

SUPPLEMENT 1

# WOMBAT ROLE

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**Note:** *Unless stated, the equipment is common to all marks of vehicle, so where illustrations depict the equipment fitted to a mark of vehicle not relevant, the background can be ignored.*

### GENERAL

1. The WOMBAT MOUNTING for FV432 kit consists of equipment required to load and transport the Wombat gun with a supply of ammunition and also to provide a means of mounting the gun in a firing position on the roof of the vehicle.
2. The kit includes rearranged seating and a pannier sill stowage locker.
3. The procedure detailing the installation of the kit is described in EMER, Tracked Vehicles, E105/2, Installation Instruction No.2.
4. In the firing position the gun has an overall traverse of 533 mils (30 deg), a maximum elevation of 133 mils (7.5 deg (on vehicle centre line) and a maximum depression of 53 mils (3 deg).
5. The gun must be in the rear position with the venturi outboard when firing to prevent damaging the vehicle.

**Warning:** *If a tactical situation arises making it necessary for the vehicle to move with the gun mounted and loaded, the 'safety switch' must be 'safe' and the D.C. assisted by the No.2 will control the gun.*

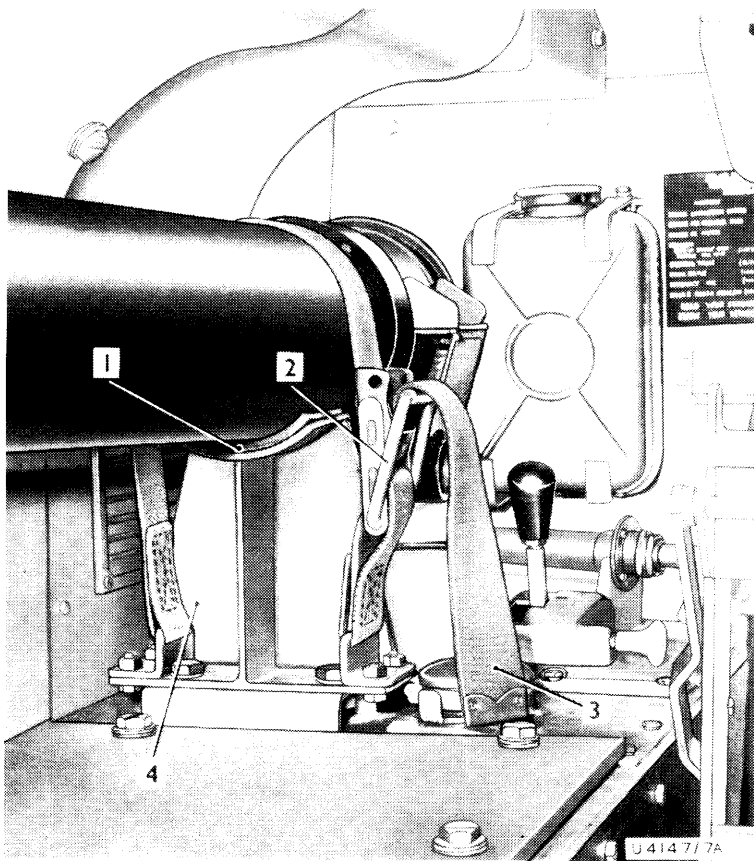
6. When travelling, with the gun in the mount, the mount must be locked in the forward position and the barrel secured by the strap.
7. Unless stated the equipment is common to all marks of vehicle, so where illustrations depict the equipment fitted to a mark of vehicle not relevant, the vehicle background should be ignored.

### PEDESTAL

8. The pedestal (Fig 1) is fitted on the power pack compartment partition sill to support the front end of the barrel. The barrel rests on the curved, padded top (1) of the pedestal where it is secured by a webbing strap. The strap (3) has a quick-release buckle (2) and is attached at each end to the base of the pedestal (4).

### AMMUNITION RACK

9. The rack (Fig 2(4)) is constructed of angle iron sections welded together to form three tiers, each tier holding four rounds. The rack is bolted to the left pannier sill.
10. The rounds rest on wooden cradles (3) in rubber padded recesses and held in position by rubber sleeved clamp bars. The clamp bars are operated by handles (2) secured to them by taper pins.



