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# CREW DUTY CARD

## SCOUT CAR, FERRET Mk 1 and 2

1962

This card is designed for use by trained personnel as a reminder of the daily duties required of them. For weekly, monthly and mileage servicing see User Handbook for Scout Car Ferret Mk 1 and 2, 1957 (WO Code No. 12174).

*Prepared under the direction of  
The Chief of the Imperial General Staff.*

THE WAR OFFICE,  
AUGUST, 1962.

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## RESTRICTED CREW DUTY CARD

for

## SCOUT CAR, FERRET Mk 1 and 2

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PART I

**FERRRET MK 1 (LIAISON)**

**DRIVER/SIGNALLER**

Note: On vehicles which carry a separate signaller, he will carry out the duties in sub-paras (s) and (t) of First Parade and sub-paras (c), (p) and (q) of Last Parade.

**FIRST PARADE**

- Ref to Ref (a) Check fire extinguishers.
- STARTING (b) Check fuel, oil and coolant levels. — LEAKS
- (c) In cold weather turn engine a few times by hand.
- (d) Turn fuel tap to main supply.
- (e) Fully depress and release gear change pedal six times in each gear. Select and engage neutral. Check transfer box lever in required position.
- STOPPING (f) Check hand throttle control screwed fully clockwise.
- (g) Set starter carburettor control.
- (h) Switch on ignition and check warning lights.
- (i) Start engine.
- (j) Check that warning lights go out.
- (k) Set warming up speed at 800 to 1,000 rpm.
- (l) Check engine compartment for leaks.
- (m) Check external lights.
- (n) Stop engine when warm, (130°F or above). Re-check oil level and top up if necessary.
- (o) Check tyre pressures.

**DRIVER/SIGNALLER—cont'd**

- (q) Check under vehicle for leaks and faults.
- (r) Check driver's hatch, flap, windscreen and periscopes.
- (s) Carry out "opening up" drills for radio installation. Check vehicle correctly stowed.
- (t) If firing expected, carry out "Servicing before Firing" on MG and machine carbine (see page 11).
- STOP MOVING (u) Test brakes and steering on moving off and again at 20 mph.

**HALTS ON THE MARCH**

**First halt**

- (a) Check hubs and brake drums for overheating.
- (b) Quick check of engine compartment.
- (c) Check components refilled on Last Parade.
- (d) Check stowage.

**20-minute halt**

- (a) Check hubs and brake drums for overheating.
- (b) Inspect tyres, remove stones, oil and grease.
- (c) Inspect suspensions and steering linkages.
- (d) Inspect engine compartment.
- (e) Check stowage.

**Long halt**

- (a) As for 20-minute halt.
- (b) Check fuel, oil and coolant levels.

## DRIVER/SIGNALLER—*cont'd*

### LAST PARADE

- (a) Draw and replenish fuel, oil and ammunition.
- (b) Replenish fuel and engine oil, including spare cans.
- (c) Stow ammunition.
- (d) Clean engine compartment, and check for leaks.
- (e) If operating in dusty conditions, inspect air cleaner; wash element and change oil if necessary.
- (f) Check external lights.
- (g) Inspect suspension springs, links and bumper pads for damage, and transmission gaiters for oil leaks and breaks. Examine steering linkage for damage.
- (h) Inspect tyres. Remove embedded stones and wipe off oil and grease.
- (j) Inspect security of road wheel nuts.
- (k) Clean driving mirrors.
- (l) Clean periscopes, driver's screen and edge of flaps (oil hinges if necessary).
- (m) Check free travel of gear change pedal and brake pedal.
- (n) Clean driver's compartment.
- (o) When engine is cool, check coolant level and top up if necessary.
- (p) Carry out "closing down" drills on harness and radio sets.
- (q) If weapons have fired, carry out "Servicing after Firing" (see page 12). If weapons have not fired, dry clean and re-oil bores. Stow guns.
- (r) Carry out any mileage servicing that may be due.
- (s) Check, clean and stow tools.
- (t) Complete record sheet in AB 413.
- (u) Before leaving vehicle, engage lowest gear in gearbox, engage drive in transfer box and fully apply handbrake.
- (v) Check vehicle correctly stowed.
- (w) Report vehicle state.

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## PART II FERRET MK 2 (RECONNAISSANCE) COMMANDER/SIGNALLER

### FIRST PARADE

- X (a) Check fire extinguishers.
- (b) Carry out "opening up" drills for radio installations.
- (c) Check elevation, depression and traverse of MG.
- (d) Check that periscopes and side visors are clean and undamaged.
- (e) If firing expected, carry out "Servicing before Firing" (see page 11).
- X (f) Check operation of rear observation flaps, turret flaps and emergency escape hatches.
- X (g) Check vehicle correctly stowed.

### HALTS ON THE MARCH

#### At all halts

- (a) Check radio sets still on net.
- (b) Check internal stowage.
- (c) If not on radio watch, assist driver.

### LAST PARADE

- (a) Supervise and assist in replenishment of fuel, oil and ammunition.
- (b) Detail servicing tasks to be carried out.
- (c) Carry out "closing down" drill on harness and radio sets.
- (d) If weapons have fired, carry out "Servicing after Firing" (see page 12).
- (e) If weapons have not fired, dry clean and re-oil bores.
- (f) Check and clean splash screen and side visors.
- (g) Clean crew compartment and lubricate seat as necessary.
- (h) Check vehicle correctly stowed.
- (j) Assist driver as necessary.
- (k) Complete record sheet in AB 413.
- (l) Report vehicle and crew state.

