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SPECIFICATION ARMY(AUST) 47
FOR
TRUCK, CHASSIS, FIRE TENDER, 3/4 TON
4 x 4, F.S. LAND ROVER, SERIES 2A, 100 INCH W.B.

ISSUE 29

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Design Endorsed
20 MAY 69

Approved for Production/
Procurement
20 MAY 69

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MASTER GENERAL OF THE ORDNANCE

1. SCOPE

This Specification covers a Truck, Chassis, Fire Tender, $\frac{3}{4}$ Ton, G.S. Land Rover, Series 2A, 109 inch Wheel Base (WB).

2. APPLICABLE DOCUMENTS

Reference is necessary to the latest issue of each of the following documents.

2.1 Specifications

| | |
|---------------|---|
| DEF(AUST)47 | Identification Marking of Service Equipment. |
| DEF(AUST)89 | Battery, Storage (Lead Acid and Alkaline Types). |
| DEF(AUST)101A | Tractor-Trailer and Tractor Semi-Trailer, Electrical Inter-Connections. |
| DEF(AUST)135 | CONNECTOR, Plug, Electrical and Connector Receptacle, Electrical (12 pin, Trailer, Connection). |
| DEF(AUST)172 | Permissible Limits of Radio Frequency Interference. |
| DEF(AUST)184 | Cloth, Duck Cotton-Polyester, Corespun. |
| DEF(AUST)206 | Handbook of Liquid Fuels; Lubricants and Allied Products. |
| DEF(AUST)1000 | Requirements for Packaging Stores for the Services. |

These Specifications are available from the Manager, Central Drawing Office, Department of Supply, Private Bag No.5, P.O. ASCOT VALE, Victoria, 3032.

| | |
|---------------|--|
| ARMY(AUST)10 | General Specification to Govern the Technical Data to be Supplied by Contractors for 'B' Vehicles. |
| ARMY(AUST)64 | Plugs and Receptacles, 12 pin. |
| ARMY(AUST)921 | Extinguisher Fire Bromochlorodifluoromethane 3 lb. Stored Pressure Regulated Discharge Type. |

These Specifications are available from the Chief Superintendent, Army Design Establishment, Private Bag No.12, P.O. ASCOT VALE, Victoria, 3032.

2.2 Standards

| | |
|---------|---|
| AS C300 | Battery Terminals and Terminal Lugs. |
| AS K185 | Colours for Specific Purposes. |
| AS L8 | Vinyl Coated Cotton Fabrics for Upholstery. |
| AS A137 | Portable Fire Extinguisher, Dry Chemical Type. |
| BS 1856 | General Requirements for Metal-Arc Welding of Mild Steel. |
| BS 3119 | Method of Test for Flameproof Materials. |
| BS 3120 | Performance Requirements for Flameproof Clothing. |

These Standards are available from the Standards Association of Australia in all capital cities.

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2. (Contd)

2.3 Drawings

| | |
|-------------------|--|
| ADE(M) 26 | Sign Vehicle Bridge International. |
| ADE(V) 5-16 | Registration Plate, Mounting Holes. |
| ADE(V) 32-1 | Guard. Brush, Front. |
| ADE(V) 37 Series | Drawing Schedule Chassis Truck $\frac{3}{4}$ Ton GS, Fire Engine, Land Rover Series 2 and 2A, 109 inch WB. |
| ADE(V) 43-1 | Unit/Formation Sign Holder. |
| ADE(V) 44-244 | Front Wing Assembly, Left Hand. |
| ADE(V) 44-255 | Front Wing Assembly, Right Hand. |
| ADE(V) 44-460 | Mud Flaps, Rear Installation. |
| ADE(V) 44-540 | Mirror Assembly, Rear View, L.H. Installation. |
| ADE(V) 110-8D | Front Exhaust System. |
| ADE(V) 110-9B | Bracket. |
| ADE(V) 110-10B | Bracket. |
| ADE(V) 110-11 | Installation, NATO SOCKET. |
| ADE(V) 110-12A | Clamp Saddle. |
| ADE(V) 110-15 | Installation-Hydraulic Steering Damper, Land Rover. |
| ADE(V) 142-1D | Power Take-off Control Assembly. |
| ADE(V) 142-2B | Bracket Support. |
| ADE(V) 142-3A | Arm Connecting. |
| ADE(V) 142-4B | Link Connecting. |
| ADE(V) 142-5C | Bracket P.T.O. Control. |
| ADE(V) 142-6B | Rod P.T.O. Control. |
| ADE(V) 142-7C | Lever P.T.O. Control. |
| ADE(X) 644-Series | EMEI Truck $\frac{3}{4}$ Ton GS. Fire Engine. |
| FV 157949 | Light, Inspection. |
| ADE(V)211-2 | Light Hook. |
| PMC 0112009 | Installation of Exhaust. |

These Drawings are available from the Chief Superintendent, Army Design Establishment, Private Bag No.12, P.O. ASCOT VALE, Victoria, 3032.

