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MOTORCYCLE, GENERAL PURPOSE,

HARLEY-DAVIDSON

MAINTENANCE SCHEDULE

(JOINT SERVICE)

REPRINTED INCORPORATING AMDTS 1-6

BY COMMAND OF THE DEFENCE COUNCIL

Ministry of Defence
Issued by
LAND SYSTEMS TECHNICAL PUBLICATIONS AUTHORITY
Repository Road, Woolwich, London SE18 4QA

AMENDMENT RECORD

Amdt No.	Incorporated By (Signature)	Date	Amdt No.	Incorporated By (Signature)	Date
1	INCORPORATED <i>[Signature]</i>	20-12-96	32		
2	INCORPORATED <i>[Signature]</i>	20-12-96	33		
3	GRC Boyle	10/11/97	34		
4	B. Wiernig	12/10/98	35		
5	GRC Boyle	4/9/00	36		
6	B. Yelland	10/3/03	37		
7			38		
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PREFACE

Sponsor:

DGES(A)

File ref: Tpt Eng (RAF)

Publications Approving Authority:

Vehs & Wpns Br REME

Project No: ES52c(2) 4104(114)

File ref: DGES(A)/548/1/4

INTRODUCTION

1 Service users should forward any comments on this publication through the channels prescribed in AESP 0100-P-011-013. An AESP Form 10 is provided at the end of this publication; it should be photocopied and used for forwarding comments on this AESP.

2. The subject matter of this publication may be affected by Defence Council Instructions (DCIs), Standing Operating Procedures (SOPs) or by local regulations. When any such instruction, Order or regulation contradicts any portion of this publication it is to be taken as the overriding authority.

RELATED AND ASSOCIATED PUBLICATIONS

Related publications

3 The Octad for the subject equipment consists of the publications shown below. All references are prefixed with the first eight digits of this publication. The availability of the publications can be checked by reference to the relevant Group Index (see AESP 0100-A-001-013).

CATEGORIES AND INFORMATION LEVELS																			
Level	Category	1		2		3		4		5				6		7		8	
		0	0	1	2	0	1	2	1	2	3	4	0	1	1	2	1	2	
1	USER/OPERATOR	101	201	*	*	*	*	*	*	*	*	*	601	*	711	*	*	*	
2	UNIT MAINTENANCE	*	*	*	*	302	*	*	512	522	*	*	*	*	711	*	*	*	
3	FIELD MAINTENANCE	*	*	*	*	*	*	*	512	522	*	*	*	*	*	*	*	*	
4	BASE MAINTENANCE	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	

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| 1.0 Purpose & Planning Information | 5.3 Inspection Standards |
| 2.0 Operating Information: | 5.4 Calibration Procedures |
| 2.1 Special to Arms | 6.0 Maintenance Schedules |
| 2.2 Training Aids | 6.1 Maintenance Schedules (RAF) |
| 3.0 Technical Description | 7.1 Illustrated Parts Catalogue |
| 4.1 Installation Instructions | 7.2 Commercial Parts List |
| 4.2 Prep for Special Environments | 8.1 Modification Instructions |
| 5.1 Failure Diagnosis | 8.2 General Instructions |
| 5.2 Repair Instructions | |

* Not published

Associated publications

4	<u>Reference</u>	<u>Title</u>
	JSP 341	Road Transport Regulations
	AP 3260 Book 1	Mechanical Transport Maintenance Regulations for the Royal Air Force
	AP 4545 Volume 2	Mechanical Transport - General Orders and Modifications (RAF only)

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AESP Form 10 (Issue 4.1 dated Aug 99)

MAINTENANCE SCHEDULE

Introduction

- 1 This Maintenance Schedule is the authority for carrying out all scheduled maintenance tasks on the subject equipment and takes precedence over any other conflicting publication.
- 2 The Unit Commander/MT Officer is responsible for ensuring that the operations detailed in this Maintenance Schedule are properly carried out. He may order any operation to be carried out more frequently than is specified if the conditions under which the equipment operates render it necessary. For Army equipment he should consult his REME advisor before ordering such changes.
- 3 Scheduled Maintenance is to be recorded in the appropriate equipment document in accordance with JSP 341, Chap 16, and AP 3260, Book 1, Chap 3 (RAF only).
- 4 Serial numbers left blank in the tables may be taken up by amendment action at a later date.

