

FLIGHT MANUAL

USAF SERIES

F-100D (I) F-100F (I)

(HIGH WIRE)

-2, -6, -11, -16, -20

(HIGH WIRE)

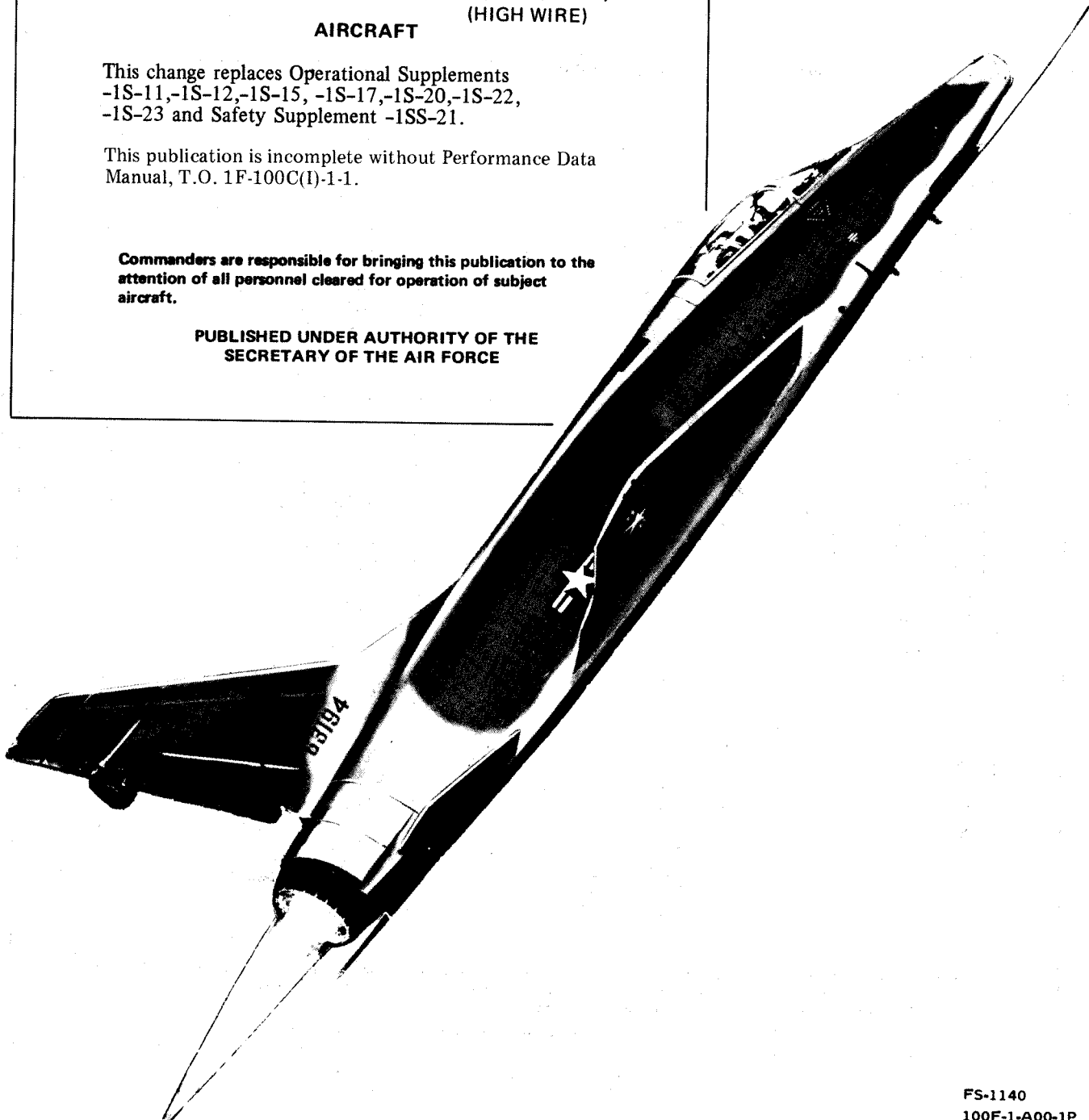
AIRCRAFT

This change replaces Operational Supplements
-1S-11, -1S-12, -1S-15, -1S-17, -1S-20, -1S-22,
-1S-23 and Safety Supplement -1SS-21.

This publication is incomplete without Performance Data
Manual, T.O. 1F-100C(I)-1-1.

Commanders are responsible for bringing this publication to the
attention of all personnel cleared for operation of subject
aircraft.

PUBLISHED UNDER AUTHORITY OF THE
SECRETARY OF THE AIR FORCE

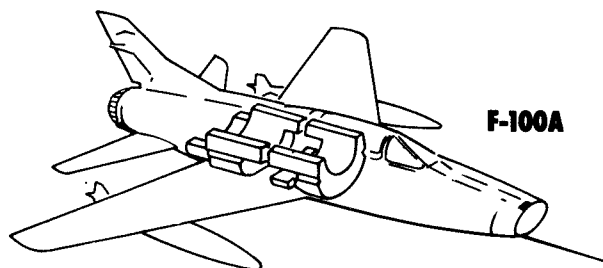


FS-1140
100F-1-A00-1P

31 JULY 1973
CHANGE 3 - 31 OCTOBER 1976

MAIN DIFFERENCES TABLE

F-100 SERIES

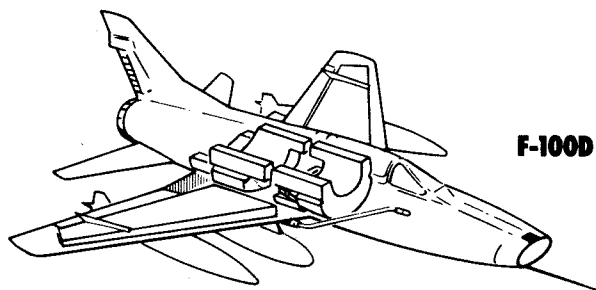
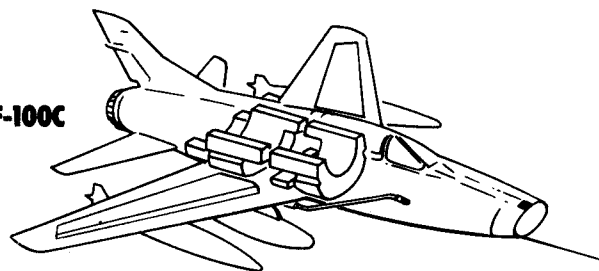