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2. (contd)

2.4 Publications

2.4.1 AMVSC Draft Regulations.

These Regulations are available for viewing at the Department of Shipping and Transport, 497 Collins Street, MELBOURNE, 3000.

2.4.2 Tyre and Rim Association Standards Manual.

This publication is available from the Tyre and Rim Association of Australia, 192 King Street, MELBOURNE, 3000.

3. DEFINITIONS

3.1 "MOBEI" shall mean "Manufacturer's Optional Extra Equipment Item".

3.2 "Inspecting Officer" shall be the Director of Army Inspection or his representative.

3.3 "Approved" shall mean approved by the Inspecting Officer.

3.4 "Chassis" shall mean Truck, Chassis, Fire Tender, $\frac{3}{4}$ Ton, GS, Land Rover, Series 2A, 109 inch Wheel Base.

4. REQUIREMENTS

4.1 General

The chassis shall be that used in vehicles sold on the Australian commercial market as the 2 $\frac{1}{4}$ litre petrol engine driven, Land Rover, Series 2 and 2A, 109 inch, WB modified as detailed in this Specification.

4.1.1 The chassis shall comply in all respects with AMVSC Draft Regulations.

4.1.2 Interchangeability of parts, including spares, shall be maintained throughout the contract. Alternative parts shall not be introduced without prior approval of the Inspecting Officer. The vehicle components supplied shall be as standard as possible with those of Land Rovers already in service, and shall include the component modification detailed in Para 4.3.8.

4.2 Chassis Data

The chassis shall be modified as follows:

4.2.1 The chassis shall be fitted with spring hanger brackets, etc. which will allow the later fitting of 9.00 by 16 tyres.

4.2.1.1 The wheels shall be one piece, drop centre detachable discs incorporating a 5.50F(E) rim as specified in the Tyre and Rim Association Standards Manual.

4.2 (contd)

- 4.2.1.2 The tyres shall be light truck and utility tyres 7.50 by 16 "Tyrex" cord or approved equivalent, 6 ply rating, with butyl tubes. The tyre treads shall be non-directional cross-country pattern, eg. Goodyear "All Service", Olympic "Pattern 31" or similar approved pattern and make.
- 4.2.1.3 The four wheels fitted to the axles of the chassis and the spare wheel (see para 4.3.3), shall be as detailed in para 4.2.1.1 and 4.2.1.2.
- 4.2.2 A second identical fuel tank shall be fitted in the chassis, on the L.H. side immediately below the passenger seat. The filling point shall be brought to the outside of the chassis on the L.H. side, similar to the standard R.H. tank. A change-over cock shall be mounted on the panel adjacent to the hand brake lever. It shall be possible to dip the tanks.
- 4.2.3 The engine shall be fitted with the Rover eight blade fan and an engine tie rod Rover Part No.531881.
- 4.2.4 The front springs shall be Rover Part No.265627 and the rear springs shall be Rover Part No.272961. The shock absorbers fitted, shall suit the extended spring hanger brackets.
- 4.2.5 Front lifting and towing rings conforming to MOEEM No.81085 shall be fitted to the chassis.
- 4.2.6 A rotatable and lockable towing hook, to Drawing No. ADE(V)211-2 shall be fitted to the chassis.
- 4.2.7 The standard front bumper shall be fitted to the chassis.
- 4.2.8 The rear cross-member No.7 shall be replaced by one of shallower section, to give the maximum possible angle of departure. The normal power take-off aperture may be deleted.
- 4.2.9 A 3/8-inch diameter stud, 2-inches long and a captive wing nut, both made of brass, shall be mounted on the rear chassis member adjacent to the towing hook, to act as a ground earth terminal.
- 4.2.10 An engine oil cooler MOEEM 81087 and modified to EMEI drawings ADE(X)644-2C and ADE(V)37-35B shall be fitted to the chassis.
- 4.2.11 The chassis No.6 cross-member shall be re-designed and relocated as shown in Drawings ADE(V)37-12C, 13 (1 and 2) and 14C.
- 4.2.12 The chassis No.5 cross-member shall be modified as detailed in Drawing ADE(V)37-32B.
- 4.2.13 A standard power take-off shaft and flange shall be installed at the transfer case. The control shall be modified as shown on Drawings ADE(V)142-1D and ADE(V)37-11C.

