## RESTRICTED

WHEELED VEHICLES
H 257 Mod. Inst. No. 2

CS

## ARMOURED CARS, DAIMLER, MKS. 1 AND 2

#### TECHNICAL HANDBOOK - MODIFICATION INSTRUCTION

### SUMMARY

1. This instruction covers the fitting of Dischargers, smoke grenade to the turrets of vehicles designated by the General Staff.

Estimated time required to perform the modification: 10 man-hours.

2. Items affected:-

Turret and electrical equipment

- 3. Action required:-
  - (a) By units affected:-
    - (i) When directed by the General Staff, enter the details of this modification in the A.B. 413 of each vehicle affected.
    - (ii) Demand the stores and, on receipt, request R.E.M.E. to carry out this modification, ensuring that the stores accompany each vehicle into workshops.
  - (b) By second, third and fourth line R.E.M.E. workshop units (Group'B):-
    - (i) When requested by units, carry out this modification in accordance with the instructions given in paras. 6 and 7 and Figs. 1, 2, 3 and 4.
    - (ii) Endorse the modification details in the A.B. 413 of each vehicle modified.

4. Stores required: The following stores will be demanded through the normal channels, quoting the modification reference number A 2544 and E.M.E.R. Whd. Veh. H 257 Mod. Inst. No. 2 on the indent:-

Note: Stores will be demanded as a set and not by individual items.

(For stores, see over)

V.A.O.S., Section	Part No.	Designation	Qty: per veh.
LV5/BM	BT 432	Discharger, smoke grenade, mod. set	. 1
M1 M1 LV6/MT5 LV6/MT5 LV5/BM	MR 156 GA MR 157 GA 12294 FB 106/8D 131352 131353 416172/2 416172/4 C 6442 HC 4530 BC 41080 299705 FB 306/12D 416160	comprising: Discharger, smoke grenade (L. H.) (1) Discharger, smoke grenade (R. H.) (1) Simmonds nuts, $\frac{3}{8}$ in. B. S. F. (12) Bolts, B. S. F. $\frac{3}{8}$ in. x 1 in. hexhd. (12) Support assy. (L. H.) (1) Support assy. (R. H.) (1) Conduit assy. (1) Conduit assy. (1) Eushes (4) Adaptors (2) Protectors (2) Blanking plate (1) Bolts, B. S. F., $\frac{3}{8}$ in. x $1\frac{1}{2}$ in., cskhd. (3) Pad assys. (2)	
LV5/BM	C 4192 CA 6562 C 4272 406392 415282 416332 416173/7 416173/5 416173/6 IDN 10934 299673	Elbows (2) Locknuts (2) Tee-pieces (2) Bowden clips (2) Clips (3) Clip (1) Conduit assy. (1) Conduit assy. (1) Conduit assy. (1) Conduit assy. (1) Button box (1) Button box support (1)	
LVS/BM LV6/MT5 LV6/MT5 LV6/MT4	299673 FB 104/4D 34974 11344 GB 7160	Button box support (1) Bolts, B.S.F., $\frac{1}{4}$ in. $x \frac{1}{2}$ in., hexhd. (4) Simmonds nuts, $\frac{1}{4}$ in. B.S.F. (4) Cable, flame and oil resisting (14/012 I.A. Spec. 192 R.) (16 yd.) Electrodes, austenitic, 10 S.W.G. (12 ft.)	Ε.

### 5. Stores to be removed:-

Part No.	Designation	Qty. per veh.
129438	Cables, No. 8	2
29560	Bracket, firing lever	1
0117	Firing levers	2
3074	Dischargers, smoke grenade, 4 in.	2
129438	Bracket, Discharger, smoke grenade	1

### DETAIL

6. In order that a defensive smoke screen may be laid rapidly in an emergency, Dischargers, smoke grenade, No. 1, Mk. 1 (R. H. and L. H.) and ancillary equipment will be fitted to the vehicle turret.

### 7. Proceed as follows:-

- (a) Refer to Fig. 1. Remove and discard the two 4 in. smoke dischargers and mounting bracket from the offside turret panel, and secure the blanking plate (Pt. No. 299705) to the turret rear side plate, using the three bolts of the Thompson sub-machine gun ammunition container and the three additional bolts (Pt. No. FB 306/12D) provided. Weld the blanking plate to the turret as shown, using the electrodes provided.
- (b) Refer to Fig. 3. Remove and discard the firing levers, cables and support bracket from the inside of the turret. Replace the support bracket securing bolts in the turret ring.