F-100A

ENGINE	J57 -21 OR -21A WITH AFTERBURNER
AC ELECTRICAL POWER SOURCE	THREE INVERTERS
ARMAMENT	FOUR GUNS AND MISSILES
STARTER	PNEUMATIC
DROP TANKS	TWO 275-GALLON
INTERNAL FUEL	FUSELAGE
REFUELING PROVISIONS	GRAVITY TANK FILLING
FLAPS	NO
OXYGEN SYSTEM	GASEOUS, WITH D-2 REGULATOR

ENGINE	J57 -21 OR -21A WITH AFTERBURNER
AC ELECTRICAL POWER SOURCE	THREE INVERTERS
ARMAMENT	FOUR GUNS AND VARIOUS COMBINATIONS OF EXTERNAL LOADS INCLUDING BOMBS, ROCKETS AND MISSILES MOUNTED ON REMOVABLE PYLONS.
STARTER	PNEUMATIC
DROP TANKS	TWO 275-GALLON AND/OR COMBINATION OF 200-GALLON (TWO 335-GALLON ON SOME AIRPLANES)
INTERNAL FUEL	FUSELAGE AND WING
REFUELING PROVISIONS	PRESSURE TYPE (SINGLE-POINT AND AIR REFUELING)
FLAPS	NO
OXYGEN SYSTEM	LIQUID, WITH D-2A REGULATOR

F-100C



F-100D

ENGINE	J57-21 OR -21A WITH AFTERBURNER
AC ELECTRICAL POWER SOURCE	ONE ENGINE-DRIVEN AC GENERATOR WITH ONE STAND-BY INVERTER
ARMAMENT	FOUR GUNS AND VARIOUS COMBINATIONS OF EXTERNAL LOADS INCLUDING BOMBS, ROCKETS, AND MISSILES MOUNTED ON FORCE EJECTION PYLONS.
STARTER	CARTRIDGE - PNEUMATIC
DROP TANKS	TWO 275-GALLON, TWO 450-GALLON OR TWO 335-GALLON AND/OR COMBINATION OF 200-GALLON.
INTERNAL FUEL	FUSELAGE AND WING
REFUELING PROVISIONS	PRESSURE-TYPE (SINGLE-POINT AND AIR REFUELING)
FLAPS	YES
OXYGEN SYSTEM	LIQUID WITH MD-1 REGULATOR

ENGINE	J57 -21 OR -21A WITH AFTERBURNER
AC ELECTRICAL POWER SOURCE	ONE ENGINE-DRIVEN AC GENERATOR WITH ONE STAND-BY INVERTER
ARMAMENT	TWO GUNS AND VARIOUS COMBINATIONS OF EXTERNAL LOADS INCLUDING BOMBS, ROCKETS, AND MISSILES MOUNTED ON FORCE EJECTION PYLONS
STARTER	CARTRIDGE - PNEUMATIC
DROP TANKS	TWO 275-GALLON TWO 450-GALLON OR TWO 335-GALLON AND/OR COMBINATION OF 200-GALLON.
INTERNAL FUEL	FUSELAGE AND WING
REFUELING PROVISIONS	PRESSURE-TYPE (SINGLE-POINT AND AIR REFUELING)
FLAPS	YES
OXYGEN SYSTEM	LIQUID WITH MD-1 REGULATOR

F-100F

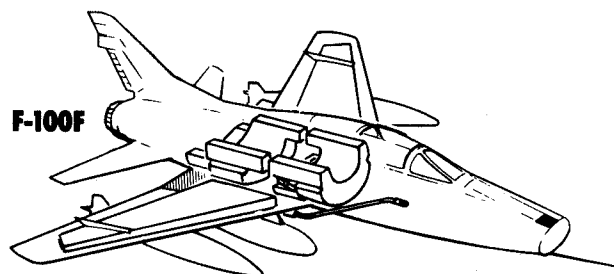
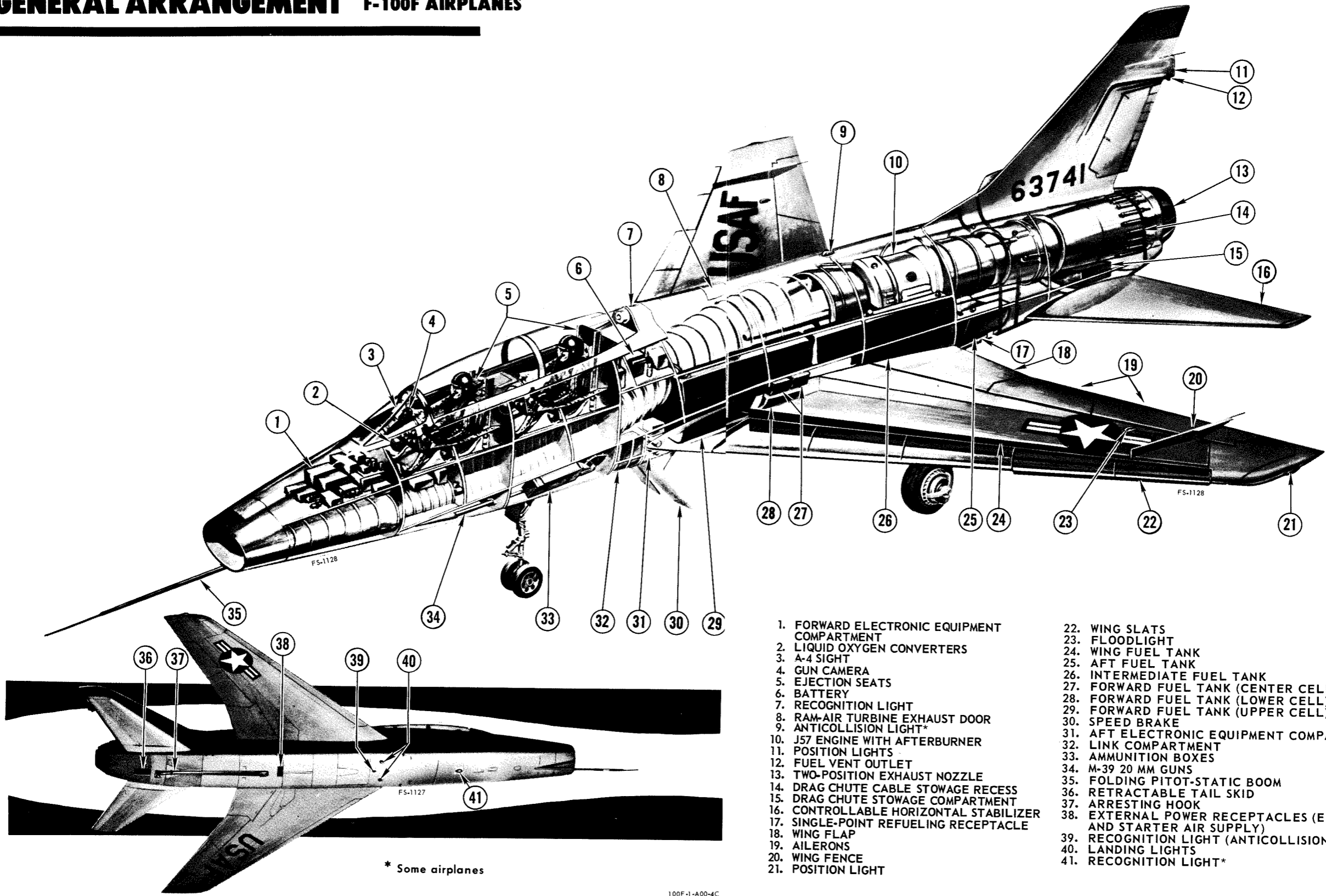