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## DRIVER

### FIRST PARADE

#### DRIVER'S

#### STARTING

#### LEAVES.

- (a) Check fuel, oil and coolant levels.
- (b) In cold weather turn engine a few times by hand.
- (c) Turn fuel tap to main supply.
- (d) Fully depress and release gear change pedal six times in each gear. Select and engage neutral.
- (e) Check transfer box lever in required position.
- (f) Check hand throttle control screwed fully clockwise.
- (g) Set starter carburettor control.
- (h) Switch on ignition and check warning lights.
- (i) Start engine.
- (j) Check that warning lights go out.
- (k) Set warning up speed at 800 to 1,000 rpm.
- (l) Check engine compartment for leaks.
- (m) Check external lights.
- (n) Stop engine when warm, (130°F or above). Re-check oil level and top up if necessary.
- (o) Check tyre pressures.
- (p) Check under vehicle for leaks and faults.
- (q) Check driver's hatch, flap, windscreen and periscopes.
- (r) Assist crew as necessary.
- (s) Test brakes and steering on moving off and again at 20 mph.

### HALTS ON THE MARCH

#### First halt

- (a) Check hubs and brake drums for overheating.
- (b) Quick check of engine compartment.
- (c) Check components refilled on Last Parade.
- (d) Check external storage.

## DRIVER—cont'd

### 20-minute halt

- (a) Check hubs and brake drums for overheating.
- (b) Inspect tyres, remove stones, oil and grease.
- (c) Inspect suspensions and steering linkages.
- (d) Inspect engine compartment.
- (e) Check external storage.

### Long halt

- (a) As for 20-minute halt.
- (b) Check fuel, oil and coolant levels.

### LAST PARADE

- (a) Assist in drawing and replenishing fuel, oil and ammunition.
- (b) Replenish fuel and engine oil, including spare cans.
- (c) Assist in stowing ammunition.
- (d) Clean engine compartment, and check for leaks.
- (e) If operating in dusty conditions, inspect air cleaner; wash element and change oil if necessary.
- (f) Check external lights.
- (g) Inspect suspension springs, links and bumper pads for damage, and transmission gaiters for oil leaks and breaks. Examine steering linkage for damage.
- (h) Inspect tyres. Remove embedded stones and wipe off oil and grease.
- (i) Inspect security of road wheel nuts.
- (k) Clean driving mirrors.

## **DRIVER—*cont'd***

- (*l*) Clean periscopes, driver's screen and edge of flaps (oil hinges if necessary).
- (*m*) Check free travel of gear change pedal and brake pedal.
- (*n*) Clean driver's compartment.
- (*o*) When engine is cool, check coolant level and top up if necessary.
- (*p*) Check, clean and stow tools.
- (*q*) Assist with other crew duties as necessary.
- (*r*) Before leaving vehicle, engage lowest gear in gearbox, engage drive in transfer box and fully apply handbrake.

## **PART III**

### **SERVICING ARMAMENT, BEFORE, DURING AND AFTER FIRING (FERRET Mk 1 and 2)**

#### **BEFORE FIRING**

- (*a*) Dry clean bores and gas affected parts of MG and machine carbine. Lubricate working parts and test action.
- (*b*) Mount MG and test operation of mounting. Check sight. Slow machine carbine.
- (*c*) Dry clean bore of signal pistol.
- (*d*) Examine and, if necessary, prime grenades No. 36M.
- (*e*) Dry clean and examine smoke grenade dischargers. Fit grenades.
- (*f*) Lock MG, and turret if fitted, in travelling position.
- (*g*) Check condition and accessibility of ammunition.

#### **DURING A LULL IN FIRING**

- (*a*) Clean vision devices and replace damaged periscopes.
- (*b*) Re-load smoke grenade dischargers if necessary.
- (*c*) Ensure that visors are clear. Replace damaged splash screens if necessary.
- (*d*) Clean and examine MG breech block and check action of firing-pin. Oil working parts.
- (*e*) Check ammunition, stow empty magazines and jettison empty cases.

# SERVICING ARMAMENT BEFORE, DURING AND AFTER FIRING—*cont'd*

## AFTER FIRING

### Immediately after

- (a) Dry clean and oil bore of MG, and machine carbine if used. Replace covers.
- (b) Jettison empty cases and belts.
- (c) Lock turret in travelling position, if fitted.
- (d) Replenish ready supply of ammunition and calculate deficiencies.
- (e) Dry clean and oil smoke grenade dischargers.
- (f) Stow machine carbine.

### On return to camp or harbour

- (a) Strip, dry clean and examine MG, and machine carbine if used, with special attention to gas affected parts.
- (b) Dry clean and examine bores.
- (c) Re-oil and re-assemble.
- (d) Stow or remove ammunition as ordered.
- (e) Replace safety-pins in ALL unfired grenades in dischargers and remove grenades. Remove F103 fuzes. Clean barrels and replace covers.
- (f) Dry clean and re-oil MG tripod.
- (g) Dry clean, inspect and re-oil signal pistol.
- (h) Stow or remove ammunition as ordered.
- (j) Exchange unserviceable spare parts.
- (k) Lock MG, and turret if fitted, in travelling position.

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