Definitions

- 5 As far as this document is concerned, the following definitions apply:

5.1 Examine. Carry out a survey of the condition of an item. For example, the condition of an item can be impaired by the following:

NOTE

The term Examine does not call for dismantling unless specifically instructed to do so in the relevant Operation.

- 5.1.1 Insecurity of attachment.
- 5.1.2 Cracks or fractures.
- 5.1.3 Corrosion, contamination or deterioration.
- 5.1.4 Distortion.
- 5.1.5 Loose or missing fasteners.
- 5.1.6 Chafing, fraying, scoring or wear.
- 5.1.7 Faulty or broken locking devices.
- 5.1.8 Loose clips or packing, obstruction of, or leakage from pipelines.
- 5.1.9 Discolouration due to overheating or leakage of fluids.
- 5.1.10 Damage due to external sources.

5.2 Check. Make a comparison of measurement of time, pressure, temperature, resistance, dimension or other quantity, with a known figure.

5.3 Operate. As far as possible, ascertain that a component or system functions correctly without the use of test equipment or reference to measurement.

5.4 **Replenish.** Refill a container to a pre-determined level, pressure or quantity, this includes any necessary cleaning of orifices, examination of caps, covers, gaskets and washers, renewal of locking devices and clearing of vents.

5.5 **Replace.** Remove an item and then fit a new or reconditioned item.

Warnings, Cautions and Maintenance Notes

6 Before any maintenance task is carried out, the WARNINGS, CAUTIONS and Maintenance Notes preceding the appropriate Table must be read and understood.

Maintenance Intervals and Areas of Responsibility

7 **Table 4 - Action on Receipt.** The maintenance detailed in Table 4 covers the action taken when the equipment arrives on a unit. These operations will normally be of a once-only nature, eg the recording of lifting equipment with the appropriate test authority, actions that are necessary to be undertaken before the equipment is put into service or actions that are only required during the running in period. The tasks are to be carried out by the Tradesmen annotated against the operation.

8 **Table 5 - Out of Phase Maintenance.** The maintenance detailed in Table 5 covers tasks that do not fall into line with the manufacturer's standard time/usage intervals. The tasks are to be carried out by REME, RAF MT Mechanic/Technician, General Electrical Mechanic/Technician or Qualified Tradesmen unless annotated otherwise.

9 Table 6 - Driver/Operator Maintenance

9.1 The maintenance detailed in Table 6, Columns A, B and C is to be carried out by the driver/operator or their civilian equivalent at the following intervals:

9.1.1 A - Daily before use (only on days used).

9.1.2 B - Daily after use (after the equipment has been operated).

9.1.3 C - Weekly whether the equipment is used or not.

9.2 The maintenance detailed in Table 6, Column D is to be carried out by an Army Driver Class 1 or RAF NCO Driver, Qualified Tradesman or their civilian equivalent at least every 3 months.

10 Table 7 - Time/Usage Maintenance

10.1 The maintenance detailed in Table 7, Columns 1st, A, B and C is to be carried out at the following intervals:

10.1.1 1st (RAF Initial) - After the first 500 miles (800 km).

10.1.2 A (RAF Lubrication) - Every 2500 miles (4000 km) or 6 months whichever occurs first.

10.1.3 B (RAF Minor) - Every 5000 miles (8000 km) or 12 months whichever occurs first.

10.1.4 C (RAF Major) - Every 10000 miles (16000 km) or 24 months whichever occurs first.

10.1.5 Column D contains the Area Maintenance indicator which may be used, at the discretion of the Unit Commander or MT Officer, to carry out Area Maintenance at the appropriate time/usage intervals.

NOTES (RAF only)

(1) Vehicles that do less than 6000 miles annually and are on Area Maintenance are to have a Lubrication Maintenance at 6 monthly intervals in accordance with AP 3260, Chapter 3.

(2) The number in the Area Maintenance column indicates which Area is to be carried out.