7.

4.2 (contd)

- 4.2.14 The engine exhaust system shall be modified as shown in Drawing ADE(V)110-8D per MOEET No.0112004 including apron panels modified as detailed in Drawings ADE(V)37-53
-52
- 4.2.15 The cab base unit shall be modified, as shown on Drawings ADE(V)37-7, 8,9 and 10 to provide a cover and access to the Coventry Climax water ring primer (Fitted by body manufacturer).
- 4.2.16 The front and rear axles shall have a heavy duty differential assembly and induction hardened axle shafts as fitted in British War Department Land Rovers.
- 4.2.17 The transfer case and gearbox oil level plugs shall be of the tapered thread type.
- 4.2.18 Rubber boots shall be fitted to the front and rear propellor shafts to cover the splines.
- 4.2.19 Two 11/16 inch diameter holes shall be drilled in the radiator grille assembly to allow easy removal of the bolts fixing the steering relay housing to the chassis frame.
- 4.2.20 A steering damper shall be fitted in accordance with Drawing No. ADE(V)110-15. No other damping arrangement shall be approved.

4.3 Body

- 4.3.1 The Covers, Canopy shall be manufactured from Corespun Polyester bottom 8 oz sq yd loom state proofed and colour dark green. The cloth shall have flame resistance proofing in accordance with BS3119 and BS3120.
- 4.3.1.1 The Cordage shall be Polyester braided $\frac{1}{4}$ -inch (in) diameter dyed in core coloured olive drab.
- 4.3.2 The standard front end sheet metal including the Front Wings (to Drawings ADE(V)44-244 and 255) shall be fitted up to and including the windscreen and dash panel. The driving compartment floor panels and seats shall be fitted. The right and left hand doors, cab hood-stocks, and door channels for a soft top driving cabin shall be fitted.
- 4.3.3 Brackets shall be fitted to allow stowage of the spare wheel on the bonnet. The bracket shall be suitable for the use of a 7.50 by 16 tyre and wheel. The Bonnet shall be reinforced as shown in Drawing ADE(V)37-38. The bonnet spare wheel fittings shall also include rubber pads for extra support.
- 4.3.4 When lowered to the horizontal position, the windscreen shall be secured, by means of a 1 inch wide nylon webbing strap. The strap shall be rivetted or stitched to the handle of the spare wheel carrier and an additional 'D' fitted to the centre top inside of the windscreen frame. The windscreen glass shall conform to MOEET E1358.
- 4.3.5 Flyscreens conforming to MOEET No.E1106 shall be fitted to the dash vents of the chassis.

8.

4.3 (cont'd)

4.3.6 The side valances shall be deleted.

4.3.7 The bonnet shall be secured by side fastening catches.

4.3.8 The Front Seat Squabs shall be modified as follows:

The three drive screws, cup washers, and the wire stretcher shall be removed from each squab and replaced by five No.6 by $\frac{1}{2}$ inch, csk raised head, self-tapping screws (Parker Kalon type A or approved equivalent), three in the existing holes and two midway between them. All screws shall have cup washers inserted under their heads.

4.3.9 Cabin seating shall consist of a bench-type seat, providing seating for a driver and two passengers. The seating shall be robust, durable and provide maximum comfort: the upholstery shall be Polymer of Vinyl-Chloride (PVC) coated fabric to AS L8 Grade W2, colour Deep Bronze Green, in accordance with ASK185.

4.4 Electrical Equipment

4.4.1 An earthed 12 volt electrical system suppressed (in accordance with DEF(AUST) 172 Class 'B') to prevent interference with commercial radio and television in the vicinity, shall be fitted to the chassis.

4.4.2 All electrical components, wiring and harness shall be suitable for continual use at any temperature within the range of 5^oF to 125^oF and 100 percent (%) humidity conditions between 32^oF and 95^oF. Full wiring as for completed vehicle is required. Where the wiring cannot be connected because the body is not fitted, the wiring shall be rolled and taped to the chassis.

4.4.3 The instrument panel shall be illuminated by separately controlled lighting adequate for use by night under black-out conditions.

