

LOCKHEED F-104 STARFIGHTER

F-104 SERVICE

Manufacturer: The Lockheed Aircraft Corp., Burbank, California, USA
(Designed by Lockheed "Skunk" Works)

Models: Model 83, 183, 283, 383, 483, 583, 683, 783

Designations: F-104; X-27, CF-104 (RCAF)

Name: Starfighter

First official flight: XF-104 04/03/1954

Factory production period: 1953 – 1966
1960 – 1979 (Foreign built)

Primary service period: 1958 – 1969

1959 – 2005 (Foreign service)

Last official flight: F-104D 07/1975

F-104 VARIANTS

1954	Model 083-92-01	XF-104	2	
1956	Model 183-93-02	YF-104A	17	Total: 0019
1956	Model 183-92-02	F-104A	153	
1957	Model 283-93-03	F-104B	26	Total: 0179
1958	Model 383-04-05	F-104C	77	
1958	Model 483-04-06	F-104D	21	
1962	Model 583B-10-17	F-104DJ	20	
1959	Model 483-04-08	F-104F	30	
1961	Model 583A-04-15	CF-104D	38	Total: 0186
1960	Model 683/683C/-10-19	F-104G	140	
1962	Model 683C-04-10	RF-104G	40	
1962	Model 583C/D/E/F/G/H/-10-20	TF-104G	220	Total: 0400
1961	Model 683B-07-14	F-104J	3	
1963	Model 683C	F-104N	3	Total: 0006
				<u>Total: 0790</u>
	<i>Foreign built – Belgium:</i>			
1961	Model 683	F-104G	188	Total: 0188
	<i>Foreign built – Canada:</i>			
1961	Model CL-90	CF-104	200	
1963	Model 683	F-104G	140	Total: 0340
	<i>Foreign built – Italy:</i>			
1964	Model 683	F-104G	164	
1964	Model 683	RF-104G	35	
1968	Model 783	F-104S	246	Total: 0445

	<i>Foreign built – Japan:</i>			
1962	Model 683	F-104J	207	Total: 0207
	<i>Foreign built – The Netherlands:</i>			
1961	Model 683	F-104G	231	
1963	Model 683	RF-104G	119	Total: 0350
	<i>Foreign built – West Germany:</i>			
1960	Model 683	F-104G	260	Total: 0260
				Total: 1790
				Grand Total: 2580

F-104 PRODUCTION

XF-104

*Prototype single seat interceptor fighter.
produced 1954*

Lockheed Burbank, California (LO)
53-7786, 53-7787 083-1001, 1002 2 **Total: 0002**

YF-104A

*As XF-104, lengthened fuselage, engine
upgrade. Later upgraded to **F-104A** standard.
produced 1955 – 1956*

Lockheed Burbank, California (LO)
55-2955 / 55-2971 183-1001 / 1017 17 **Total: 0017**

F-104A

*As YF-104A, engine upgrade, ventral fin,
equipment upgrades.
produced 1956 – 1958*

Lockheed Burbank, California (LO)
56-730 / 56-882 183-1018 / 1170 153 **Total: 0153**

(Model 383-93-04) RF-104A – 1954, reconn. version of F-104A, 18 cancelled.

TF-104A – Trainer version of F-104A, cancelled in favour of F-104B.

F-104B

*As F-104A, 2-seater trainer, larger tail.
produced 1956 – 1958*

Lockheed Burbank, California (LO)
56-3719 / 56-3724 283-5000 / 5005
57-1294 / 57-1313 283-5006 / 5025 26 **Total: 0026**

F-104C

*As F-104A, tactical strike version,
engine upgrade.*

produced 1958 – 1959
Lockheed Burbank, California (LO)
56-883 / 56-938 383-1171 / 1226
57-910 / 57-930 383-1227 / 1247 77 **Total: 0077**
363 additional airframes cancelled.

F-104D

As F-104C, 2-seater trainer.

produced 1958 – 1959

Lockheed Burbank, California (LO)

57-1314 / 57-1334 483-5026 / 5046

21 **Total: 0021**

83 additional airframes cancelled.

F-104DJ

As F-104D, version for Japan. Components built by Lockheed, assembled by Mitsubishi.

produced 1962 – 1964

Lockheed Burbank, California (LO)

(JASDF)

16-5001 / 16-5020 583B-5401 / 5420

20 **Total: 0020**

F-104E – Not used.

F-104F

As F-104D, version for West Germany.

produced 1959 – 1960

Lockheed Burbank, California (LO)

59-4994 / 59-5023 483-5047 / 5076

30 **Total: 0030**

All delivered to:

(West Germany) BB360 / BB389

CF-104D

As F-104D, RCAF designation, version for Canada. Original designation was CF-113.

Last 16 delivered as CF-104D Mk. II.