(c) Refer to Figs 2 and 3:-

- (i) Mark out from the dimensions shown, and drill or flame cut the two  $\frac{7}{8}$  in. dia. holes.
- (ii) Weld a protector (Pt. No. EC 41080) over each hole on the outside of the turret as shown.

# (d) Refer to Fig. 2:-

(i) Locate and weld the support assemblies L. H. and R. H. (Pt. Nos. 131352 and 131353) on the turret side panels.

(ii) Secure the smoke dischargers, L.H. and R.H. (Pt. Nos. MR 156GA and MR 157GA) to their respective supports, using the nuts and bolts provided.

## (e) Refer to Fig. 3:-

- (i) Locate and weld the two pad assemblies (Pt. No. 416160) to the inside of the turret side panels.
- (ii) Bolt the button box support (Pt. No. 299673) to the turret top plate and secure the button box (Pt. No. LDN 10934), using the four bolts and nuts provided.
- (f) Refer to Figs. 2 and 3. Assemble the six conduit assemblies, using the elbows, tec-pieces, bushes, adaptors and locknuts provided and secure the assemblies to the turret panels in the positions indicated, using the clips provided.
- (g) Refer to Fig. 4:-
  - (i) With the battery master switch in the OFF position, wire up and complete the connections to the smoke dischargers, button box, and fusebox as shown.
  - (ii) Close the battery master switch and test the circuit for correct operation by connecting a vehicle inspection lamp between each discharger terminal and earth in turn and pressing the appropriate firing button. The lamp should glow only when the appropriate firing button is pressed.