4.4.4 A socket 2 pin Lucas, Part No.770419 (or approved equivalent) shall be fitted in an approved position in the driving compartment as a means of connecting an extension light (Reference Para 4.4.5) to the electrical system. This circuit shall be unswitched.

4.4.5 An inspection extension light conforming to Drawing No. FV157949, complete with 13 ft of twin cable and 2 pin plug to suit the dashboard socket (Reference Para 4.4.4) shall be provided.

4.4.6 Flashing type direction indicators shall be fitted, except that the flasher unit shall be capable of operating satisfactorily with two or three lamps flashing. The flasher unit shall be HELLA Part No.3036, 2+1, 21 watt, 12 volt, (or approved equivalent). A visual warning device shall be fitted for trailer and vehicle.

4.4 (cont'd)

4.4.7 A black-out headlight, Rover Part No. RA34 (or approved equivalent), shall be fitted at the front RH side of the vehicle. A convoy light, Rover Part No.268616 or approved equivalent, interconnected with the black-out headlight shall be fitted in an approved location at the rear of the vehicle.

4.4.8 A master control switch mounted on the dashboard shall control either the standard or black-out lighting as detailed below:

| <u>Standard Lighting</u> | <u>Black-out Lighting</u> |
|--------------------------|---------------------------|
| Headlights | Black-out Headlight |
| Parking Lights | Convoy Light |
| Tail Lights | Dash Light |
| Stop Lights | Map Reading Light |
| Turn Indicators | Dashboard Plug Socket |
| Dash Light | |
| Map Reading Light | |
| Dashboard Plug Socket | |

- 4.4.9 All electrical circuits shall be suitably protected by fuzes or circuit breakers grouped together with a centralized junction box or terminal strip. The box or terminal strip shall be located in a readily accesible position. The identity of each fuze or circuit breaker shall be clearly marked.
- 4.4.10 The rear turn indicator lights and tail lights shall be protected by approved metal guards.
- 4.4.11 A map reading light, Rover Part No.268616 (or approved equivalent), shall be mounted on the dashboard in ~~front~~ of the passenger seat.
- 4.4.12 The connector, Receptacle, Electrical (12 pin trailer connection) in accordance with DEF(AUST)135 shall be fitted at the rear of the vehicle. The location and circuit arrangement shall be in accordance with the applicable clauses of DEF(AUST)101A. The receptacle cover shall be stamped "12V" in $\frac{1}{2}$ inch letters.
- 4.4.13 The ignition switch shall be the non-locking type and shall incorporate the starter switch.

10.

4.4 (contd)

- 4.4.14 The battery in accordance with DNF(AUST)89, shall have a minimum rating of 61 ampere hours and shall be of the concealed link type, with terminal lugs and cable terminals (clamp type) in accordance with AS C300. The battery retaining cover inside length shall be 12.1/8 inches in lieu of 12.13/16 inches as normally issued with the vehicle.
- 4.4.15 The windscreen wipers conforming to MOEEI No. E1114 shall be fitted to the chassis.
- 4.4.16 The dip switch shall be relocated between the clutch and brake pedals, with the entire switch mechanism inside the vehicle. All wiring on the floor shall be covered by a metal guard.

4.5 Instruments and Controls

In addition to the instruments and controls normally fitted, the following shall be fitted:

- a. Oil pressure gauge conforming to MOEEI No.1389 together with auxiliary panel MOEEI No. E1419.
- b. MPH Speedometer with provision for recording trip miles, conforming to MOEEI No. E1379 together with Instrument panel MOEEI No.E1441.
- c. Two-way switch to allow fuel gauge to read from either tank.

4.6 Fitting and Accessories

- 4.6.1 Two approved, adjustable type, rear vision mirrors shall be mounted, one on either side of the vehicle, in such a position that the driver can view the mirrors without leaving the driving seat. It shall be possible to fold the mirrors and their supporting arms so that the items do not project beyond the vehicle silhouette.
- 4.6.2 Bolt holes shall be drilled in approved locations to suit the standard Army Registration Plate, (Drawing No.ADE(V)5-15).
- 4.6.3 The starting handle shall be the only item supplied from the commercial tool kit.
- 4.6.4 One plate, to Rover Part No.266818, shall be fitted to the front nearside of the vehicle.
- 4.6.5 Two Unit/Formation sign holders in accordance with Drawing No.ADE(V)43-1 shall be fitted in approved locations. Two extra holders shall be supplied for later fitting (see para 6.2).
- 4.6.6 One holder and graduated dipstick shall be supplied with each fuel tank. Each dipstick shall have a flat surface to facilitate reading of the fuel level.
- 4.6.7 One fire extinguisher, 3 lb Bromochlorodifluoromethane (B.C.F) to Standards AS A137 shall be fitted in a vertical position on the scuttle, on the passenger's side and towards the centre of the vehicle.

