



National  
Defence

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nationale

C-30-108-000/MA-000

DATA SUMMARY

**TRUCK, UTILITY, LIGHT, 4 X 4, MILITARY DESIGN, ILTIS CANADIAN**

**NSN 2320-21-895-3768, ECC 121501**

(BILINGUAL)

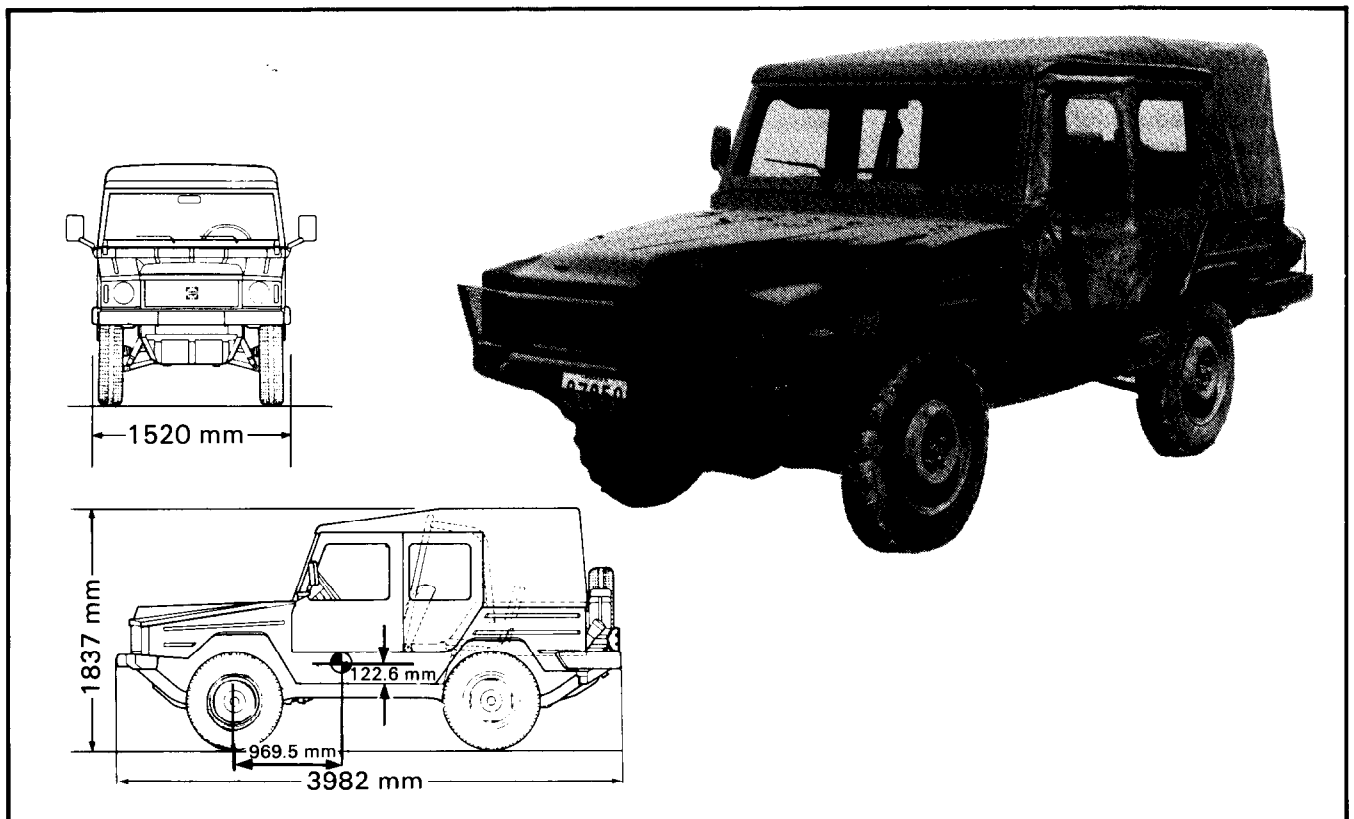
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General View of Equipment

**INTRODUCTION**

Manufacturer ..... Bombardier Inc.  
 Model ..... Iltis Canadian  
 Year ..... 1984-85-86  
 Quantity Purchased ..... 2500  
 Contract Demand ..... 3613030  
 Equipment Configuration Code ..... 121501  
 Equipment Maintenance Code ..... B85

**TECHNICAL SPECIFICATIONS**

**WEIGHT DISTRIBUTION**

Front axle ..... 720 kg  
 Rear axle ..... 715 kg  
 Total ..... 1435 kg

**WEIGHT RATINGS**

Nominal payload (including passengers and equipment) ..... 500 kg  
 Permissible front axle weight (GAWR-front) ..... 1000 kg  
 Permissible rear axle weight (GAWR-rear) ..... 1250 kg  
 Permissible total vehicle weight (GVWR) ..... 2050 kg  
 Permissible total unbraked trailer weight ..... 750 kg