(3) The Area Maintenance detailed is to be carried out in conjunction with its associated prime mover/specialist equipment scheduled maintenance if applicable.

10.2 The maintenance detailed in Table 7 will be carried out by:

10.2.1 REME Vehicle Mechanic (VM) where annotated (VM) in the table.

10.2.2 Unit appointed personnel, supervised by an Army Class 1 Driver. Where it is specifically indicated (VM), the task should be undertaken by a REME tradesman.

10.2.3 RAF MT Mechanic/Technician or General Mechanic/Technician Electrical as appropriate to the operation.

10.2.4 Qualified Tradesman (QT) - A person is qualified to carry out any task designated 'QT' when he/she has been formally taught how to carry out that task during a trade training course.

10.2.5 The civilian equivalent of the above tradesmen.

11 Table 8 - Out of Use Maintenance

11.1 For RAF equipment, Out of use vehicles or vehicles in Second Echelon are to be maintained in accordance with AP 3260, Book 1, Chap 1, Para 9 and Chap 2, Para 27. Any specific operation appertaining to this equipment will be listed in Table 8.

11.2 For Army equipment, this maintenance is to be carried out as follows:

11.3 When the equipment is taken out of use for periods exceeding one month on the advice of the local REME advisor/MT Officer.

11.3.1 Any equipment taken out of use for periods exceeding 4 months is to be put into preservation in accordance with EMER Wheeled Vehicles A 019 Miscellaneous Instruction No 9.

11.3.2 The equipment is to be cleaned, dried and stored under cover where possible.

11.3.3 Any overdue maintenance is to be carried out when the equipment is brought back into use.

TABLE 1 EQUIPMENT APPLICABILITY

Ser No (1)	Equipment Asset Code (2)	Designation (3)	Contract Numbers (4)
1	1010-4105	Motorcycle, general purpose, left hand dip (Harley Davidson)	
2	1010-9103	Motorcycle, general purpose, right hand dip (Harley Davidson)	

TABLE 2 FUELS, LUBRICANTS AND ASSOCIATED PRODUCTS

NOTES

- (1) Only the products listed below are to be used on this equipment.
- (2) Oil changes at the -15 deg C point shall only be made on the advice of the MT Officer.
- (3) The capacities listed are to be used as a guide only. A physical check is to be carried out to ensure that all fluid levels are correct. This check should be carried out with the vehicle unladen and standing on level ground whenever possible.

Ser (1)	Assembly/System (2)	Product		Capacity	
		Above -15 deg C (3)	Below -15 deg C (4)	Litres (5)	Pints (6)
1	Oil tank	OMD 90	OMD 90	3.2	6.0
2	Front forks (each leg)	OM 33	OM 33	0.5	0.75
3	Drive chain	OMD 90	OMD 90	-	-
4	Swinging arm	XG 279	XG 279	-	-
5	Oil can lubrication	OMD 90	OMD 90	-	-
6	General greasing	XG 279	XG 279	-	-
7	Fuel tank	Civgas	Civgas	13.0	23.0
8	Brake reservoir	OX 8	OX 8	-	-
9	Battery terminals	PX7	PX7	-	-

TABLE 3 EQUIPMENT DATA

Ser (1)	Item (2)	Detail (3)	
	ADJUSTMENTS		
1	Sparking plug gap	0.7 mm	(0.028 in.)
2	Drive chain free play on engine stand	55-65 mm	(2.2-2.6 in.)
	Drive chain free play on sidestand	10-15 mm	(0.4-0.6 in.)
3	Clutch free play	3-5 mm (at lever tip)	(0.12-0.20 in.)
4	Rear brake free play	1.6 mm (at pedal)	(0.063 in.)
5	Valve clearance (cold)	Exhaust 0.05 mm	(0.0020 in.)
		Inlet 0.05 mm	(0.0020 in.)
6	Timing belt deflection	7 mm	(0.275 in.)
	TORQUE WRENCH SETTINGS		
7	Swinging arm nut	56 Nm	(41.3 lbf ft)
8	Front wheel spindle nut	67 Nm	(50 lbf ft)
9	Brake torque arm nuts		
10	Cylinder head nuts	M8 20 Nm	(15 lbf ft)
		M10 35 Nm	(26 lbf ft)
11	Rear brake disc screws	16-24 Nm	(12-18 lbf ft)
	TYRES		
12	Tyre pressures	Front 1.5 bar (22 lbf/in ²)	Rear 1.7 bar (24 lbf/in ²)
13	Unladen weight	161 kg	(354 lb)

TABLE 4 ACTION ON RECEIPT

Table 4 Maintenance is to be carried out in accordance with the instructions shown at Page 2, Para 6 and 7.

