



MOTORCYCLE, 250cc CAN-AM

PURPOSE AND PLANNING INFORMATION

BY COMMAND OF THE DEFENCE COUNCIL



Ministry of Defence

**PUBLICATIONS AUTHORITY
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(ORDNANCE)
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AMENDMENT RECORD

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PREFACE

SPONSOR **GS(OR)3**
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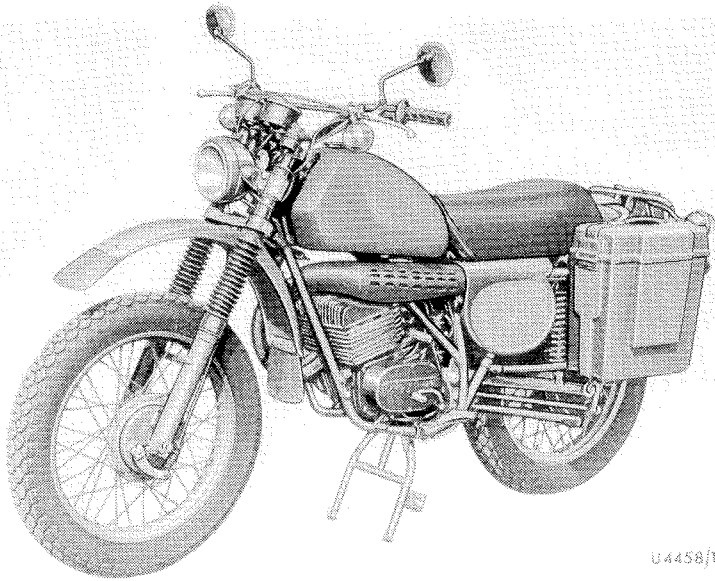
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The subject of this publication may be affected by Defence Council Instructions or 'General Orders and Modifications' leaflets. When an instruction or leaflet contradicts any portion of this publication, the Instruction or Leaflet is to be taken as the overriding authority. Amendments may be issued to correct the publication, but it will not always be possible to promulgate the amendments concurrently with the Instruction or Leaflet.

For periods of Servicing and Lubricants to be used, reference must be made to the Army Servicing Schedule or RAF Lubrication and Servicing Schedule.

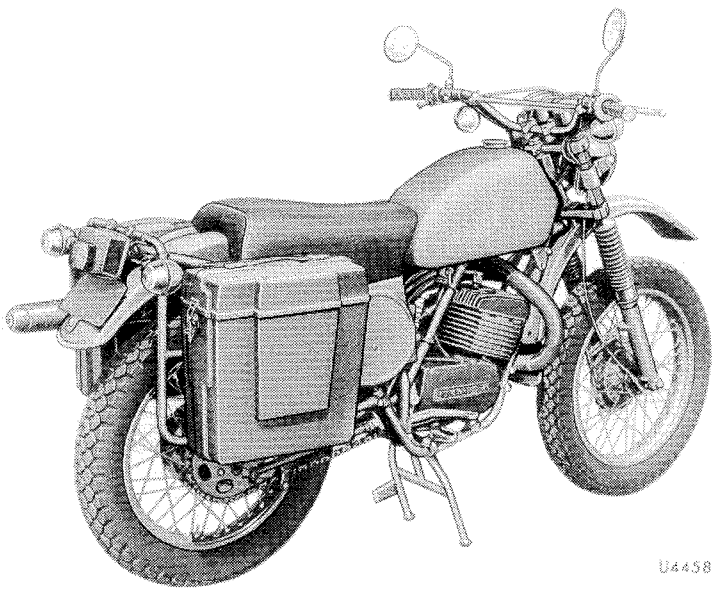
ASSOCIATED PUBLICATIONS AND REFERENCES

Category 2	-	Operating Information	2340-K-201-201
Category 3	-	Technical Description	2340-K-201-302
Category 4 } Category 5 }	-	This information included in Category 3	
Category 6	-	Maintenance Schedule	2340-K-201-601
Category 7	-	Parts Catalogue and Related Information	2340-K-201-701
Category 8			
8.1	Modification Instructions		2340-K-201-811
8.2	General Instructions		2340-K-201-821
Complete Equipment Schedule			CES No. 31289
Test and Measurement	(Chapter 60 (Chapter 102 (Chapter 150	EMER's A 028	
Preservation and Packaging		WKSP. N.111	
Maintenance of lead acid batteries		Power J330	
			AP No.
DATA BOOK FOR RAF VEHICLES			2782E
MECHANICAL TRANS MAINT REGS FOR RAF			3260
GENERAL ORDERS AND MODS			4545 Series
RAF ENGINEERING - MECH TRANS			1464E
AIR DIAGRAM (Daily use schedule)			8286/A39
LUBRICATION AND SERVICING SCHEDULE			5399



