

**ALL TERRAIN VEHICLE, POLARIS, 4X4, SPORTSMAN HO
NSN 2340-66-147-6671**

DATA SUMMARY

This instruction is authorised for use by command of the Chief of Army. It provides direction, mandatory controls and procedures for the operation, maintenance and support of equipment. Personnel are to carry out any action required by this instruction in accordance with EMEI General A 001.



Figure 1 All Terrain Vehicle (ATV), Polaris, 4x4, Sportsman HO

General

1. This EMEI lists basic data for the All Terrain Vehicle (ATV), Polaris 4x4 Sportsman HO, as shown in Figure 1.
2. **Role.** The roles of the ATV are as follows:
 - a. **Airmobile/Maritime Operations.** ATVs enable unit operators to rapidly deploy key weapon systems and equipment when initially entering an air/maritime Point of Entry (POE). ATVs allow heavy weapons to be quickly positioned on key terrain surrounding the POE to protect disembarking personnel and aircraft or landing vessels.
 - b. **Logistic Tasks.** The ATVs are light scale vehicles able to conduct operations beyond the range of conventional logistic structures. The ATVs afford a greater ability to move heavy or large quantities of equipment around an Area of Operation (AO). They assist in sustaining F Echelon sub-units through faster replenishment of high use resources, medical evacuation of personnel and employment during caching of stores.
 - c. **Personnel Deployment.** ATVs may be used in the deployment of personnel throughout an AO. Specialists, such as snipers, anti-armour, mortars and heavy weapons teams may be facilitated by the vehicles to deploy over greater ranges and higher than normal speed, both cross-country and on established roadways.
3. **Description.** The Polaris 4x4 Sportsman ATV is equipped with a 499 cc petrol engine with selectable two or four wheel drive. It is a single operator, automatic transmission, all terrain vehicle that is also equipped with front and rear carry racks.

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Detail

4. Engine:

- a. Displacement 499 cc
- b. Type four valve, four stroke with counter balance
- c. Lubrication dry sump
- d. Oil Capacity 1.89 L
- e. Carburation 40 mm – CV Mikuni
- f. Starting System electric with recoil (pull cord) backup
- g. Alternator 20 A

5. Cooling:

- a. Cooling liquid cooled
- b. Capacity 2.13 L

6. Drive Train:

- a. Drive Shaft four-wheel independent shaft
- b. Transmission automatic PVT (Polaris Variable Transmission) with EBS (Engine Braking System)
- c. Gear Change E-Z shift high/low and reverse
- d. Front Wheel Drive thumb-switch engine-on-demand true four-wheel shaft
- e. Rear Wheel Drive shaft

7. Suspension:

- a. Front:
 - (1) Type MacPherson strut
 - (2) Travel 170 mm
- b. Rear:
 - (1) Type progressive rate fully independent with anti-roll bar
 - (2) Travel 241 mm
 - (3) Shock Absorbers 50 mm twin tube

8. Brakes:

- a. Front single-lever hydraulic disc
- b. Rear rear foot brake
- c. Rear Callipers hydraulic, opposed piston
- d. Rear Disc fixed disc
- e. Park hydraulic lock, all wheels

9. Tyres:

- a. Front:
 - (1) Type 25 x 8-12
 - (2) Pressure 36 kPa (5.22 psi)
- b. Rear:
 - (1) Type 25 x 11-10
 - (2) Pressure 36 kPa (5.22 psi)

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10. Dimensions/Weight:

- a. Wheel Base 1283 mm
- b. Turning Radius (Approx) 1650 mm
- c. Length 2159 mm
- d. Width 1168 mm
- e. Height 1194 mm
- f. Dry Weight 340.2 kg

11. Capacities:

- a. Front Rack 31 kg
- b. Rear Rack 61 kg
- c. Hitch Towing 555.6 kg
- d. Hitch Tongue 15.8 kg

12. Electrical:

- a. System Voltage 12 V DC, negative earth
- b. Brake Light 21 W
- c. Headlight:
 - (1) Handlebar one single beam high 60 W quartz halogen
 - (2) Grill two single beam low 27 W quartz halogen
- d. DC Outlet 12 V front receptacle/rear plug-in accessory

13. Manufacturer's Details:

- a. Manufacturer:
 - Polaris Industries
 - 2/100 Highway 55
 - Medina
 - MINNEAPOLIS, USA
 - <http://www.polarisindustries.com>
- b. Australian Distributor:
 - Polaris Sales Australia P/L
 - PO Box 1186
 - Ballarat Mail Centre
 - VICTORIA 3354
 - <http://www.polarisindustries.com.au>

14. Point of Contact:

National Fleet Manager Light B Vehicles
LV SPO, DMO
Victoria Barracks
St Kilda Rd
SOUTHBANK VIC 3006

15. Associated Information:

- a. Defence Road Transport Instructions (DRTI) Chapter 5.8
- b. SIGC 2340-0006
- c. NSN 2340-66-147-6671
- d. RPS N/A

- e. SCES (Special Tools)..... 10737
- f. Equipment Code..... BSB
- g. Other EMEI:
 - (1) Authority for Use Vehicle B 076
 - (2) Workshop Manual..... Vehicle B 076-1
- h. ILSI..... ALI MM 10-37

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END

Distribution List: **VEH B 02.0 – Code 1** (Maint Level)
(Sponsor: LV SPO, Lt B Vehicles)
(Authority: TRAMM)