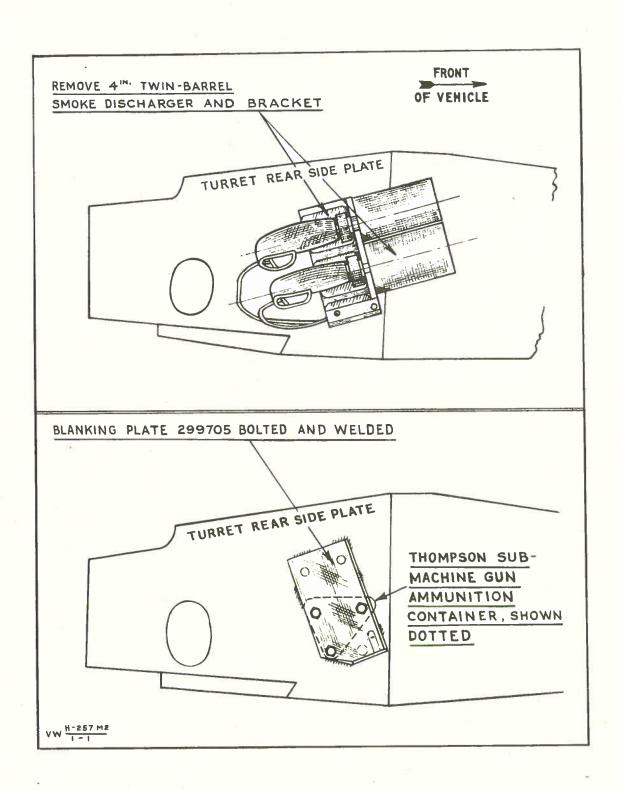


Fig. 1 - External view of turret, offside

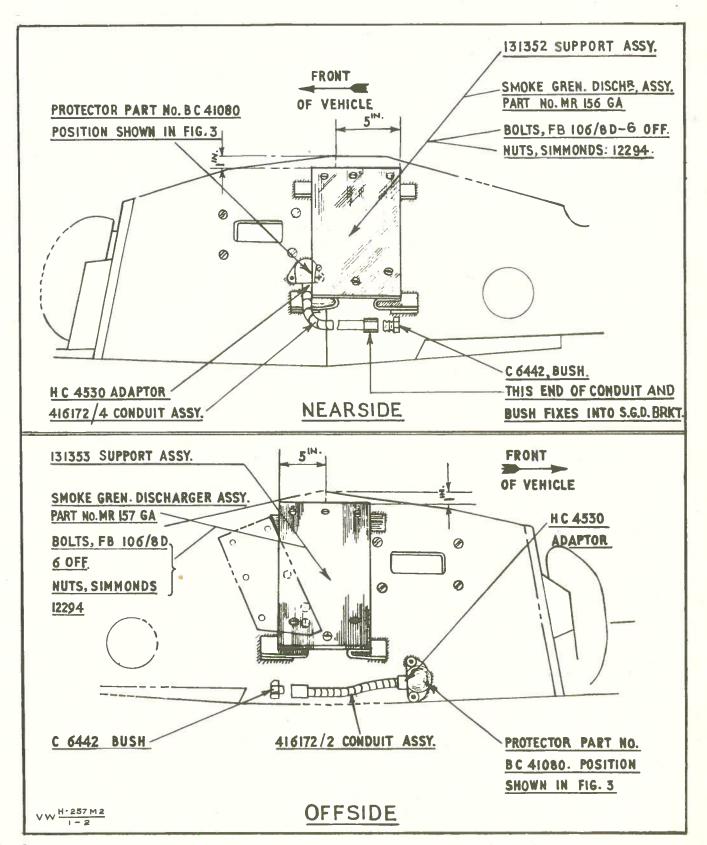


Fig. 2 - External views of turret, nearside and offside

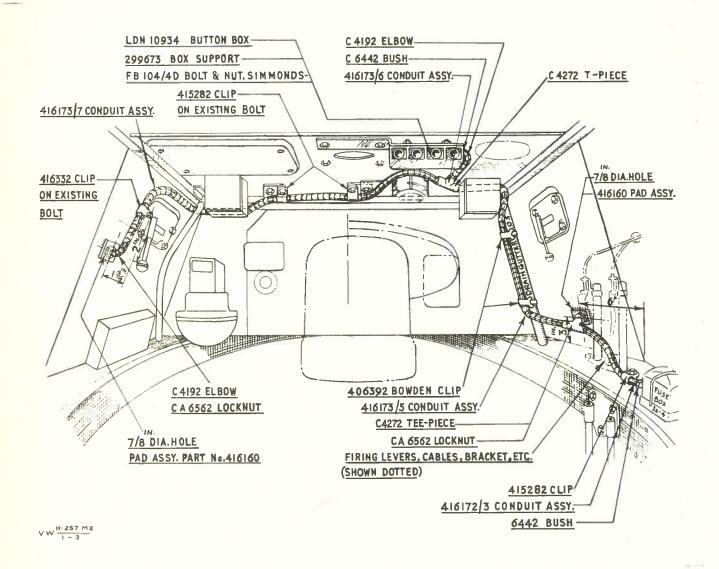


Fig. 3 - Interior view of turret, looking forward

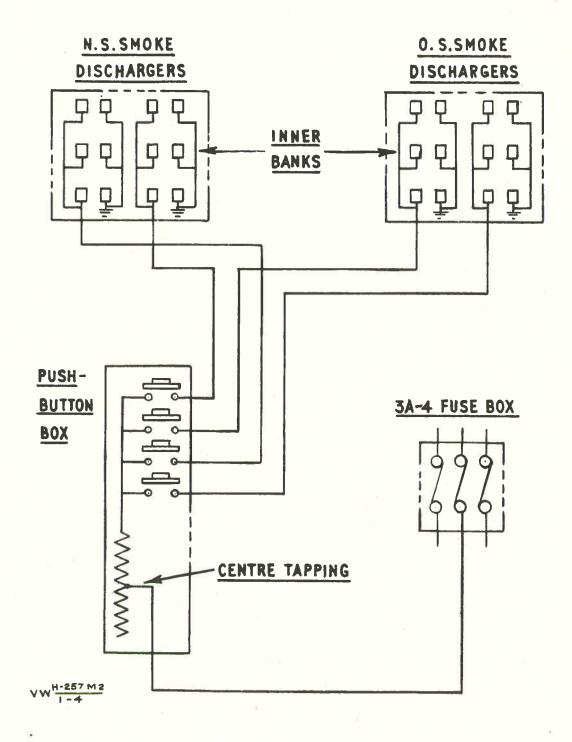


Fig. 4 - Wiring diagram

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