- 1 Pad
- 2 Quick-release buckle
- 3 Strap
- 4 Pedestal

Fig 1 Pedestal

11. The end crossmembers of the rack are rubber padded to protect the rounds should end movement occur.

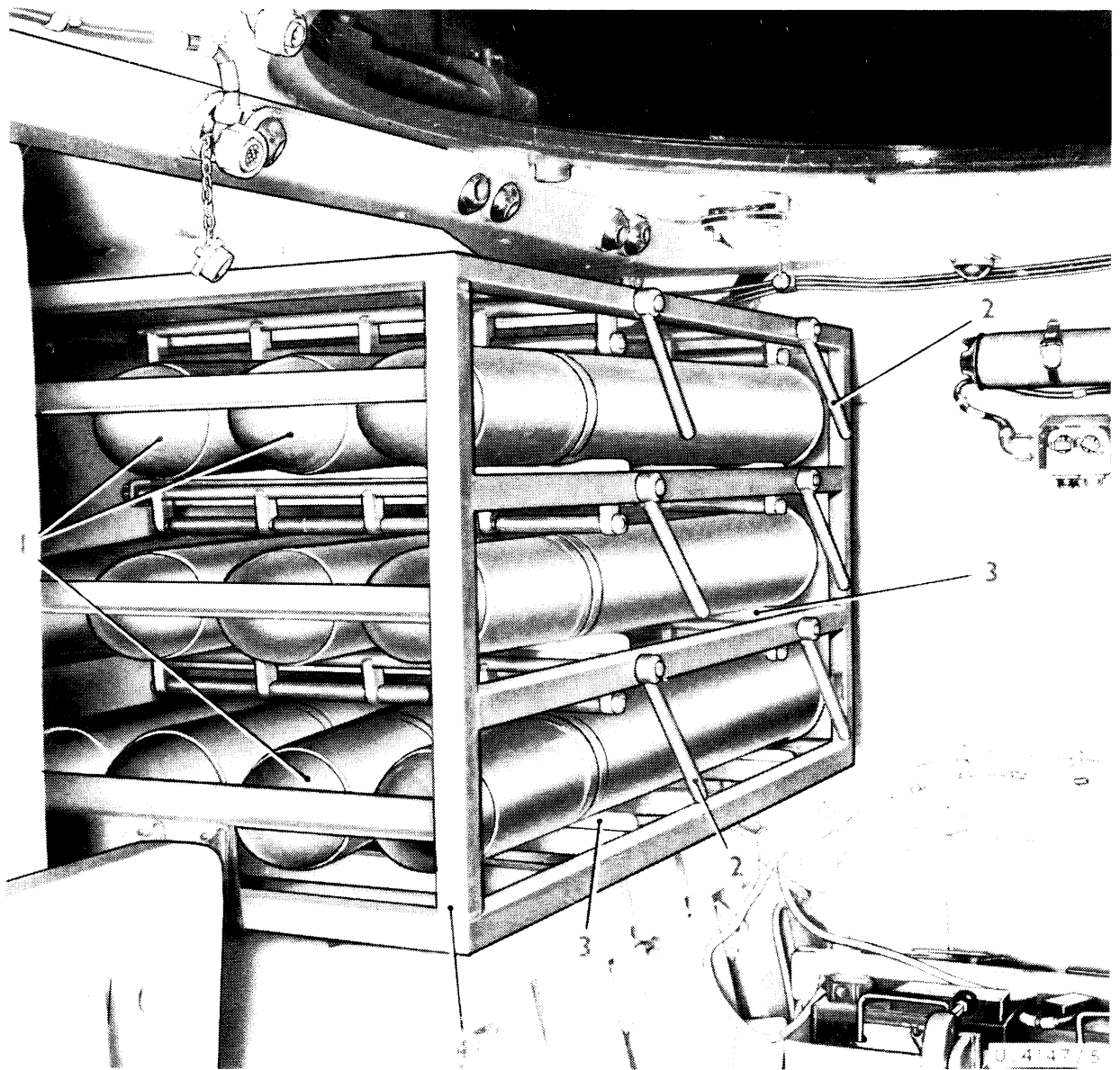
### GUN CRUTCH

12. The gun crutch supports the Wombat carriage by the axle, taking the weight from the wheels for transportation.

13. The fabricated frame of the crutch consists of two angle iron side members connected at the forward end by a transverse angle iron member. An upright member each side carries a swivel plate and locking cam (Fig 3(1)).

14. The axle supports are pivoted on the base of the frame and are spring loaded against limit stops, which retain them at a suitable height to receive the carriage axle. When the Wombat is stowed in the vehicle, the axle contacts the ferodo lined pads (2) and swings the supports forward and raises the Wombat. The supports move forward over-centre and contact adjustable limit stops.

15. The swivel plates are spring loaded to remain open while the Wombat is stowed onto the crutch. When the Wombat is raised the plates are automatically swivelled and the axle is locked in the crutch when the cams are lowered. The wheels are then sufficiently clear of the floor to allow the loading ramps (3) to be stowed under them.