U4458/1

Fig 1 Three-quarter front view



U4458/2

Fig 2 Three-quarter rear view

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CHAPTER I

SOURCE DATA

EQUIPMENT IDENTITY

1. Motorcycle 250cc, CAN-AM
AVC No. 1010-0746 NSN 2340-99-893-4940
(Left Hand Dipping Headlamp)

Motorcycle, RH dip H/Light, 250cc, CAN-AM
AVC No. 1010-5746 NSN 2340-99-893-4953
(Right Hand Dipping Headlamp)

Motorcycle, (SAS), 250cc, CAN-AM
AVC No. 1015-0746 NSN 2340-99-893-4968
(Left Hand Dipping Headlamp)

- 1.1 Manufacturing Agent - NVT Motorcycles Ltd
(Manufacturer - BOMBARDIER LTD - QUEBEC)

FVE 22A/88 1.2 Contract No: FVE 22A/36 *AMDT NO 1.*

ROLE

2. For economic means of transportation for liaison, reconnaissance and courier duties.

DESCRIPTION

3. The motorcycle is based on a standard commercial pattern vehicle with service options. The high compression 247cc single cylinder, 2 cycle, air cooled engine has a direct oil injection lubrication system and is capable of using 91 Octane/Military fuels. The engine and gearbox is of unit construction having a 5 speed foot operated gearbox.

4. The suspension consists of hydraulic telescopic front forks and swinging arm with hydraulic damping rear suspension.
5. The lighting system comprises, instrument panel lights, headlamp with main/dip beams and pilot light, stop light and flashing indicators. An isolation switch is provided to isolate, for tactical purposes, lights, turn indicators, warning lights and horn.
6. A facility is provided to enable the fitting of a radio telephone.
7. Twin panniers are fitted.
8. Headlamps dip to left or right hand as necessary to conform to existing Traffic Regulations.
9. The motorcycle is painted with infra red reflective type paint.

CHAPTER 2

PERFORMANCE DATA

PHYSICAL DATA

1. Dimensions

1.1	Length overall	2.23 m (7 ft 4 inches)
1.2	Height overall	1.12 m (3 ft 8¼ inches)
1.3	Width overall	0.86 m (2 ft 10 inches)
1.4	Seat height	1.40 m (4 ft 7 inches)
1.	Ground clearance	0.23 m (9 inches)

2. Capacities

2.1	Fuel tank	15.9 litres (3½ gals)
2.2	Oil tank	2.16 litres (1.9 quarts)
2.3	Transmission	1.14 litres (1 quart)
2.4	Fork (each leg)	200 ml (7 fl. ozs)

3. Engine

3.1 Forward inclined, rotary valve, single cylinder, air cooled, displacement 247 cm³ (15.09 cu ins), compression ratio 10 : 1
Lubrication - oil injected, variable volume;
Starting - kick start, left side.

4. Clutch

4.1 Multi plate, 5 discs, oil bath

5. Gearbox

5.1 Five speed, constant mesh foot operated.
Neutral - between 1st and 2nd gear

6. Suspension

6.1 Front: Teledraulic 0.17 m (6½ inches) travel.
6.2 Rear: Girling type shock absorbers.

7. Brakes

- 7.1 Foot - Drum, single leading shoe on rear wheel,
152 x 25 mm (6 x 1 inch)
- 7.2 Hand - Drum, single leading shoe on front wheel,
152 x 25 mm (6 x 1 inch).

8. Tyres and rims

8.1 Tyres

- 8.1.1 Front 3.50 x 19 inch
- 8.1.2 Rear 4.00 x 18 inch

8.2 Rims

- 8.2.1 Front 19 x 1.85 steel
- 8.2.2 Rear 18 x 1.85 steel

8.3 Spokes

- 8.3.1 Front 3.5 mm dia
- 8.3.2 Rear RH butted 4.0 mm dia
LH 3.5 mm dia

9. Electrical

- 9.1 Battery 12V 5A/hr
- 9.2 Distributor BOSCH electronic CDI 12V
- 9.3 Alternator 12V - 130W
- 9.4 Spark plug Bosch 260 (or equivalent)

10. Transportation data

- 10.1 Airportability/Air drop
- 10.2 Shipping tonnage 1.9 m³
- 10.3 Fording depth 0.3 m (11¾ inches) splash fording
- 10.4 Unladen weight 132.5 kg (292 lb).

11. Performance data

11.1	Top speed	137 kph (85 mph)	
11.2	Sustained cruising speed	105 kph (65 mph)	
11.3	Range of action at average speed 64 kph (40 mph)	225/252 km (140 - 157 miles)	
11.4	Fuel consumption:		
	11.4.1 Ave speed 60 kph (40 mph)	70/72 kpg (44/45 mpg)	
	11.4.2 Constant speed (60 kph) (40 mph)	70/72 kpg (44/45 mpg)	
11.5	Turning circle	3.7 m (12 feet)	
11.6	Maximum angle of ascent	17° in top gear	
11.8	Wt. Front axle	55 kg (121 lb))	Without
	Rear axle	77.5 kg (171 lb))	rider
11.9	Wt. Front axle	79 kg (174 lb))	With rider
	Rear axle	130.6 kg (288 lb))	(Riders WT-170 lb)

END