Figure 1-4

GENERAL ARRANGEMENT F-100F AIRPLANES



- | | |
|---|--|
| <ol style="list-style-type: none"> 1. FORWARD ELECTRONIC EQUIPMENT COMPARTMENT 2. LIQUID OXYGEN CONVERTERS 3. A-4 SIGHT 4. GUN CAMERA 5. EJECTION SEATS 6. BATTERY 7. RECOGNITION LIGHT 8. RAM-AIR TURBINE EXHAUST DOOR 9. ANTICOLLISION LIGHT* 10. J57 ENGINE WITH AFTERBURNER 11. POSITION LIGHTS 12. FUEL VENT OUTLET 13. TWO-POSITION EXHAUST NOZZLE 14. DRAG CHUTE CABLE STOWAGE RECESS 15. DRAG CHUTE STOWAGE COMPARTMENT 16. CONTROLLABLE HORIZONTAL STABILIZER 17. SINGLE-POINT REFUELING RECEPTACLE 18. WING FLAP 19.AILERONS 20. WING FENCE 21. POSITION LIGHT | <ol style="list-style-type: none"> 22. WING SLATS 23. FLOODLIGHT 24. WING FUEL TANK 25. AFT FUEL TANK 26. INTERMEDIATE FUEL TANK 27. FORWARD FUEL TANK (CENTER CELL) 28. FORWARD FUEL TANK (LOWER CELL) 29. FORWARD FUEL TANK (UPPER CELL) 30. SPEED BRAKE 31. AFT ELECTRONIC EQUIPMENT COMPARTMENT 32. LINK COMPARTMENT 33. AMMUNITION BOXES 34. M-39 20 MM GUNS 35. FOLDING PITOT-STATIC BOOM 36. RETRACTABLE TAIL SKID 37. ARRESTING HOOK 38. EXTERNAL POWER RECEPTACLES (ELECTRICAL AND STARTER AIR SUPPLY) 39. RECOGNITION LIGHT (ANTICOLLISION LIGHT*) 40. LANDING LIGHTS 41. RECOGNITION LIGHT* |
|---|--|

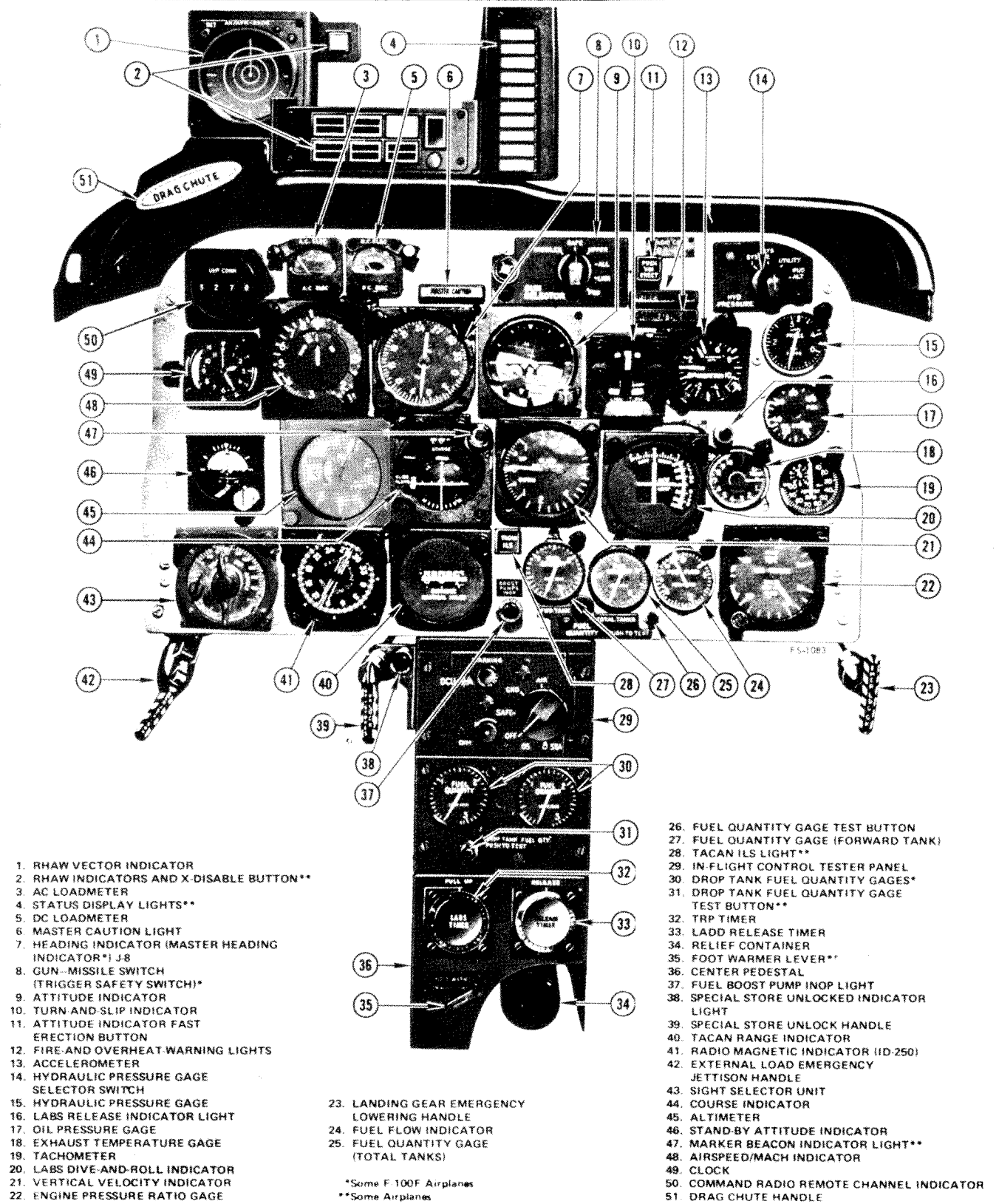
* Some airplanes

100F-1-A00-4C

Figure 1-2 (Sheet 1 of 2)