Reserialled as 104631 / 104668 in 1970.

produced 1961

Lockheed Burbank, California (LO)

(RCAF) 12631 / 12668 583A-5301 / 5338

38 **Total: 0038**

F-104G

As F-104C, engine upgrade, various improvements. USAF s/n all delivered to foreign users under MAP.

produced 1960 – 1962

Lockheed Burbank, California (LO)

61-2601 / 61-2623 683C-4001 / 4023

62-12214 / 62-12231 683C-4067 / 4084

63-13274 683-9001

- To Belgium, pattern airframe.

No s/n assigned. 683-2051

43

- Static test airframe.

(Italy)

MM6501 683-6501

1

- Pattern airframe.

(West Germany)

KF101 / KF150 683-2001 / 2050

- 30 operated in US with s/n:

63-13230 / 63-13259.

KF151 / KF196	683-2052 / 2097	96	Total: 0140
- 9 operated in US with s/n:			
63-13260			
63-13262 / 63-13268			
67-14887.			

RF-104G

*As F-104G, reconnaissance version.
All delivered to foreign users under MAP.
produced 1962 – 1963*

Lockheed Burbank, California (LO)			
61-2624 / 61-2633	683C-4024 / 4033		
62-12232 / 62-12261	<i>mixed</i> 683C-4034 to 4066	40	Total: 0040

TF-104G

*As F-104G, 2-seater trainer. USAF s/n
all delivered to foreign users under MAP.
produced 1962 – 1966*

Lockheed Burbank, California (LO)			
61-3025 / 61-3030	583C-5501 / 5506		
61-3031 / 61-3084	<i>mixed</i> 583D-5701 to 5755		
62-12262 / 62-12279	583C-5507 / 5524		
63-8452 / 63-8469	<i>mixed</i> 583D-5756 to 5779		
63-12681 / 63-12684	583C-5525 / 5528		
63-12685 / 63-12696	<i>mixed</i> 583D-5767 to 5785		
64-15104 / 64-15106	583D-5786 / 5788		
65-9415	583C-5529		
66-13622 / 66-13631	583F-5933 / 5942	126	
N104L (<i>civil reg.</i>)	583D-5702	1	
- To The Netherlands as D-5702. (Belgium)			
FC-04 / FC-12	583G-5101 / 5109	9	
(Italy)			
-	583H-5201 / 5212	12	
(The Netherlands)			
D-5801 / 5817	583E-5801 / 5817	17	
(West Germany)			
KE201 / KE223	583F-5943 / 5965		
KF201 / KF232	583F-5901 / 5932	55	Total: 0220

RTF-104G1 – Proposed reconn. version for Luftwaffe, cancelled.

F-104H – Proposed upgrade of F-104C, cancelled.

TF-104H – Proposed trainer version, cancelled.

F-104I – Not used.

F-104J

*As F-104G, version for Japan.
produced 1961*

Lockheed Burbank, California (LO)			
(JASDF)			
26-8501 / 26-8503	683B-3001 / 3003	3	Total: 0003

F-104K / L / M – Not used.

F-104N

*As F-104G, version for NASA as chase aircraft.
8 other F-104's also converted for NASA duties.
produced 1963*

Lockheed Burbank, California (LO)
(NASA) 811 / 813 683C-4045, 4053, 4058 3 **Total: 0003**

(Model CL-1200)

X-27 Lancer – Proposed development of F-104G, cancelled.

Total: 0790

Foreign built – Belgium:

F-104G

Licence built version of the F-104G.

produced

Societe Anonyme Belge De Constructions
Aeronautiques (SABCA), Gosselies, Belgium

63-13275 / 63-13278 9002 / 9005 4

- 4 to West Germany.

(Belgium)

FX-1 / FX-39 *mixed 9016 to 9079*

FX-27 9082

- Duplicated s/n due to loss.

FX-40 / FX-100 *mixed 9083 to 9176* 101

(West Germany)

KH106 / KH188 *mixed 9006 to 9189* 83 **Total: 0188**

Foreign built – Canada:

CF-104

Licence built version of the F-104G.

*F-104A(56-0770), converted as prototype
with RCAF s/n: 12700, later 104700.*

Original designation was CF-111.

Reserialled as 104701 / 104900 in 1970.

produced 1961 – 1963

Canadair Ltd., Cartierville,
Montreal, Quebec, Canada

(RCAF) 12701 / 12900 1001 / 1200 200

F-104G

Licence built version of the F-104G.

