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CHASSIS FRAME AND FLOOR ASSEMBLY

(Fig 148)

777. The chassis frame and floor assembly consists of the frame, floor, front wheel valances, dash panel and battery compartments and is fabricated throughout from sheet steel pressings ranging in thickness from 20 to 12 S.W.G.

778. The chassis frame is of cruciform design and is formed of two box-section side-members (12) and (29), each of which is fabricated from two 14 S.W.G. pressings, one being the inner and the other the outer member. The two cruciform side-members are connected at the centre by a spacing member and an upper and a lower tie-plate and by a front and a rear stiffening plate at the ends of the tie-plates. These connecting parts, which are 12 S.W.G. in thickness, also form, in conjunction with the side-members, a short tunnel for the main drive propeller shaft. Welded into each end of the chassis spacing member are two tapping blocks for the torsion bar bracket bolts. In conjunction with the tapping blocks, two spacers are welded inside each side-member. At the location for the cradle of each axle assembly, each side-member is reinforced externally by a 14 S.W.G. angle plate (1) and (16) and internally by three spacers for the cradle securing bolts.

779. Attached to the inner side of each side-member at the front is a front and a rear engine mounting bracket (50) and (42) while at each side at the rear is a support bracket (14) for the rear axle supporting plate. At the outer side of each side-member and on the centre-line of each axle is a bump stop bracket (2) and (45) just forward of which is a shock absorber bracket (15) and (27).

780. The frame is stiffened transversely by a front and a rear cross-member (48) and (21) respectively, with the assistance afforded by a rear axle buffer cross-member (26) and a rear floor cross-member (24). The front cross-member is fabricated from 16 S.W.G. pressings to form a wide channel section bow-shaped member. The rear cross-member is made of several 14 S.W.G. pressings to form a strong attaching member, which is in the main of box-section, reinforced at the fixing points for the rear towing hook, rear bumpers, lashing eyes and also a winch, when required. The rear axle buffer cross-member is a 14 S.W.G. pressing and is welded at the ends to the rear bump stop brackets. Completing the chassis frame assembly is a rear floor well which is located between the rear floor cross-member and the rear cross-member and consists of three 18 S.W.G. pressings i.e. a centre panel (20), a R.H. side panel (19) and a L.H. side panel.

781. Attached to and bridging the chassis frame behind the rear engine mounting brackets is a dash panel (5) integral with which is a dash tray panel (39) extending its full width, a fabricated support (6) for a machine gun mounting pintle and a pair of brackets (7) and (8) for the centrally mounted instrument panel. Also integral with the dash panel is an attachment member (40) at each side for the front edges of the body shell.

782. At each side of the centre portion of the frame and extending from the bottom of the dash panel to a point just forward of the rear shock absorber bracket is a front floor panel (11) and (32), while at each side of the rear floor well is a rear floor side panel (18) and (22). The floor panels are of 18 S.W.G. steel.

