

## ROYAL ARMoured CORPS TRAINING

Volume II Pamphlet No. 4

**FERRET ALL MARKS SERVICING GUIDE**

Based on Servicing Schedules Army Code Nos. 14000 and 60402 which are authoritative.

Prepared under the direction of  
The Chief of the General Staff

MINISTRY OF DEFENCE

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## MILEAGE SERVICING

On receipt and every 1,000 miles or 2 months **BLACK** servicing  
Every 5,000 miles or 1 year **BLACK** and **RED** servicing

LUBRICANTS		O = OMD 110	P = OEP 220	M = OM 13	G = XG 279	F = OF 24	X = XG 220
1	Oil stowage bins, engine covers, hatches, hinges, catches and handles	O					
2	Lubricate :— a. Steering ball joints b. Steering swivel pins 1 and 2 c. Steering swivel pins 3-5 d. Suspension links 1 and 2 e. Suspension links 3-5 SSI		G	G	G		
3	Top up/drain re-fill bevel boxes		P				
4	Top up hubs		P				
5	Top up/drain re-fill :— a. Gearbox b. Transfer box		O	P			
6	Clean main fuel filter						
7	Change the engine oil and renew filter element		O				
8	Lubricate :— a. Crankshaft fording seal b. Coolant pump bearing c. Distributor mechanism		G	G	O		
9	Service vacuum servo air filter						
10	Clean carburettor inlet union filter (1 and 2) (3-5)						
11	Top up power steering reservoir 3-5						M
12	Service air cleaner SSI						O
13	Top up fluid coupling						M
14	Top up Holdback operating cylinder 2/6						F
15	Lubricate :— a. Turret ring Mk 2 2/6 b. All seat mechanisms c. Gearchange, forward/reverse, gear selector, accelerator, starter carb control, linkages and cables						X G O
16	Manual steering—top up :— a. Upper steering bevel box b. Cross shaft bevel box						O
17	Top up brake fluid (1 and 2) reservoir and clean breather (3-5)						F M
18	Clean and lubricate escape hatch mating surfaces						G
19	Clean escape hatch seal, apply sealing compound						
20	Carry out tyre circumferential check						

## INITIAL SERVICING

At first 500 miles—new vehicle—new or overhauled assembly

Mks 1 &amp; 2 Serials 3, 4, 5, 7, 12, 13, 16, 17

Mks 3-5 Serials 2e, 3, 5, 7, 11, 12, 13, 16, 17  
Change the oil in the hubs

## TASKS BEFORE AND AFTER SWIMMING

## BEFORE

1. Check all access plates in position
2. Erect flotation screen

## AFTER

1. Carry out Serial 2
2. Check 3, 4 for ingress of water, drain, flush if necessary and re-fill

This Servicing Guide supersedes Army Code No. 70423

## DISTRIBUTION

	Scale		Scale
RAC Regular and T and AVR Units :—			
Armoured Regiments ... ..	D + 20	RAC Training Regiment ... ..	10 copies
Armoured Car Regiments ... ..	D + 60	Armoured Branch, HQ, BAOR ... ..	50 copies
Armoured Reconnaissance Regiments ... ..	D + 60	RAC Gunnery Wing, BAOR ... ..	10 copies
Parachute Squadron ... ..	D + 10	Regular Army and T and AVR :—	
2 Armoured Delivery Squadron (RAC) ... ..	D + 10	RA, RE, R Sigs, Inf, RCT, RAOC and REME ... ..	C + 10
British Army Training Unit—Suffield ... ..	D + 10	School of Transport, Bordon ... ..	50 copies
RAC Centre Regiment ... ..	D + 20	OC, CVD, Ludgershall ... ..	25 copies
RAC Centre : D & M School ... ..	444	OC, 6 MAG, REME ... ..	10 copies
Gunnery School ... ..	50		
Publications Section ... ..	6		
	500 copies		

## FERRET ALL MARKS SERVICING GUIDE

RED servicing **MUST** be done

BLACK servicing may be omitted in an operational emergency

### TASKS—VEHICLE IN USE

<p><b>A.</b> Before starting engine for first time—Subsequent starting RED only</p> <p>1 Check :—  a. coolant level (SSI)  b. engine oil level  c. engine compartment for leaks  d. fire extinguishers</p> <p>2 Select and engage each gear six times</p> <p>3 Check fuel level on gauge</p> <p>4 Start up, check warning lights and gauges</p> <p>5 Re-check engine compartment</p> <p>6 Check tyres and tyre pressures</p> <p>7 Check lights and horn (by day only)</p> <p>8 Switch off and re-check engine oil level</p> <p>9 Check stowage</p> <p>10 On moving off check operation of brakes and steering</p>	<p><b>B.</b> During halts and at least once a day</p> <p>1 Check brake discs, hubs, bevel boxes for overheating  Suspension, tyres and steering linkage for condition</p> <p>2 Check stowage</p> <p>3 Check for any fuel, oil and coolant leaks</p> <p><b>C.</b> Once daily towards the end</p> <p>1 Check :—  a. coolant level (SSI)  b. engine oil level  c. engine compartment for leaks  d. fire extinguishers</p> <p>2 After cross country do D 2</p> <p><b>D.</b> Weekly</p> <p>1 Service batteries (SSI)</p> <p>2 Check brake pad plunger protrusion (SSI)</p> <p>3 Check wheel nuts visually</p>
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### TASKS—VEHICLE OUT OF USE

<p><b>E.</b> PRIOR</p> <p>1 Ensure that all faults have been rectified</p> <p>2 Service and check the state of charge of the batteries</p> <p>3 Clean and thoroughly dry the vehicle</p>	<p><b>F.</b> EVERY TWO WEEKS</p> <p>1 Carry out Task A</p> <p>2 Move the vehicle at least 1 mile</p> <p>3 Complete tasks B, C and D</p>
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### G. MACHINE GUN SERVICING

<p>1 Two monthly/Before firing and After firing  a. strip, dry clean, examine, re-oil and assemble = OX 18  b. carry out 8 point check  c. clean, examine and lightly oil mounting = OX 18  d. check adjustment shoulder piece, lightly oil = OX 18 (Mk 2)  e. clean, examine and lightly oil trigger piece = OX 18 (Mk 2)</p>	<p>2 Immediately Before and After firing</p> <p>Before: a. dry clean bore  b. check cartridge headspace (·30)</p> <p>After: a. dry clean and oil bore  b. lubricate working parts = OX 18</p>
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### MG 8-POINT CHECKS

T = TEST

C = CHECK

·30 MG	7·62 GPMG
1 Backplate assembly = buffer adjustment (C)	1 Breech block (T)
2 Headspace and timing (C)	2 Piston (C)
3 Firing pin protrusion (C)	3 Piston head friction (C)
4 Extractor (C)	4 Back plate and buffer assembly (C)
5 Feed mechanism (C)	5 Trigger mechanism (C)
6 Feed slide (T)	6 Cover (C)
7 Barrel jacket (C)	7 Gas regulator (Set position 2) (C)
8 Barrel plug and front barrel bearing (C)	8 Flash eliminator (C)