this engine is Pratt & Whitney Part No. 480888. P&WA Orifice Plate Part No. 528226 may be used in lieu of the valve.

NOTE 5. (a) JP-1, JP-4 and JP-5 fuels conforming to P&WA Specification No. 522 and later revisions may be used separately or mixed in any proportions without adversely affecting the engine operation or power output. No fuel control adjustment is required when switching fuel types.

(b) Phillips anti-icing fuel additive PFA-55MB may be used if concentration delivered to airplane does not exceed 0.15% by volume. No fuel system anti-icing credit is allowed.



- NOTE 6. A list of the FAA-approved Interior Arrangement Drawings for all models of the Boeing 727 aircraft is contained in Boeing Document D6-6903.
- NOTE 7. Reserved.
- NOTE 8. The airplane design vertical load factors exceed TSO C-39 requirements at all fuselage stations for 727, 727-100, 727C, and 727-100C models and aft fuselage station 950D for 727-200 models: therefore, replacement passenger seats must be evaluated for compliance with CAR 4b.358(c) accordingly.
- NOTE 9. Combinations of engines which can be intermixed and their respective limitations are covered in the FAA Approved Flight Manuals or AFM Appendices.
- NOTE 10. Noise:  
Model 727, 727-100, 727C, 727-100C, 727-200 and 727-200F. Airplanes of these models that have not had any flight time before December 1, 1973, and are issued an original U.S. Standard Airworthiness Certificate after December 1, 1973, must show compliance with FAR Part 36. Configurations that meet the noise requirements are shown in Appendix 33 of the FAA Approved Airplane Flight Manual for the Model 727, 727-100, 727C, and 727-100C, and in Appendix 12 of the FAA Approved Flight Manual for the Model 727-200 and 727-200F.  
  
Model 727-200. Noise characteristics, approved type design configurations, including required acoustical treatment and certification status of Model 727-200 airplanes operated at brake release gross weight from 172,500 pounds to a maximum of 203,100 pounds approved before December 1, 1973, are shown in the FAA Approved Model 727-200 Airplane Flight Manual.
- NOTE 11. There are service bulletins which call for modifications which do not comply with the Type Certification Basis. These service bulletins are listed in Boeing Document D6-9825 titles "Service Bulletin 727." The records of airplanes imported into the USA should be reviewed to be sure that further modifications are accomplished to ensure compliance, if the non FAA-approved service bulletins modifications have been installed.

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