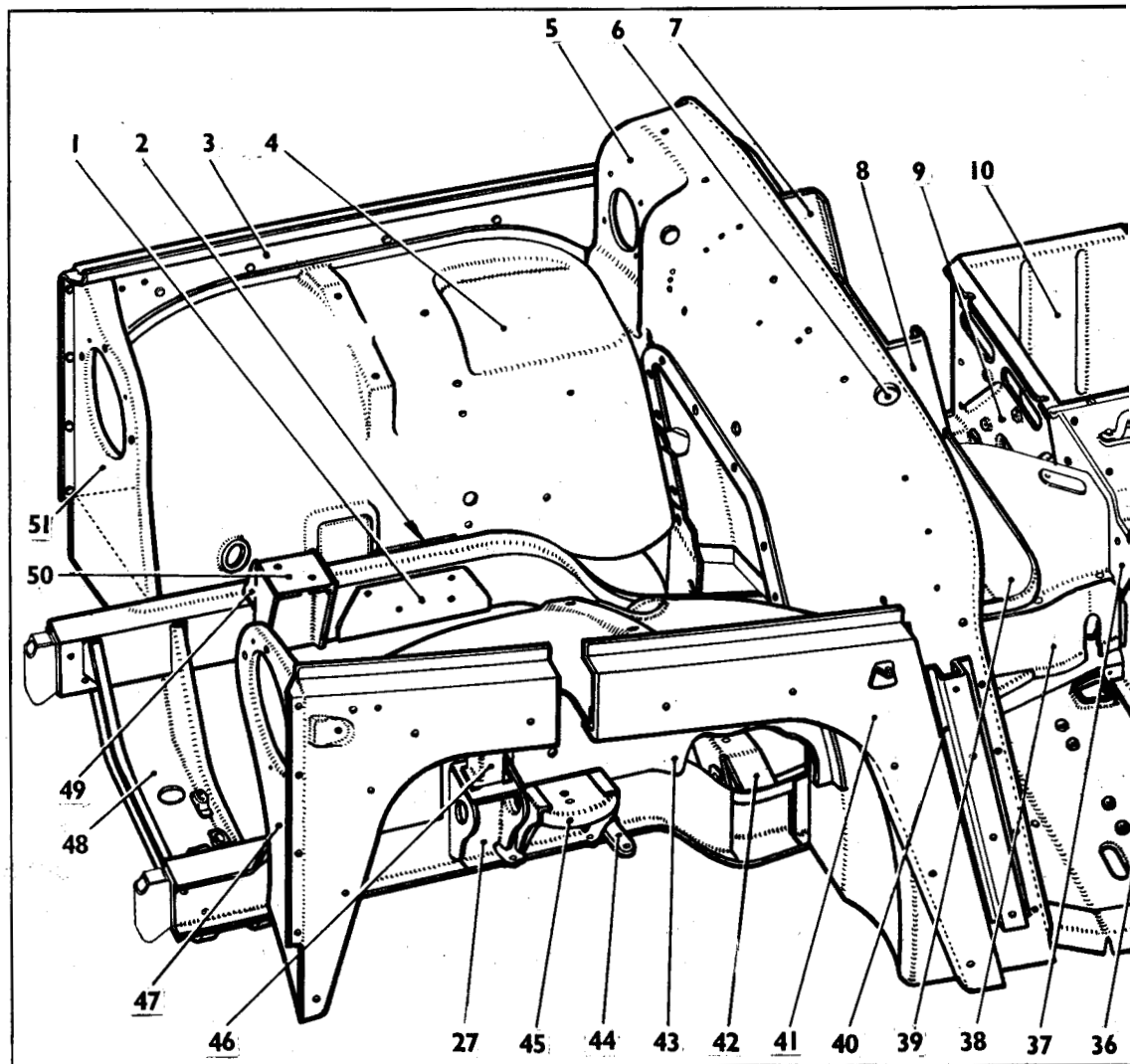
783. Welded to the front floor panels at each side of the frame and located in a central position is a battery compartment assembly constructed of a front and a rear panel, (9) and (34) respectively, to which two side panels (10) and two inner

panels (36) are spot-welded forming three compartments, the end compartments at left and right being for vehicle and radio batteries respectively.