Figure 1-2 (Sheet 2 of 2)

INSTRUMENT PANEL F-100D AND FRONT COCKPIT F-100F



- 1. RHAW VECTOR INDICATOR
- 2. RHAW INDICATORS AND X-DISABLE BUTTON**
- 3. AC LOADMETER
- 4. STATUS DISPLAY LIGHTS**
- 5. DC LOADMETER
- 6. MASTER CAUTION LIGHT
- 7. HEADING INDICATOR (MASTER HEADING INDICATOR*) J-8
- 8. GUN-MISSILE SWITCH (TRIGGER SAFETY SWITCH)*
- 9. ATTITUDE INDICATOR
- 10. TURN AND SLIP INDICATOR
- 11. ATTITUDE INDICATOR FAST ERECTION BUTTON
- 12. FIRE AND OVERHEAT WARNING LIGHTS
- 13. ACCELEROMETER
- 14. HYDRAULIC PRESSURE GAGE SELECTOR SWITCH
- 15. HYDRAULIC PRESSURE GAGE
- 16. LABS RELEASE INDICATOR LIGHT
- 17. OIL PRESSURE GAGE
- 18. EXHAUST TEMPERATURE GAGE
- 19. TACHOMETER
- 20. LABS DIVE AND ROLL INDICATOR
- 21. VERTICAL VELOCITY INDICATOR
- 22. ENGINE PRESSURE RATIO GAGE

- 23. LANDING GEAR EMERGENCY LOWERING HANDLE
- 24. FUEL FLOW INDICATOR
- 25. FUEL QUANTITY GAGE (TOTAL TANKS)

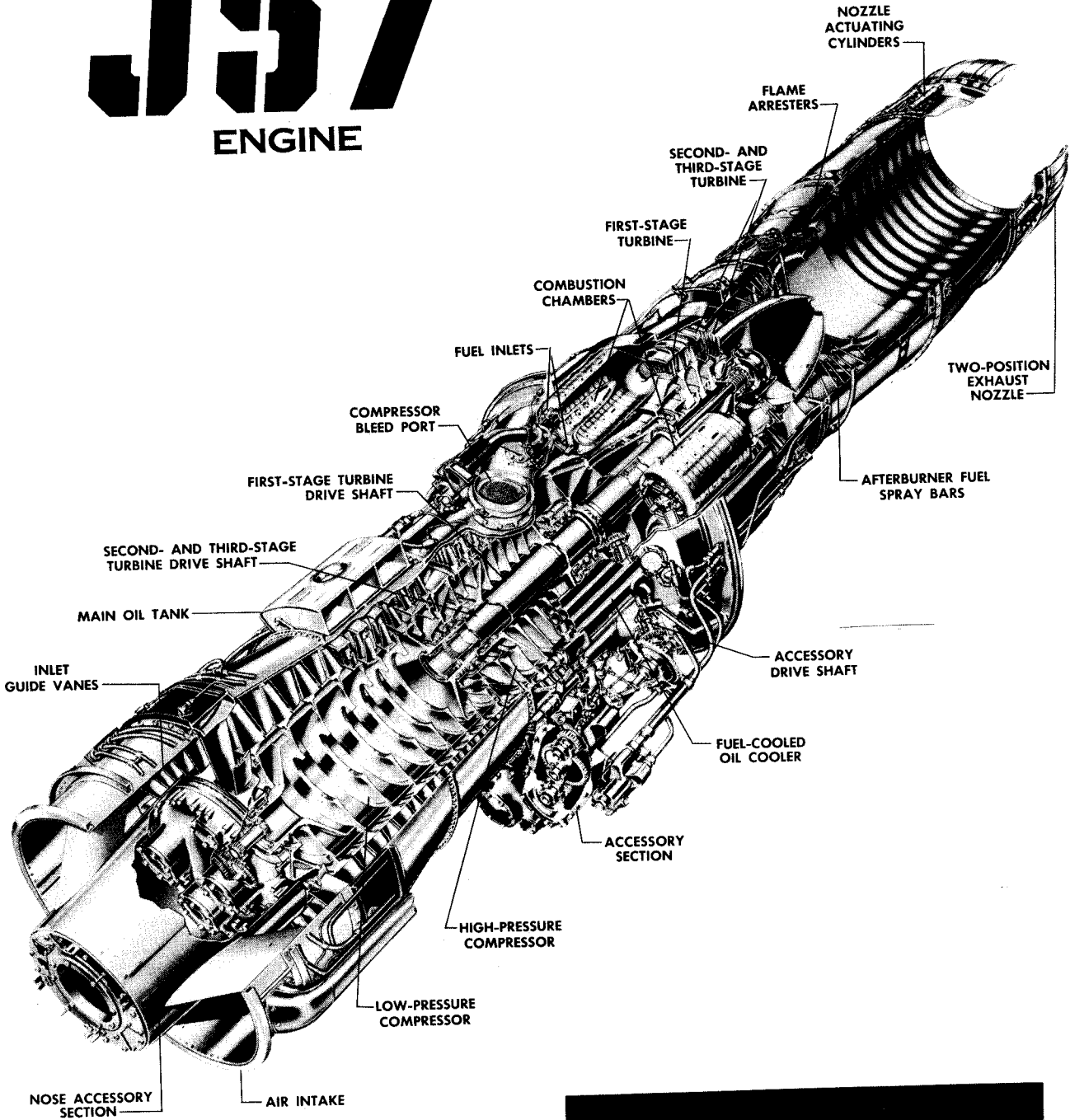
*Some F-100F Airplanes
 **Some Airplanes