Ser (1)	Action (2)
1	NOT TAKEN UP

TABLE 5 OUT OF PHASE MAINTENANCE

Ser (1)	Action (2)	Interval (3)
1	Renew engine timing belt	Every 14,000 miles (22,500 kms)

TABLE 6 DRIVER/OPERATOR MAINTENANCE

Table 6 Maintenance is to be carried out by the tradesmen and at the intervals shown at Page 2, Para 9.1 and 9.2 of this publication.

The following WARNINGS, CAUTIONS and Maintenance Note must be read and understood before commencing these maintenance tasks.

WARNINGS

(1) PERSONAL INJURY. ALL PERSONNEL ARE TO CONSULT THEIR CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH (COSHH) REGULATIONS BEFORE CARRYING OUT ANY MAINTENANCE OR REPLENISHMENT ON THIS VEHICLE AND WEAR THE APPROPRIATE CLOTHING/BARRIER CREAM.

(2) PERSONAL INJURY. DO NOT INHALE THE DUST FROM THE CLUTCH OR BRAKE LININGS OR USE COMPRESSED AIR TO CLEAN AWAY THE DUST.

CAUTIONS

(1) Before starting the motorcycle, ensure that the steering is unlocked.

(2) Since the engine cooling is only effective whilst the motorcycle is in motion, DO NOT allow the engine to idle unnecessarily.

MAINTENANCE NOTES

(1) Check that the oil is circulating and being returned to the reservoir by looking through the filler neck. If no oil appears within 20 seconds, stop engine and investigate.

(2) Brake fluid levels must be checked with reservoirs as level as possible.

Ser (1)	Task (2)	Maintenance Interval			
		A (3)	B (4)	C (5)	D (6)
1	Ensure that the motorcycle has sufficient fuel and oil for the journey or task. (See Maintenance Note).	X			X
2	Examine the motorcycle for obvious damage.	X	X		X
3	Driving controls: Examine for security of attachments and operate.	X			X
4	Rear view mirrors: Examine for cracks, deterioration of reflective surface and security of attachments.	X			X
5	Horn, lamps direction indicators, warning lamps, instruments, gauges: Operate.	X			X
6	Tyres: Check tread depth and for cuts and other damage.	X			X
7	Tyre pressures: Check.	X			X
8	Brakes and steering: Examine for security of attachment and operate.	X			X
9	Drive chain: Check adjustment, lubricate.			X	X
10	Panniers: Examine, check for security of attachment.	X			X
11	Battery: Examine terminals for security of attachment, check electrolyte level, replenish as required.			X	X
12	Front wheel axle nuts: Check tightness.			X	X

TABLE 6 DRIVER/OPERATOR MAINTENANCE (continued)

Ser (1)	Task (2)	Maintenance Interval			
		A (3)	B (4)	C (5)	D (6)
13	Drive sprocket: Check for wear.			X	
14	Examine the motorcycle for fluid leaks.		X		X
15	Brakes: Front and rear reservoir check level and replenish. (See Maintenance Note 2).	X		X	
16	After off road use: Remove plastic brake disc guards and pressure wash brakes to remove mud, dirt, sand etc, replace guards.		X		
17					
18					
19					
20	F 658A (MT ON DETACHMENT DUTY) or F 814 (VEHICLE RUNNING RECORD) as appropriate: Sign.		X		
21	CES Equipment: Examine for serviceability and correct stowage.				X
22	AF G1084 (Worksheet): Sign.				X

TABLE 7 TIME/USAGE MAINTENANCE

Table 7 Maintenance is to be carried out by the tradesmen and at the intervals shown at Pages 2 and 3, Para 10.1 and 10.2 of this publication.