4.6 (contd)

- 4.6.8 Windscreen washers to MOBEI No.1444 (Flexdrive or approved equivalent) shall be fitted.
- 4.6.9 Mud Flaps to Drawing No.ADE(V)44-460 or Rover Part No.320590 shall be fitted.
- 4.6.10 Metal instruction plates with photo-processed lettering shall be fitted and suitably located to indicate the information necessary for the safe and proper operation of all switches and controls provided.
- 4.6.10.1 One plate shall include tyre pressures and the grades of Army Lubricants to be used in the various assemblies and shall be as follows:

| | | | |
|--|-----------------------------------|---------------------|------------|
| <u>SERVICE DATA:</u> TRUCK - CHASSIS FIRE TENDER | | | |
| 3/4 Ton, 4 x 4, GS, Land Rover Series 2A, 109 inch W.B. | | | |
| <u>TYPE INFLATION PRESSURES:</u> | Highway | Cross Country | Sand |
| Front: | 24 lb | 18 lb | 14 lb |
| Rear: | 46 lb | 30 lb | 22 lb |
| <u>LUBRICATION</u> | (Normal or tropical temperatures) | | |
| Engine | OMD 110 | Axles | OEP 600 |
| Gear Box | OMD 330 | Swivel Pin Housing | OEP 600 |
| Transfer case | OMD 330 | Steering Box | OEP 600 |
| Power take off | OMD 330 | Lubrication Nipples | XG 279 |
| | | Master cyclinders | OX (AUST)8 |

NOTE: XG 279 Grease shall be used in all wheel bearings, water pumps, universal joints and chassis lubrication points as specified in DEF(AUST)206.

- 4.6.10.2 One plate in accordance with Appendix 'A', shall be located above instrument panel.

4.6 (contd)

- 4.6.10.3 A plate, located under the bonnet on the fire wall, shall indicate the following information:

| | |
|-------------------|---|
| Nomenclature: | Truck, Chassis, Fire Tender, $\frac{3}{4}$ Ton, G.S, Land Rover. |
| Census No.: | (As applicable) |
| Chassis No.: | (As applicable) |
| Manufacturer: | Rover Australia Pty. Ltd. |
| Contract No.: | (As applicable) |
| Date of Delivery: | (As applicable) |

- 4.6.10.4 The following items shall be branded in approved positions with a broad arrow as defined in DEF(AUST)47.

| Item | Type | Size of Lettering |
|-------------------|--------------------|-------------------|
| Fire Extinguisher | Stamp | 1/2 inch |
| Tyres | or Etch Moulded | 1 to 2 inch |

4.7 Materials

Where the material is not specified it shall comply with the relevant Australian or British Standard Specification where such exists, or in their absence to a standard Specification approved by the Inspecting Officer.

4.8 Workmanship

- 4.8.1 Workmanship shall be in accordance with the best trade practice, and shall be to the satisfaction of the Inspecting Officer.
- 4.8.2 The preparation for, and the application of all metallic arc welding shall be strictly in accordance with the BS 1856.
- 4.8.3 The preparation of surfaces for painting, and the painting process shall be the standard commercial processes used for Land Rover vehicles except in so far as the finishing colour shall be Signal Red, Full Gloss (in accordance with ASK185).
- 4.8.3.1 The galvanized fittings normally supplied on the commercial vehicle shall be subjected to an extra pickling process prior to assembly.

The fittings shall then be painted as specified above.

4.9 Tendering

- 4.9.1 The Tenderer shall submit **samples** of all components and all materials designated as approved components or materials. Alternatively, the Tenderer shall state the source of supply in sufficient detail in order that the components and materials can be readily checked or recognised.

13.

4.9 (contd)

- 4.9.2 Should the Tenderer desire to depart in any manner from the requirements of this Specification, such manner of departure shall be clearly shown in the tender, together with a statement of the advantages to be gained by its adoption.
- 4.9.3 Warranty and after sales service shall be stated by the Tenderer in his Tender.
- 4.9.4 Tenders, which are not accompanied by the information asked for above, may be rejected without further consideration.