- 26. FUEL QUANTITY GAGE TEST BUTTON
- 27. FUEL QUANTITY GAGE (FORWARD TANK)
- 28. TACAN ILS LIGHT**
- 29. IN-FLIGHT CONTROL TESTER PANEL
- 30. DROP TANK FUEL QUANTITY GAGES*
- 31. DROP TANK FUEL QUANTITY GAGE TEST BUTTON**
- 32. TRP TIMER
- 33. LADD RELEASE TIMER
- 34. RELIEF CONTAINER
- 35. FOOT WARMER LEVER**
- 36. CENTER PEDESTAL
- 37. FUEL BOOST PUMP INOP LIGHT
- 38. SPECIAL BEACON UNLOCKED INDICATOR LIGHT
- 39. SPECIAL STORE UNLOCK HANDLE
- 40. TACAN RANGE INDICATOR
- 41. RADIO MAGNETIC INDICATOR (ID-250)
- 42. EXTERNAL LOAD EMERGENCY JETTISON HANDLE
- 43. SIGHT SELECTOR UNIT
- 44. COURSE INDICATOR
- 45. ALTIMETER
- 46. STAND-BY ATTITUDE INDICATOR
- 47. MARKER BEACON INDICATOR LIGHT**
- 48. AIRSPEED/MACH INDICATOR
- 49. CLOCK
- 50. COMMAND RADIO REMOTE CHANNEL INDICATOR
- 51. DRAG CHUTE HANDLE

Figure 1-6

J57

ENGINE



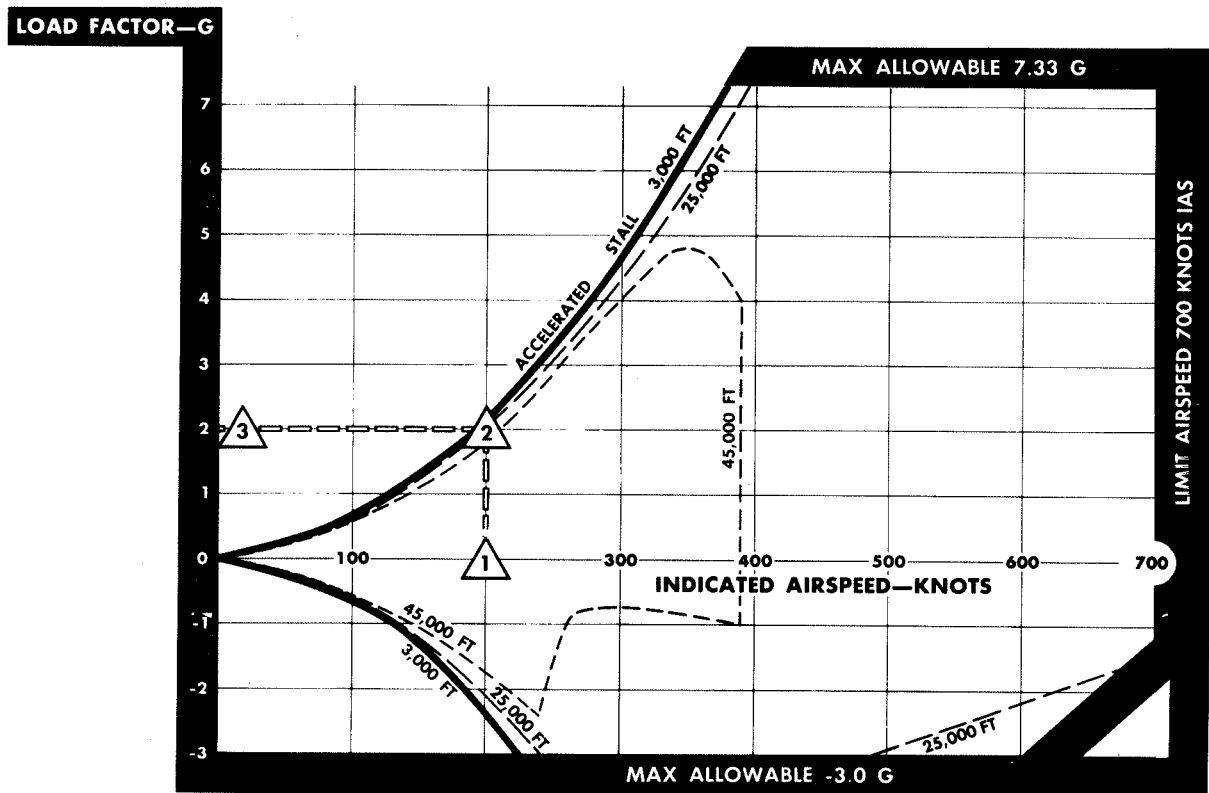
WITH AFTERBURNER

Figure 1-5

OPERATING FLIGHT

NO EXTERNAL LOAD
GROSS WEIGHT 28,100 LB
(COMBAT CONDITION)

F-100D AIRPLANES



HOW TO USE CHART:

- 1 Select your indicated airspeed: 200 knots IAS.
- 2 Trace vertically to your flight altitude: 25,000 feet.
- 3 Move horizontally to the left and find the maximum G you can pull before stalling: 2.0 G.

NOTE
Accelerated stall speeds increase with an increase in gross weight.

F-100D-1-A93-17

Figure 5-7 (Sheet 1 of 2)

