



Description

The F-117A is a wedge-shaped, Precision Attack Bomber has stealth features that make it almost undetectable:

(1) a flat angular shape creates a small radar cross-section, (2) radar-absorbent materials, (3) engine inlets hidden behind radar-absorbent screens, (4) exhaust mixed with cool air to reduce infrared signature, (5) all door edges are serrated to scatter radar waves.

Wars and other Military Operations

F-117s were used in at least the following wars and military operations: Panama (1989), Iraq (1991, 1991-1996, 1992-present), Iraq (1993, 1996), Yugoslavia (1999), Afghanistan (2001-present) and Iraq (2003). (See page 31.)



Description

Light Armoured Vehicles (LAVs) are 4, 6, 8 or 10-wheel drive, combat vehicles that quickly transport infantry troops to battle in urban environments and open areas. There are several versions, including the LAV III and LAV-25. (See page 39 for more on these Canadian-built weapon systems.)

Weapons

LAV III's and -25s have M242 25 mm chain guns and M240 7.62 mm machine guns. LAV-ADs have Stinger missiles.

Wars and other Military Operations

LAV III and LAV 25s are used in the war in Iraq (2003).

Prime Contractor CPP Investment ✓

General Motors Cda, Diesel Div. (See pp. 6-7)
(now General Dynamics)

Canadian Parts and Services

The following is a partial list of Canadian companies and the parts and/or services they provided for the LAV:

Active Gear Company of Canada Ltd: RDTE/Tank - Automotive-Basic Research

Canadian Commercial Corp. (companies undisclosed):

- Guns, 75mm through 125mm

Weapons

F-117 "deliver" the following bombs and missiles:

AIM-9	AGM-158	GBU-12	MK-84
AGM-65	BLU-109	GBU-27	WCMD
AGM-88	GBU-10	MK-61	

(For details, see "Bombs, Guns and Missiles," pp. 32-37.)

Canadian War Shows

F-117s have "performed" for audiences at Canadian "air shows," including the following:

Abbotsford (BC), Hamilton (ON), London (ON), Ottawa (ON), Sarnia (ON), Toronto (ON) and Winnipeg (MB).

Prime Contractor CPP Investment ✓

Lockheed Aeronautical Systems (USA) (See pp. 6-7)

Canadian Parts and Services

The following is a partial list of Canadian companies and the parts and/or services they provided for the :

Calian Technology Ltd: Document management system (for the F-117A).

DY 4: electronic systems

Hypernetics: electromagnetic indicators, flags, shutters and annunciators

- Optical Sighting and Ranging Equipment
- Logistics Support Services
- RDTE/Tank -Automotive-Basic Research
- Logistics Support Services

Elcan Optical Technologies (division of **Raytheon**): production, installation, and logistics support, Improved Thermal Sight System (for the LAV 25)

Fakespace Systems Inc: projected display systems for Virtual Environment Technologies Center to reduce design review time (for the LAV III)

General Dynamics (formerly **Computing Devices Canada**): prime contractor/manufacturer. Turret fire control electronics, turret & chassis controls (for LAV III)

General Kinetics Engineering Corp.: Hydropneumatic suspension (for the LAV III)

General Motors of Canada Ltd: (1) Guns, over 300mm, (2) Cable, Cord & Wire Assemblies: Communication Equip., (3) Power & Hand Pumps, (4) Engine Cooling System Components, (5) Vehicular Furniture & Accessories, (6) Vehicular Brake, Steering, Axle, Wheel, & Track Components, (7) Vehicular Power Transmission Components, (8) Misc. Power Transmission Equipment, and (9) Vehicular Cab, Body & Frame Structural parts

Government of Canada - National Research Council: joined with Fakespace Systems Inc., SGI Canada, and the University of Western Ontario to build a Virtual Environment Technologies Center to reduce design review time (for the LAV III)

Litton Systems Canada: turret electronics (for LAV 25)

Northrop Grumman Systems Canada: turret and chassis controls (for the LAV III)

Oerlikon Aerospace: Remote Weapons Station, a single weapon mount that accommodates a 12.7mm heavy machine gun, a 40mm automatic grenade launcher or a 7.62mm general-purpose machine gun (for the LAV III)

Thales Systems Canada: Thermal imaging systems (for the LAV III)