The following WARNINGS and Maintenance Note must be read and understood before commencing these maintenance tasks.

WARNINGS

(1) PERSONAL INJURY. ALL PERSONNEL ARE TO CONSULT THEIR CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH (COSHH) REGULATIONS BEFORE CARRYING OUT ANY MAINTENANCE OR REPLENISHMENT ON THIS VEHICLE AND WEAR THE APPROPRIATE CLOTHING/BARRIER CREAM.

(2) PERSONAL INJURY. DO NOT INHALE THE DUST FROM THE CLUTCH OR BRAKE LININGS OR USE COMPRESSED AIR TO CLEAN AWAY THE DUST.

MAINTENANCE NOTES

- (1) When the engine oil secondary filter is renewed, the safety valve in the filter housing must be checked for freedom of operation.
- (2) If the brake pad friction material is worn to 1.6mm (1/16 in.) or less they should be replaced.
- (3) Brake pedal height adjustment is detailed in AESP 2340-H-200-302, section 5, page 50, and AESP 2340-H-200-201, section 5-10, page 5-22.

Ser	Task	Fig No	Prod	Maintenance Period				
				1st	A	B	C	D
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	ENGINE							
1	Engine sump: Drain and replenish.	8	OMD 90	X	X	X	X	
2	Oil feed pipelines: Examine for leaks, chafing and security of attachment.			X		X	X	
3	Engine oil filters: Replace. (See Maintenance Note 1).	9		X	X	X	X	
4	Engine oil strainer: Remove, clean and refit.					X	X	
5	Air filter: Remove, clean and refit.					X	X	
6	Fuel system: Examine for leaks.			X	X	X	X	
7	Fuel valve strainer: Remove, clean and refit. (VM).			X		X	X	
8	Carburettor air muff: Examine for security of attachment.			X	X	X	X	
9	Engine idling speed: Check and adjust as necessary. (VM).			X	X	X	X	
10	Ignition timing: Check and adjust as necessary. (VM).			X		X	X	
11	Cylinder head nuts: Check tightness.			X			X	
12	Tappets: Check and adjust as necessary. (VM).			X			X	
13	Timing belt: Check and adjust as necessary. (VM).			X			X	

(continued)

TABLE 7 TIME/USAGE MAINTENANCE (continued)

Ser	Task	Fig No	Prod	Maintenance Period				
				1st	A	B	C	D
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
14	Exhaust system: Examine for security of attachment.			X		X	X	
15	Cooling fins: Examine for damage and blocked fins.			X		X	X	
16	Spark plugs: Check and adjust. (VM).					X	X	
17								
18								
19								
	STEERING AND SUSPENSION							
20	Handlebars: Examine for damage and security of attachment.			X	X	X	X	
21	Front forks: Examine for damage, leaks and security of attachment.			X	X	X	X	
22	Front forks: Drain and replenish. Check alignment.		OM 33	X			X	
23	Front forks: Examine for correct adjustment.			X		X	X	
24	Steering head bearings: Check and adjust as necessary.			X		X	X	
25	Swinging arm: Examine for damage and security of attachment.		XG 279	X	X	X	X	
26	Shock absorbers: Examine for damage, leaks and security of attachment.			X		X	X	
27	Gaiters and protective covers: Examine for damage and security of attachment.			X	X	X	X	
	TRANSMISSION							
28	Clutch: Check for correct adjustment and security of attachment of the operating mechanism.			X		X	X	
29	Gearbox: Examine for leaks and security of attachment.			X	X	X	X	
30	Drive chain: Clean examine, lubricate and adjust (See Table 3 Sec 2).		OMD 90	X	X	X	X	
31	Gear change pedal: Examine for wear and security of attachment and condition of shaft O-ring.			X	X	X	X	
32	Kick start: Examine for wear and security of attachment.			X	X	X	X	
33	Drive sprocket: Examine for wear and security of attachment.			X	X	X	X	
34								
35								
36								
37								

(continued)

TABLE 7 TIME/USAGE MAINTENANCE (continued)