IN-FLIGHT EMERGENCIES (Cont)
SEAT EJECTION WITH DART/SNUBBING SYSTEM

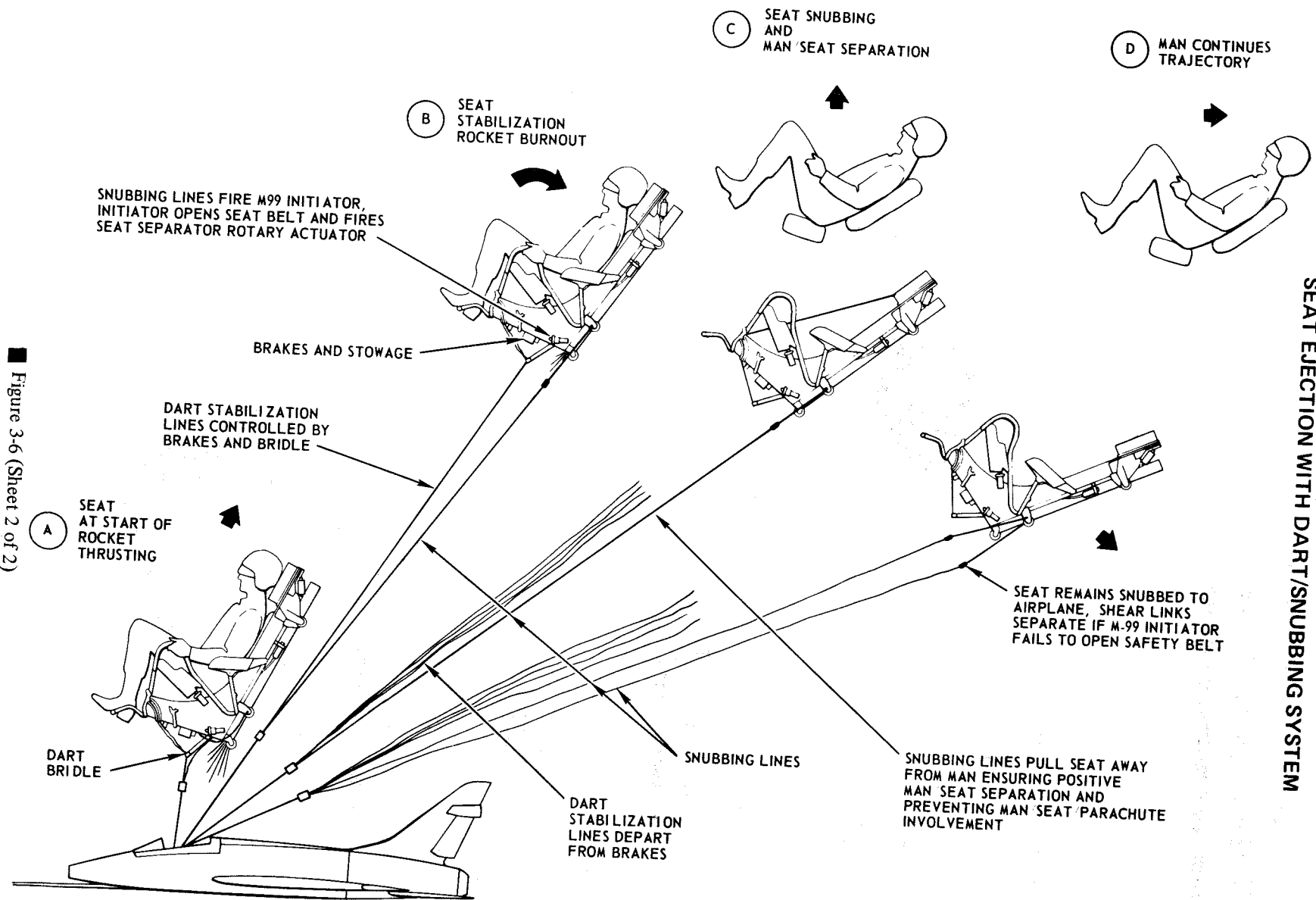


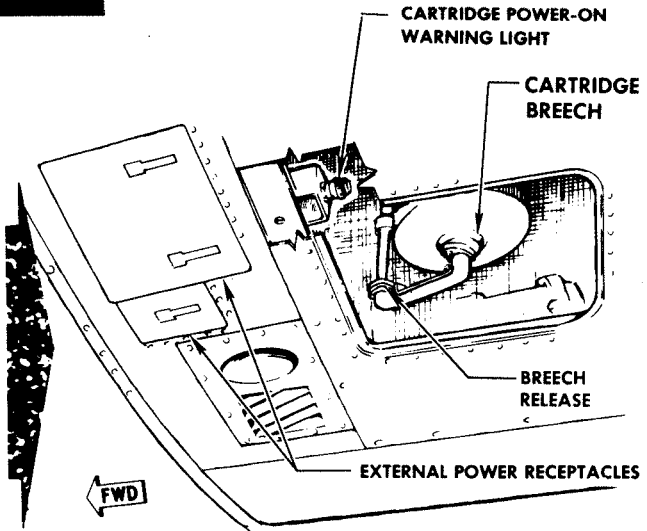
Figure 3-6 (Sheet 2 of 2)

LOADING CARTRIDGE STARTER

1. Remove access door and check cartridge power-on warning light out.
2. Remove cartridge breech from starter by squeezing breech release and rotating breech clockwise.

WARNING

- Do not remove cartridge breech from starter if a start has been made within 5 minutes, as injury could occur.
- Asbestos gloves and a plastic face shield should be worn when a cartridge that has been recently fired is being removed.

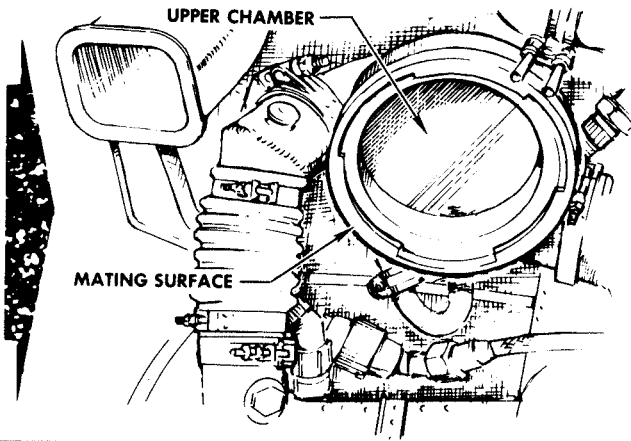


3. Clean deposits from upper cartridge chamber and around mating surface of chamber.
4. Remove cartridge from breech and clean inside of breech.

NOTE

Clean and inspect the dome of breech cap to ensure good electrical contact with grounding clip of cartridge.

5. Remove cartridge from can.



6. Remove safety clip from grounding clip. Bend grounding clip up about 30 degrees and insert into breech. Force cartridge against surface of breech cap dome and rotate about 90 degrees.
7. Test cartridge power-on warning light; then check OUT.

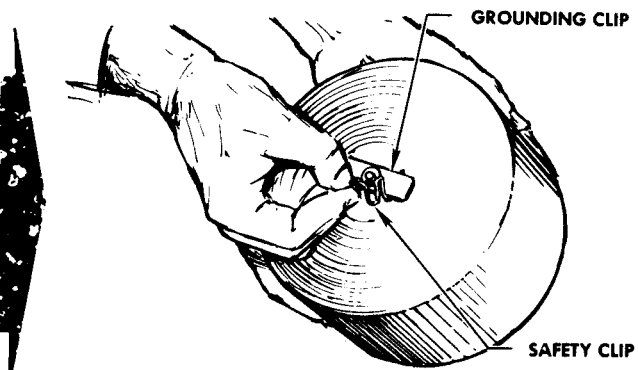
WARNING

During loading of the starter, the engine master and battery switches must be off and external electrical power disconnected.