5. QUALITY ASSURANCE PROVISIONS

5.1 Inspection: The Inspecting Officer may witness any or all of the Contractor's tests or himself perform any tests or inspection necessary to ensure that the stores comply with this Specification.

5.2 Tests

- 5.2.1 The Contractor shall be responsible for carrying out any tests required by the Inspecting Officer to ensure that the Stores are in accordance with this Specification.
- 5.2.2 The Contractor shall be responsible for providing any test equipment and facilities, including accommodation, that may be required by the Inspecting Officer for the purpose of ensuring that the stores comply with this Specification.

6. PREPARATION FOR DELIVERY

- 6.1 Packaging, shall be designated in the tender schedule or official order.
- 6.2 The following items, which cannot be fitted by reason of the lack of a body, shall be boxed in an approved waterproof container, firmly secured to the chassis, and delivered with each vehicle.

Number plate light

Tail lights, two off

Flashing indicator lights, rear, two off

Convoy light

Tail Lamp Shroud

Unit/Formation Sign Holders, two off

7. NOTES

7.1 Intended Use

These vehicles when fitted with bodies to Army(Aust)48 will be used for fighting fires and the training of firemen in Army Units.

7. (contd)

7.2 Named Trade Items

Named trade items called upon in this Specification and reference documents may be replaced by an approved equivalent.

7.3 Ordering Data

Procurement Documents should specify the following:

7.3.1 Title, number and date of this Specification.

7.3.2 Details of the type of packaging to be used by the Contractor.

7.4 Amendments to Specification

Amendments to any section of this Specification can only be effected by means of the "Change Request" Procedure. Should the Contractor desire amendments, these will be passed, on the correct form through the Inspecting Officer to the Director of Equipment, Army Headquarters. The amendments become effective only on the issue of a Change Authority by the Director of Equipment on behalf of the Master General of the Ordnance.

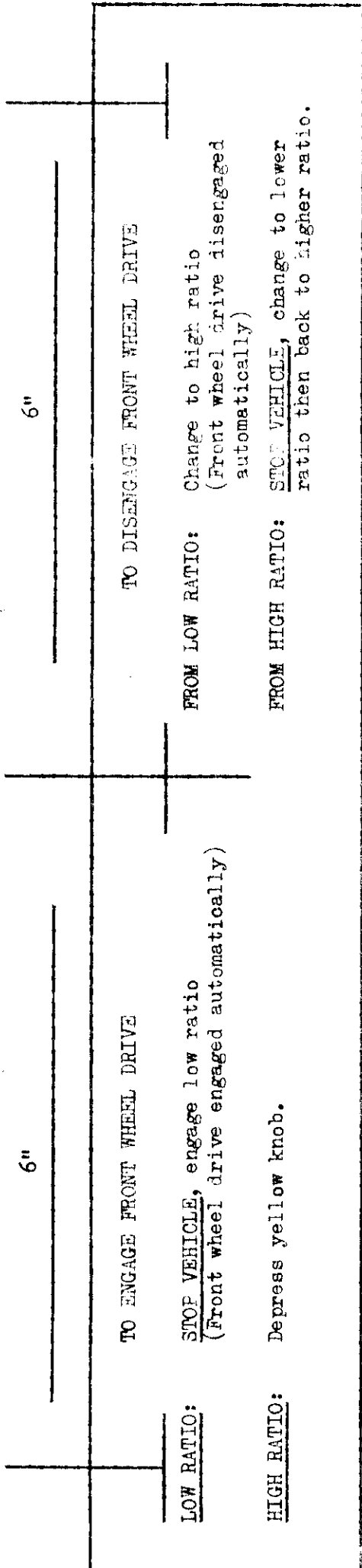
7.5 Adherence to Specification

The approving Authority for this Specification is the Director of Equipment on behalf of the Master General of the Ordnance, Army Headquarters. No departure from this Specification or associated Specifications will be approved by the Director of Equipment, unless by reason of the acceptance of a tender, full details of approved alternatives are incorporated in an eventual contract.

* * * * *

Copies of this specification may be obtained from:

Chief Superintendent,
Army Design Establishment,
Private Bag No.12,
P.O. ASCOT VALE, Victoria, 3032.



LAYOUT OF INSTRUCTION PLATE 12½ inch by 1¼ inch.

LOCATION: On instrument panel above instruments and secured by 3 existing screws at 6-inch centres.