All delivered to foreign users under MAP.

produced 1963 – 1964

Canadair Ltd., Cartierville,
Montreal, Quebec, Canada

62-12302 / 62-12349 6001 / 6048

62-12697 / 62-12734 6049 / 6086

63-13638 / 63-13647 6087 / 6096

64-17752 / 64-17795 6097 / 6140 140 **Total: 0340**

Foreign built – Italy:

F-104G

*Licence built version of the F-104G.
Fiat Aircraft Group became Aeritalia in 1969,
then Alenia Aeronautica in 1990.*

produced

Societa Per Azioni Fiat, Turin, Italy
(Italy)

mixed MM6502 to MM6660 *mixed* 6502 to 6660 124

(The Netherlands)

mixed D-6652 to D-6700 *mixed* 6652 to 6700 25

(West Germany)

KC101 / KC115 *mixed* 6600 to 6620 15

RF-104G

Licence built version of the RF-104G.

produced

Societa Per Azioni Fiat, Turin, Italy
(West Germany)

KC116 / KC150 *mixed* 6621 to 6693 35

F-104S

*As F-104G, engine / armament upgrade.
2 Fiat F-104G converted as prototypes,
first flown in 1966.*

produced 1968 – 1979

Societa Per Azioni Fiat, Turin, Italy
(Italy)

MM6701 / MM6850 783-1001 / 1150

MM6869 / MM6881 783-1169 / 1181

MM6886, MM6887 783-1186, 1187

MM6890 783-1190

MM6907 / MM6946 783-1207 / 1246 206

(Turkey)

6851 / 6868 783-1151 / 1168

6882 / 6885 783-1182 / 1185

6888, 6889 783-1188, 1189

6891 / 6906 783-1191 / 1206 40

Total: 0445

Foreign built – Japan:

F-104J

Licence built version of the F-104G.

produced 1962 – 1967

Mitsubishi Heavy Industries Ltd.,
Nagoya, Japan

(JASDF)

26-8504 / 26-8507 683B-3004 / 3007

36-8508 / 36-8563 683B-3008 / 3063

46-8564 / 46-8658 683B-3064 / 3158

56-8659 / 56-8680 683B-3159 / 3180

76-8681 / 76-8710 683B-3181 / 3210 207

Total: 0207

Foreign built – The Netherlands:

F-104G

Licence built version of the F-104G.

produced

Fokker Aircraft Co., Amsterdam, The Netherlands
(The Netherlands)

mixed D-8013 to D-8343 *mixed* 8013 to 8343 77
(West Germany)

mixed KG101 to KG450 *mixed* 8101 to 8350 154

- 12 operated in US with s/n:

63-13229, 63-13261

63-13269 / 63-13273

63-13690, 63-13691

65-12746

65-12749 / 64-12754

67-14893.

RF-104G

Licence built version of the RF-104G.

produced

Fokker Aircraft Co., Amsterdam, The Netherlands
(The Netherlands)

mixed D-8101 to D-8119 *mixed* 8101 to 8119 18
(West Germany)

mixed KG185 to KG376 *mixed* 8085 to 8276 101 **Total: 0350**

- 4 operated in US with s/n:

67-14890 / 67-14892

67-22517.

Foreign built – West Germany:

F-104G

Licence built version of the F-104G.

Manufacturer became MBB in 1969.

produced

Messerschmitt-Bolkow GmbH,
Augsburg, West Germany
(West Germany)

KE301 / KE510 7001 / 7210 210

- 10 operated in US with s/n:

65-12745

65-12747, 65-12748

66-13524 / 66-13526

67-14885, 67-14886

67-14888, 67-14889.

Messerschmitt-Bolkow-Blohm (MBB),
Augsburg, West Germany
(West Germany)

2641 / 2654 7301 / 7314

2655 / 2690 7401 / 7436 50

Total: 0260

Total: 1790

F-104 CONVERSIONS

USAF

NF-104A	3	F-104A(56-756, 56-760, 56-762), 1963-1971, aux. rocket engine fitted, used in astronaut training.
QF-104A	24	F-104A, 1960-1972, radio-controlled target drones.
(JQF-104A)	1	QF-104A, temporary conversion for test duties.

Foreign Conversions

F / TF-104S ASA (F / TF-104S ASA-M)	153 64	F/ TF-104S, 1986, armament / avionics upgrades for Italy. 49 F-104S / 15 TF-104S, 1997-2005, avionics upgrades for Italy.
QF-104J	31	F-104J, 1987-1992, ex. JASDF radio-controlled target drones.
C.8	18	F-104G, 1965-1972, designation for Spanish F-104's. Assigned s/n: C.8-1 / C.8-18.
CE.8	3	TF-104G, 1965-1972, designation for Spanish TF-104's. Assigned s/n: CE.8-1 / CE.8-3.
RF-104G(T)	8	RF-104G, reconn. upgrade with longer nose for Taiwan.

FOREIGN MILITARY / CIVILIAN SERVICE

- *F-104 Starfighters served in military service with Belgium, Canada, Denmark, Greece, Italy, Japan, Jordan, The Netherlands, Norway, Pakistan, Spain, Taiwan, Turkey and West Germany.*
- ***F-104RB**, 1976, test pilot Darryl Greenamyre built an F-104 from spare parts with the help of American Jet Industries Inc., California, to set new speed records. May have been built from static test airframe c/n: 683-2051.*