NOTE

The starter exhaust port area must be clear of fuel, oil, and foreign objects.

8. Install breech into breech cap, engage locking threads, squeeze breech release, rotate breech counterclockwise until seated, and allow breech to seat.



9. During start, have fire guard stand by just forward of the horizontal stabilizer, about 6 feet out from the left side.

F-100D-1-A40-2A

Figure 2-8

F-100D STORE INDEX NUMBERS AIRSPEED LIMITS AND RELEASE LIMITS

NOTE

- Item 171
- Unless stated otherwise, each index number at the wing stations is for a symmetrically mounted pair of stores.
- Index number for a store at one wing station only is one-half that given for the symmetrically mounted pair of stores.
- When pylons only or pylons and TERS are carried, the index number for each pylon or pylon and TER may be considered to be zero.
- Numbers in parenthesis in the "INDEX NUMBERS", "AIRSPEED LIMITS" and "RELEASE LIMITS" columns refer to the NOTES on (Sheet 15 of 15) of this illustration.

STORE	INDEX NUMBER					AIRSPEED LIMITS NOTE	RELEASE LIMITS NOTE
	OUTBOARD STATIONS	INTERMEDIATE STATIONS	INBOARD STATIONS		CENTERLINE STATION		
			STORE ON PYLON	STORE ON TER			
A/A37U-15 Tow Target System (LH OUTBD STA)	33 23 (14)					Target stowed: 350 KIAS. Target launched or released: 475 KIAS. (1)	Pad and Launcher not recommended for release.
AIM-9B/E/J Missile (4 Missiles or 2 Missiles and 2 TDU-11/B Target Rockets)			-18			600 KIAS (2)	Any airspeed and between 0 G and 4.0 G. (11)
B37K-1 Practice Bomb Rack	4 BDU-33/() or 4 MK-106	20				600 KIAS (3)	Any airspeed and between 1.0 G and 5.0 G.
	Empty	16					
BLU-1/B Fire Bomb (Unfinned) BLU-1A/B and BLU-1B/B	34	25	-11	1 = -14 2 = -25		500 KIAS (3)	Any airspeed and between 0 G and 4.0 G. (12) (15)
BLU-1/B Fire Bomb (Finned) BLU-1A/B and BLU-1B/B	34	26	-11			500 KIAS (3)	Any airspeed and between 0 G and 4.0 G. (12)
BLU-1C/B Fire Bomb (Unfinned)	34	26	-11	1 = -15 2 = -25		500 KIAS (3)	Any airspeed and between 0 G and 4.0 G. (12) (15)
BLU-1C/B Fire Bomb (Finned)	34	26	-11			500 KIAS (3)	Any airspeed and between 0 G and 4.0 G. (12)
BLU-27/B, B/B, C/B Fire Bomb (Unfinned)	38	26	-16	1 = -18 2 = -34		500 KIAS (3)	Any airspeed and between 0 G and 4.0 G. (12)
BLU-27/B, B/B, C/B Fire Bomb (Finned)	39	27	-16			500 KIAS (3)	Any airspeed and between 0 G and 4.0 G. (12)

Figure 5-5 (Sheet 1 of 15)

F-100D STORE INDEX NUMBERS, AIRSPEED LIMITS, AND RELEASE LIMITS

STORE	INDEX NUMBER					AIRSPEED LIMITS NOTE	RELEASE LIMITS NOTE
	OUTBOARD STATIONS	INTERMEDIATE STATIONS	INBOARD STATIONS		CENTERLINE STATION		
			STORE ON PYLON	STORE ON TER			
CBU-12A/A Dispenser (SUU-7C/A Empty)	Full	32				500 KIAS (3)	Full: Any airspeed and between 0 G and 4.0 G (13)
	Empty	19					
CBU-24/B or CBU-24A/B Cluster Dispenser		36	16	-10	1 = -11 2 = -34	600 KIAS (5)	Any airspeed and between 0 G and 4.0 G.
CBU-24B/B Cluster Dispenser		37	16	-11	1 = -11 2 = -34	600 KIAS (5)	Any airspeed and between 0 G and 4.0 G (15)
CBU-28/A Bomblet Dispenser	Full	27	24	-3		500 KIAS (3)	Dispensing: 500 KIAS to .95 Mach in 1.0 G flight. Jettisoning: 500 KIAS to .85 Mach in 1.0 G flight.
	Empty	20	23	7			
CBU-29/B or CBU-29A/B Cluster Dispenser		36	16	-10	1 = -11 2 = -34	600 KIAS (5)	Any airspeed and between 0 G and 4.0 G.
CBU-29B/B Cluster Dispenser		37	16	-11	1 = -11 2 = -34	600 KIAS (5)	Any airspeed and between 0 G and 4.0 G (15)
CBU-30/A Dispenser	Full	25	24	0		500 KIAS (3)	Dispensing: 500 KIAS to .95 Mach in 1.0 G flight. Jettisoning: 500 KIAS to .85 Mach in 1.0 G flight.
	Empty	20	23	7			
CBU-34/A CBU-34A/A Mine Dispenser	Full	39	27	-15		500 KIAS (3)	Dispensing: Any airspeed and 0° to 45° dive. Jettisoning: Any airspeed level 1.0 G flight.
	Empty	21	23	4			
CBU-37/A Mine Dispenser	Full	27	24	-3		500 KIAS (3)	Dispensing: 500 KIAS to .95 Mach in 1.0 G flight. Jettisoning: 500 KIAS to .85 Mach in 1.0 G flight.
	Empty	20	23	7			
CBU-42/A Mine Dispenser	Full	39	27	-15		500 KIAS (3)	Dispensing: Any airspeed and 0° to 45° dive. Jettisoning: Any airspeed level 1.0 G flight.
	Empty	21	23	4			
CBU-46/A Bomb Dispenser	Full	39				500 KIAS (3)	Dispensing: 500 KIAS and 1.0 G in 0° to 45° dive.
	Empty	19					
CBU-49/B and CBU-49A/B Cluster Dispenser		36	16	-10	1 = -12 2 = -34	600 KIAS (5)	Dispensing: Any airspeed and between 0 G and 4.0 G. (15)
CBU-49B/B Cluster Dispenser		37	16	-10	1 = -12 2 = -34	600 KIAS (5)	Dispensing: Any airspeed and between 0 G and 4.0 G.