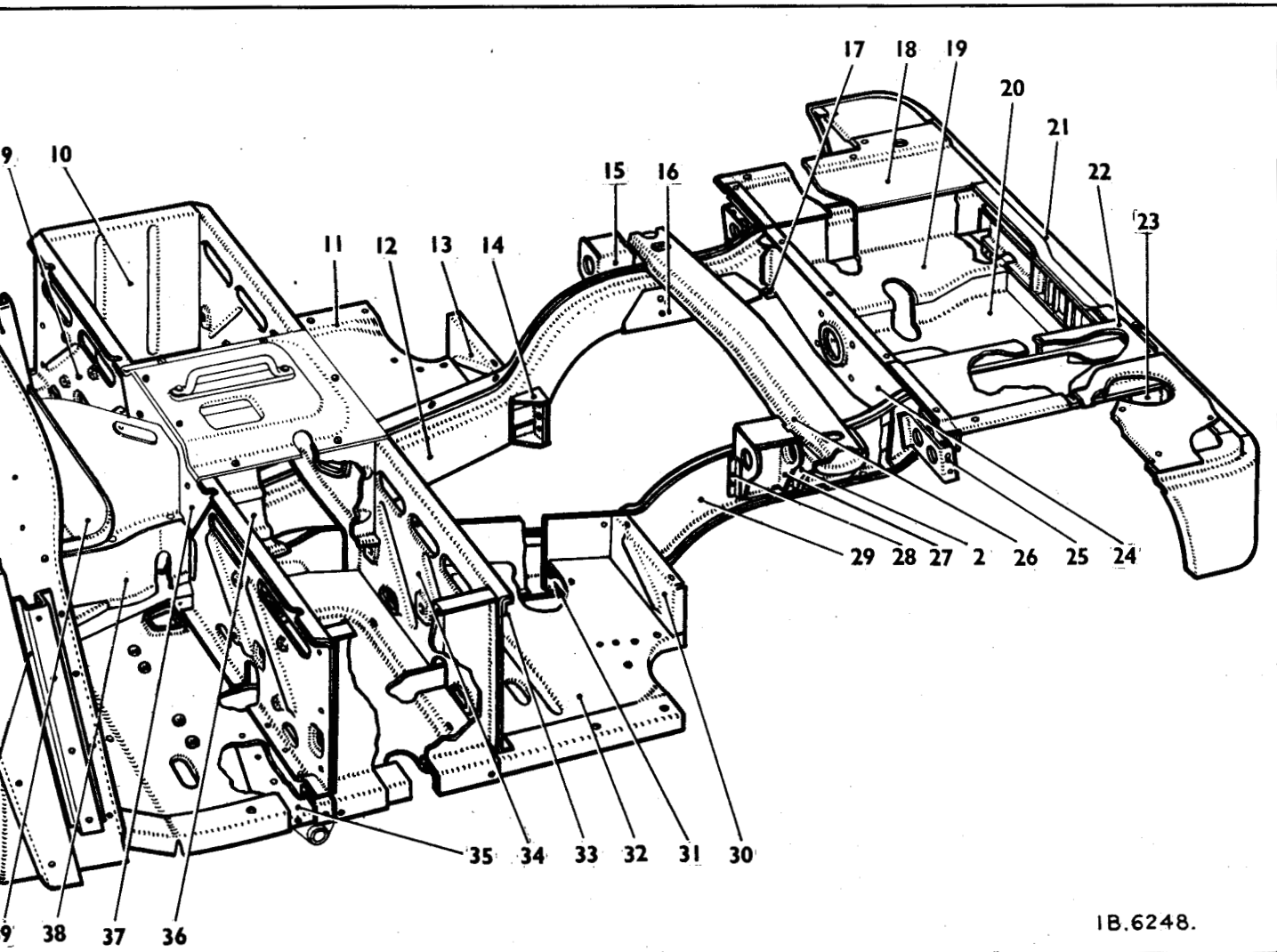
784. Forward of the dash panel and welded to the frame and the panel are the left and right-hand front valance assemblies, each comprising a front wheel arch (43) and (4), side valance panel (41) and (3) and headlamp support (47) and (51), while welded in position between the dash panel and the battery compartment are two gearbox side covers (38). A front wing stay (46) is welded inside each wheel arch.

785. Numerous nuts are welded to the panels comprising the chassis frame and floor assembly for the attachment of the body and fittings.

ELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONS



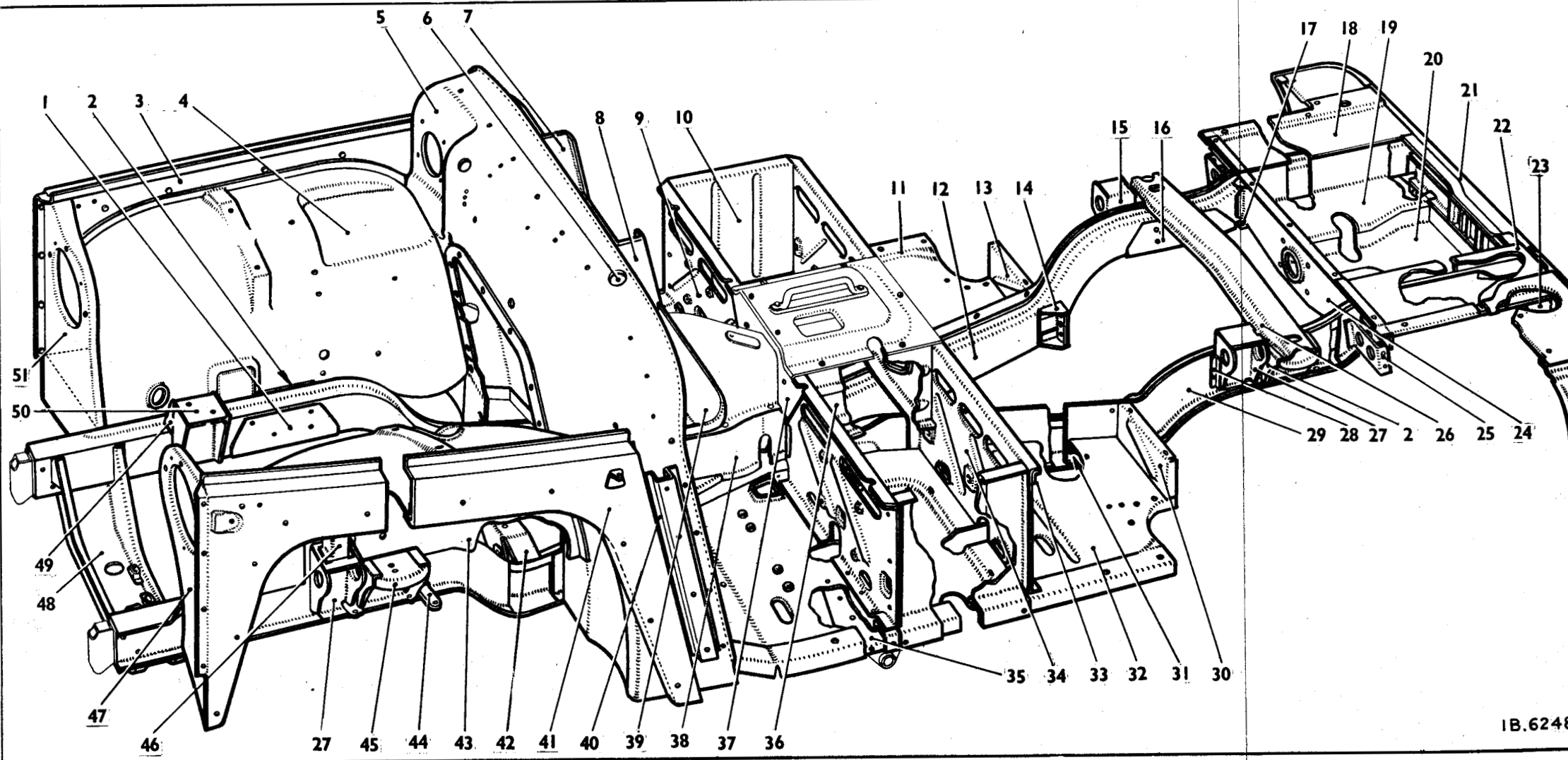
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|----|--|----|--------------------------------|
| 1 | Front wheel suspension reinforcement, R.H. | 18 | Rear floor s |
| 2 | Bump stop bracket, R.H. | 19 | Rear floor w |
| 3 | Side valance panel, R.H. | 20 | Rear floor w |
| 4 | Front wheel arch, R.H. | 21 | Rear cross-m |
| 5 | Dash panel | 22 | Rear floor s |
| 6 | Machine gun mounting pintle support | 23 | Fuel tank pa |
| 7 | Instrument panel bracket, R.H. | 24 | Rear floor c |
| 8 | Instrument panel bracket, L.H. | 25 | Fuel tank gu |
| 9 | Battery compartment front panel | 26 | Rear axle bu |
| 10 | Battery compartment side panel | 27 | Shock absorb |
| 11 | Front floor panel, R.H. | 28 | Rear shock ai
reinforcemen |
| 12 | Chassis frame side-member, R.H. | 29 | Chassis frame |
| 13 | Rear seat heel panel bracket, R.H. | 30 | Rear seat hee |
| 14 | Rear axle support bracket, R.H. | 31 | Floor support |
| 15 | Shock absorber bracket, R.H. | 32 | Front floor p |
| 16 | Rear wheel suspension reinforcement, R.H. | 33 | Battery compe
stiffener - 1 |
| 17 | Fuel tank front support bracket | 34 | Battery compe
rear panel |
| | | 35 | Jacking brack
reinforcement |