Ser	Task	Fig No	Prod	Maintenance Period				
				1st	A	B	C	D
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	WHEELS, HUB AND BRAKES							
38	Road wheels and tyres: Examine for wear, damage deterioration, correct size and type. Check for play in wheel spokes adjust spokes as necessary. (VM).			X	X	X	X	
39	Rear wheel sprocket: Examine for wear and security of attachment.			X	X	X	X	
40	Wheel bearings: Check for play, renew as necessary. (VM).		XG 279	X		X	X	
41	Brake pads: Check for wear. (See Maintenance Note (2)).	4		X		X	X	
42	Brake callipers: Check for security of attachment.			X		X	X	
43	Brake levers and pipes: Examine for leakage and security of attachment.	2	XG 279 OMD 90	X	X	X	X	
44	Brake pedal: Check pedal height, adjust as necessary. (VM) (See Maintenance Note (3)).	7		X		X	X	
45	Brake hydraulic fluid: Renew. (VM)	2 & 7	OX8				X	
46	Wheels, axle nuts: Check for tightness.			X	X	X	X	
47	Braking system: Functional test and check levels.			X	X	X	X	
48								
	ELECTRIC							
49	Batteries: Examine. Clean terminals and smear with protective. Check electrolyte level and replenish as necessary.	5	PX 7/ Demin water	X	X	X	X	
50	Battery compartment: Examine, clean and repaint as necessary.						X	
51	Lamps: Examine and ensure correct operation.			X		X	X	
52	Headlamp alignment: Check adjustment in accordance with AP 3260 Book 3, Chap 5-1, Gen Instr No. 1.			X		X	X	
53	Instruments and switches: Examine and ensure correct operation.			X	X	X	X	
54	Fuses: Ensure fuses of correct rating are fitted.			X		X	X	
55	Wiring and termination: Examine for signs of deterioration and security of attachment.			X		X	X	
56								
57								

(continued)

TABLE 7 TIME/USAGE MAINTENANCE (continued)