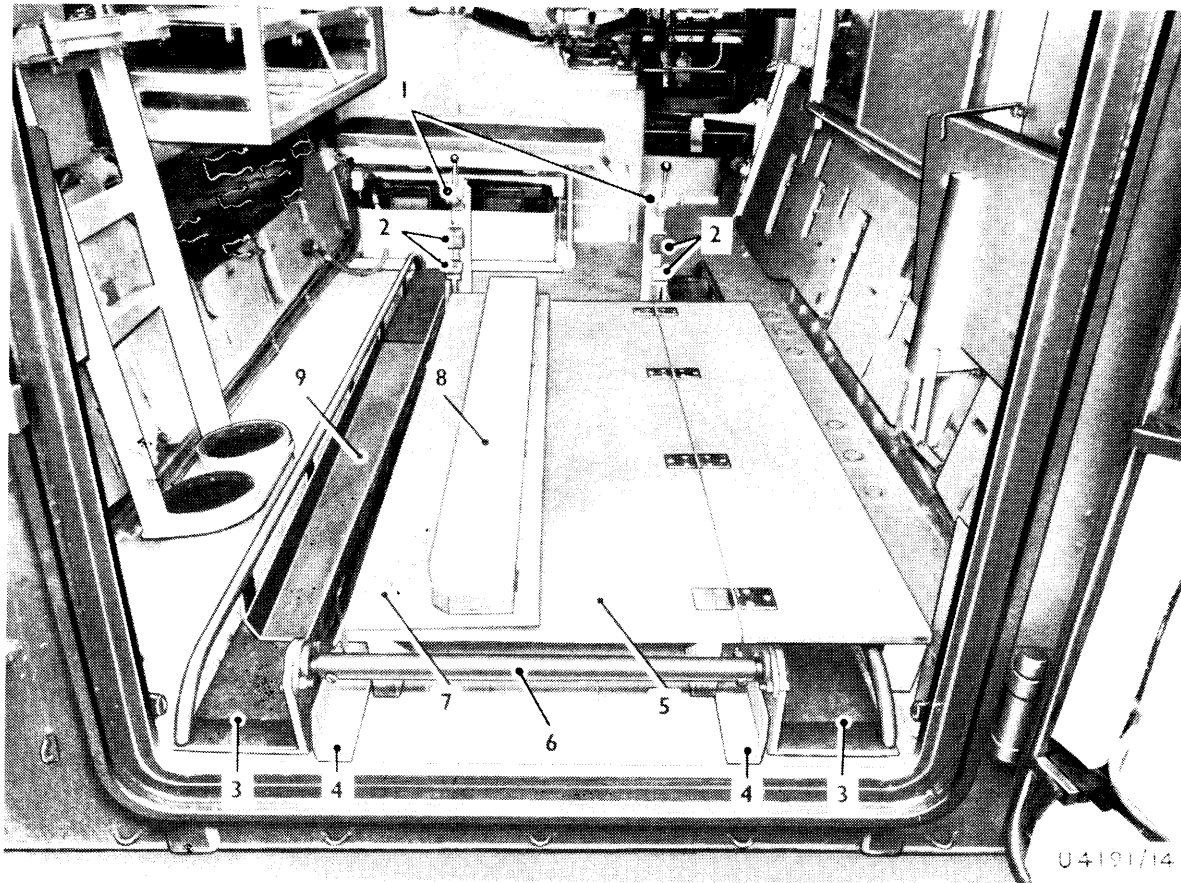


- |   |                   |   |                |
|---|-------------------|---|----------------|
| 1 | Ammunition        | 3 | Wooden cradles |
| 2 | Clamp bar handles | 4 | Rack           |

Fig 2 Ammunition rack

### GUIDE RAILS

16. The guide rails (4) are two lengths of angle iron which have the rear ends curved inwards to form a lead-in to the wheels as they leave the ramp and enter the vehicle. The rails are bolted to the floor plate in the rear of the crutch and guide the wheels until they engage the side members of the crutch frame.



- |   |                          |   |                       |
|---|--------------------------|---|-----------------------|
| 1 | Locking cams             | 6 | Tubular cross-member  |
| 2 | Ferodo lined pads        | 7 | Platform side section |
| 3 | Long ramps               | 8 | Support leg           |
| 4 | Guide rails              | 9 | Short ramp            |
| 5 | Platform, centre section |   |                       |

Fig 3 Gun crutch, platform and ramps

#### LOADING RAMP

17. The loading ramp (long ramps) consists of two wheel track guides connected at the rear by a tubular cross-member (6) ball jointed at each end. The guides are welded fabrications each being braced by a tubular rail on the outer side and a rectangular section rail on the inner. At the forward end on each of the outer rails is a projecting pin which engages inside the vehicle doorway when the ramp is in the loading position.

18. The ball joints on the tubular cross-member allow the track guide ends to rest firmly on the ground despite any unevenness that may be present. The ball joints are bolted into the ends of the tube and secured to the track guides by bearing plates bolted to the inner rail end plates.