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|----|---|----|--|
| 9 | Rear floor side panel, R.H. | 36 | Battery compartment inner panel, L.H. |
| 10 | Rear floor well side panel, R.H. | 37 | Battery compartment stiffener - front |
| 11 | Rear floor well centre panel | 38 | Gearbox side cover, L.H. |
| 12 | Rear cross-member | 39 | Dash tray panel |
| 13 | Rear floor side panel, L.H. | 40 | Attachment member, L.H. |
| 14 | Fuel tank pad bracket | 41 | Side valance panel, L.H. |
| 15 | Rear floor cross-member | 42 | Rear engine mounting bracket, L.H. |
| 16 | Fuel tank guard bracket, L.H. | 43 | Front wheel arch, L.H. |
| 17 | Rear axle buffer cross-member | 44 | Front brake hose bracket |
| 18 | Shock absorber bracket, L.H. | 45 | Bump stop bracket, L.H. |
| 19 | Rear shock absorber bracket reinforcement | 46 | Front wing stay |
| 20 | Chassis frame side-member, L.H. | 47 | Headlamp support, L.H. |
| 21 | Rear seat heel panel bracket, L.H. | 48 | Front cross-member |
| 22 | Floor support angle - rear | 49 | Front engine mounting to chassis bracket, R.H. |
| 23 | Front floor panel, L.H. | 50 | Front engine mounting bracket |
| 24 | Battery compartment stiffener - rear | 51 | Headlamp support, R.H. |
| 25 | Battery compartment rear panel | | |
| 26 | Jacking bracket reinforcement, L.H. | | |
| 27 | | | |
| 28 | | | |
| 29 | | | |
| 30 | | | |
| 31 | | | |
| 32 | | | |
| 33 | | | |
| 34 | | | |
| 35 | | | |

Fig 148 Chassis frame and floor assembly



- 1 Front wheel suspension reinforcement, R.H.
- 2 Bump stop bracket, R.H.
- 3 Side valance panel, R.H.
- 4 Front wheel arch, R.H.
- 5 Dash panel
- 6 Machine gun mounting

- 18 Rear floor side panel, R.H.
- 19 Rear floor well side panel, R.H.
- 20 Rear floor well centre panel
- 21 Rear cross-member
- 22 Rear floor side panel, L.H.
- 23 Fuel tank pad bracket
- 24 Rear floor cross-member

- 36 Battery compartment inner panel, L.H.
- 37 Battery compartment stiffener front
- 38 Gearbox side cover, L.H.
- 39 Dash tray panel
- 40 Attachment member, L.H.