**DIMENSIONS**

Length (overall) ..... 3982 mm  
 Width (overall — w/o mirrors) ..... 1520 mm  
 Height (unladen) ..... 1837 mm  
 Height (reducible) ..... 1370 mm  
 Wheelbase ..... 2017 mm  
 Track width — front ..... 1230 mm  
                     — rear ..... 1260 mm

**PERFORMANCE SPECIFICATIONS**

Turning radius (wall to wall) ..... 5.5 m  
 Angle of approach ..... 39°  
 Angle of departure ..... 31°  
 Ramp breakover angle ..... 44°  
 Ground clearance ..... 250 mm  
 Forging depth ..... 600 mm  
 Maximum speed ..... 130 km/h  
 Cruising range ..... 500 km  
 Fuel consumption (average) ..... 16.4 L/100 km  
 Gradeability (maximum — with full highway payload) ..... 60 percent

**COMPONENT SPECIFICATIONS**

**ENGINE**

Manufacturer ..... Volkswagen  
 Type ..... 4 cylinder, liquid cooled  
 Model ..... VW 049 YX

Displacement .....	1.7 L
Bore .....	79.5 mm
Stroke .....	86.4 mm
Compression ratio .....	8.2
Firing Order .....	1-3-4-2
Fuel .....	Gasoline RON 85 min.
Power .....	55 kW @ 5,000 rpm
Torque .....	135 N.m @ 2,800 rpm
Idle speed .....	950 ± 50 rpm
Governed speed .....	6 350 ± 190 rpm
Air cleaner — make and model .....	FARR MC164213
Oil Filter — make and model .....	FRAM PH-2870-A
Crankcase capacity — without filter .....	4.0 L
— with filter .....	4.5 L
Clutch — make .....	VW
— type .....	Dry single plate
Cooling system — capacity .....	7.5 L
— thermostat rating .....	85°C - 105°C
— fan quantity and type .....	2 electrical

### TRANSMISSION

Make .....	Volkswagen
Model .....	VW 005
Type .....	5 speed manual with integrated differential
Lubricant capacity .....	3.6 L
Ratios (transmission) .....	R 7.318/3.909/2.278/1.458/ 1.086/XC 7.603
Ratio (differential) .....	5.286
Differential operation .....	Manual disengagement

### REAR DIFFERENTIAL

Make .....	Volkswagen
Model .....	VW 005.B
Type .....	Hypoid
Lubricant capacity .....	1.6 L
Ratio .....	5.286
Operation .....	Manual lock

### SUSPENSION

Springs — make .....	Luhn
— type .....	Transverse parabolic
— number of leaves .....	4
— rate .....	79 N/mm
Shock absorbers — make .....	Boge GMBH
— type .....	Double acting telescopic

### BRAKES

Service brakes — make .....	ATE
— type .....	Drum
— actuation .....	Hydraulic with vacuum power unit
Parking brakes — make .....	Quadco
— type .....	Mechanical, acting on rear wheels

**WHEELS**

Rims — make ..... Sudrad  
 — type ..... One piece steel  
 — size ..... 5.50 F 16

Tires — make ..... Michelin  
 — size ..... 6.50 R 16  
 — ply rating ..... 10  
 — tread ..... All terrain directional  
 — inflation pressure — front ..... 230 kPa  
   — rear ..... 300 kPa

**FUEL SYSTEM**

Fuel tank — capacity ..... 82 L  
   — special feature ..... Explosion suppressed

Fuel pump type ..... Electrical  
 Fuel filter type ..... In-line

**ELECTRICAL SYSTEM**

Batteries — make ..... Varta  
   — model ..... 330069  
   — quantity ..... 2  
   — BCI classification ..... 41  
   — reserve capacity ..... 75 min  
   — cold cranking capacity at -17.8°C ..... 450 A  
   — nominal voltage ..... 2 × 12 V = 24 V

Alternator — make ..... Leece Neville  
   — model ..... 7518 JA  
   — output voltage ..... 28 V  
   — output current ..... 60 A

Starter — make ..... Bosch  
   — model ..... 0-001-316-001

**STEERING**

Make ..... VW  
 Type ..... Rack and pinion  
 Ratio ..... 19.44

**FRAME**

Type ..... Ladder  
 Number of cross members ..... 4

**PINTLE HOOK**

Make ..... Holland Hitch  
 Model ..... PHT-60-AOL-8  
 Height above ground (unladen) ..... 508 mm

**SEAT BELTS**

Make .....	Dahl
Quantity — front .....	2 lap and shoulder
— rear .....	2 lap

**APPLICABLE PUBLICATIONS**

C-30-108-000/DU-000	Lubrication Order
C-30-108-000/MB-000	Operator's Manual
C-30-108-000/MN-000	Maintenance Manual
C-30-108-000/MX-001	Parts Manual
C-30-108-000/NP-000	Permissive Repair Schedule and Repair Times