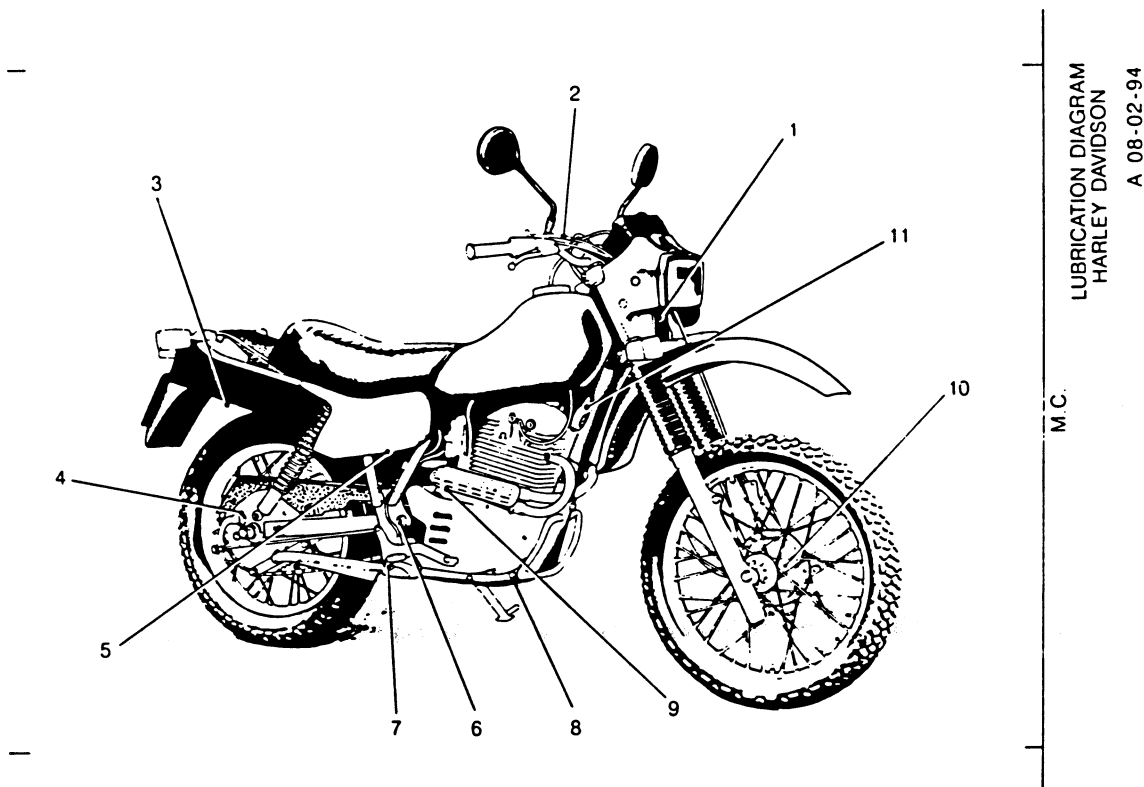
Ser (1)	Task (2)	Fig No (3)	Prod (4)	Maintenance Period				
				1st (5)	A (6)	B (7)	C (8)	D (9)
	FRAME AND BODY							
58	Frame: Examine for damage, corrosion and condition of paintwork.			X		X	X	
59	Skid-plate: Examine for damage and security of attachment.			X		X	X	
60	Frame nuts: Check tightness.			X	X	X	X	
61	Centre and side stand: Examine for damage and security of attachment. Lubricate.		XG 279 OMD 90	X	X	X	X	
62	Foot rests: Examine for damage and security of attachment.			X	X	X	X	
63	Mudguards: Examine for damage and security of attachment.			X		X	X	
64	Registration plate: Examine for condition of paint surface, letters, numerals and security of attachment.			X	X	X	X	
65	Tank: Examine for damage, leaks and security of attachment.			X	X	X	X	
66	Seat: Examine for damage and security of attachment.			X	X	X	X	
67	Dataplate: Examine for details, correct location and security of attachment.			X			X	
68	Oil can lubrication: General lubrication of all controls, levers, linkages, pivot pins, locks, catches and hinges.		OMD 90	X	X	X	X	
69	AF G1084A Work Sheet or STAMA (Tradesmen and Countersigning NCO): Sign. (RAF only).			X	X	X	X	
70	Brake test (NCO MT Technician only): Carry out (RAF in accordance with AP 3260, Book 3, Chap 4.1, Gen Instr No. 1). (VM)			X		X	X	
71	Road test (NCO MT TECHNICIAN only): Carry out.			X	X	X	X	
72	AF G1084A Work Sheet: Insert co-ordinating signature or STAMA (RAF only).			X	X	X	X	
73	Record action in AB 562 (Army only).			X	X	X	X	

TABLE 8 OUT OF USE MAINTENANCE

Table 8 Maintenance is to be carried out in accordance with the instructions shown at Page 3, Para 11.1 and 11.2.

WARNINGS, CAUTIONS and Maintenance Notes preceding Tables 6 and 7 must be read and understood before commencing these maintenance tasks.

Ser (1)	Operation (2)
	<p>Prior to vehicle entering storage:</p> <p>1 Carry out Table 6, Columns A, B and C maintenance, check coolant specific gravity and patch paint.</p> <p>2 Carry out next maintenance due if it falls during out of use period.</p> <p>3 Rectify all faults affecting road/task worthiness.</p> <p>4 Fill fuel tanks.</p> <p>5 Isolate batteries by master switch or disconnecting earth lead.</p> <p>6 Drain pre-mix tank, flush tank, pump and pipework with clean water.</p> <p>Monthly whilst vehicle in storage:</p> <p>7 Carry out Table 6, Columns A and B maintenance.</p> <p>8 Operate equipment and all systems.</p> <p>9 Carry out road test over 8 km (5 miles) if possible.</p> <p>10 Update AB 562.</p>



- | | | | |
|---|-----------------------------|----|----------------------------|
| 1 | Voltage regulator | 7 | Rear brake pedal |
| 2 | Front brake fluid reservoir | 8 | Crankshaft drain plug |
| 3 | Tool kit storage box | 9 | Engine oil filter |
| 4 | Rear disc brake | 10 | Front disc brake |
| 5 | Battery | 11 | Frame reservoir drain plug |
| 6 | Trailing arm pivot | | |

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Fig 1 Lubrication diagram