Figure 5-5 (Sheet 3 of 15)

F-100D STORE INDEX NUMBERS, AIRSPEED LIMITS, AND RELEASE LIMITS

STORE	INDEX NUMBER					AIRSPEED LIMITS NOTE	RELEASE LIMITS NOTE
	OUTBOARD STATIONS	INTERMEDIATE STATIONS	INBOARD STATIONS		CENTERLINE STATION		
			STORE ON PYLON	STORE ON TER			
M117(R) Bomb	39	17	-10	1 = -12 2 = -33		600 KIAS (5)	Any airspeed and between 0 G and 4.0 G (12) (15)
M117(D) Bomb	39	17	-10	1 = -12 2 = -33		500 KIAS (5)	Any airspeed and between 0 G and 4.0 G (12) (15)
M117GP Bomb with 36 inch M1A1 Fuse Extender	38	17	-10			600 KIAS (5)	Any airspeed and between 0 G and 4.0 G (12)
M129E1 Leaflet Bomb	20	22	6			600 KIAS (5)	Any airspeed and between 0 G and 4.0 G (12)
MC-1 Chemical Bomb	32	25	-5	1 = -8 2 = -23		600 KIAS (5)	Any airspeed and between 0 G and 4.0 G. (12) (15)
MK-12 Mod O Leaflet Tank	Full	30	20	-6		500 KIAS	Any airspeed and between 1.0 G and 4.0 G.
	Empty	24	18	1			
MK-36 Mod O Destructor	29	14	-12	1 = -15 2 = -27 3 = -35		600 KIAS (5)	500 KIAS and between 0 G and 4.0 G (12) (15) (16)
MK-81 GP Bomb	21	13	-1	1 = -5 2 = -9 3 = -8		600 KIAS (5)	500 KIAS and between 0 G and 4.0 G (12) (15)
MK-82 GP Bomb	30	14	-10	1 = -14 2 = -25 3 = -31		600 KIAS (5)	500 KIAS and between 0 G and 4.0 G (12) (15)

Figure 5-5 (Sheet 5 of 15)

F-100D STORE INDEX NUMBERS, AIRSPEED LIMITS, AND RELEASE LIMITS

STORE	INDEX NUMBER					AIRSPEED LIMITS NOTE	RELEASE LIMITS NOTE
	OUTBOARD STATIONS	INTERMEDIATE STATIONS	INBOARD STATIONS		CENTERLINE STATION		
			STORE ON PYLON	STORE ON TER			
SUU-25A/A Flare Dispenser	Full	25				450 KIAS or Mach .90	Any airspeed between 200 KIAS and Mach .85 in 1.0 G flight.
	Empty	18					
SUU-25B/A Flare Dispenser	Full	28				500 KIAS or Mach .95	Any airspeed between 200 KIAS and Mach .85 in 1.0 G flight.
	Empty	19					
SUU-25C/A, E/A Flare Dispenser	Full	28				500 KIAS or Mach .95	Any airspeed and between 250 KIAS and 375 KIAS in 1.0 G flight.
	Empty	19					

*(5) Do not exceed Mach .90 below 10,000 feet, Mach .95 between 10,000 and 25,000 feet, or Mach 1.0 above 25,000 feet.

** (15) Minimum ripple release rate is 0.060 seconds, for munitions carried on TER's.

Figure 5-5 (Sheet 7 of 15)

F-100F STORE INDEX NUMBERS, AIRSPEED LIMITS, AND RELEASE LIMITS

NOTE

- Unless stated otherwise, each index number at the wing stations is for a symmetrically mounted pair of stores.
- Index number for a store at one wing station only is one-half that given for the symmetrically mounted pair of stores.
 - When pylons only are carried, the index number for each pylon may be considered to be zero.
 - Numbers in parenthesis in the "AIRSPEED LIMITS" and "RELEASE LIMITS" columns refer to the NOTES on Sheet 14 of this illustration.
 - Stores followed by - Item 174.

STORE	INDEX NUMBER				AIRSPEED LIMITS	RELEASE LIMITS NOTE Any airspeed limit which is more restrictive than those shown below shall prevail for normal store release.
	OUTBOARD STATIONS	INTERMEDIATE STATIONS	INBOARD STATIONS	CENTERLINE STATION		
A/A37U-15 Tow Target System (LH OUTBD STA)	30				Target stowed: 350 KIAS. Target launched or released: 475 KIAS. (1)	Pod and Launcher not recommended for release.
AIM-9B/E/J Missile (4 Missiles or 2 Missiles and 2 TDU-11/B Target Rockets)			-17		600 KIAS (2)	Any airspeed and between 0 G and 4.0 G. (11)
B37K-1 Practice Bomb Rack	4 BDU-33/() or 4 MK-106	19			600 KIAS (3)	Any airspeed and between 1.0 G and 5.0 G.
	Empty	16				
BLU-1/B Fire Bomb (Unfinned) BLU-1A/B and BLU-1 B/B	33	27	-9		500 KIAS (3)	Any airspeed and between 0 G and 4.0 G. (12)
BLU-1/B Fire Bomb (Finned) BLU-1A/B and BLU-1 B/B	34	28	-9		500 KIAS (3)	Any airspeed and between 0 G and 4.0 G. (12)
BLU-1C/B Fire Bomb (Unfinned)	33	27	-7		500 KIAS (3)	Any airspeed and between 0 G and 4.0 G. (12)
BLU-1 C/B Fire Bomb (Finned)	34	28	-9		500 KIAS (3)	Any airspeed and between 0 G and 4.0 G. (12)
BLU-27/B, B/B, C/B Fire Bomb (Unfinned)	37	28	-14		500 KIAS (3)	Any airspeed and between 0 G and 4.0 G. (12)
BLU-27/B, B/B, C/B Fire Bomb (Finned)	38	29	-14		500 KIAS (3)	Any airspeed and between 0 G and 4.0 G. (12)
BLU-32A/B, B/B, C/B Fire Bomb (Unfinned)	31	16	-9		500 KIAS (3)	Any airspeed and between 0 G and 4.0 G. (12)
BLU-32A/B, B/B, C/B Fire Bomb (Finned)	31	17	-9		500 KIAS (3)	Any airspeed and between 0 G and 4.0 G. (12)

Figure 5-5 (Sheet 9 of 15)