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SPECIFICATION ARMY(AUST) 85
FOR
TRUCK, CARRYALL, $\frac{1}{2}$ TON, G.S. TOPOGRAPHICAL
SURVEY, LANDROVER, SERIES 2A, 109 INCH W.B.

ISSUE 14

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Design Endorsed:

8 Dec 67

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3.

1. SCOPE

This Specification covers a Truck, Carryall, 3/4 ton, GS, Topographical Survey, Land Rover Series 2A, 109 inch wheel base.

2. APPLICABLE DOCUMENTS

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

2.1 Specifications

- DEF(AUST) 29 - Extinguisher, Fire, Vaporizing Liquid (Carbon Tetrachloride) 1 Quart.
- DEF(AUST) 47 - Identification Marking of Service Equipment.
- DEF(AUST) 101 - Tractor-Trailer and Tractor Semi-Trailer, Electrical Inter-Connections.
- DEF(AUST) 135 - Connector, Plug, Electrical and Connector, Receptacle (12 Pin, Trailer Connection).
- DEF(AUST) 206 - Handbook of Liquid Fuels, Lubricants and Allied Products.

These specifications are available from the Manager, Central Drawing Office, Department of Supply, Private Bag No.5, P.O. Ascot Vale, Victoria.

- Army(Aust) 10 - General Specification to Govern the Technical Data to be supplied by Contractors of 'B' Vehicles.
- Army(Aust) 139 - Enamel, Lustreless, Olive Drab.

These specifications are available from the Chief Superintendent, Army Design Establishment, Private Bag No.12, P.O. Ascot Vale, Victoria.

2.2 Standards

- BS 1856 - General Requirements for the Metal-Arc Welding of Mild Steel.
- AS C300 - Battery Terminals and Terminal Lugs (for Lead-Acid Batteries).
- AS L8 - Vinyl-coated Cotton Fabrics for Upholstery.

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

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2.3 Drawings

- ADE(V)112 Series - Truck, Carryall, $\frac{3}{4}$ Ton GS Land Rover Series 2A, Topographical Survey.
- ADE(V)5-16 - Registration Plate, Mounting Holes.
- ADE(V) -467 - Exhaust Silencer Rework.
- ADE(V)110-38 - Pipe Exhaust - Assy.

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

2.4 Publications

AMVSC Draft Regulations

These regulations are available from the Department of Shipping and Transport, 497 Collins Street, Melbourne, C.1., Victoria.

Tyre and Rim Standards Manual of the Tyre and Rim Association, Australia
This publication is available from the Secretary, Tyre and Rim Association of Australia, 192 King Street, Melbourne.

3. DEFINITIONS

- 3.1 "Inspecting Officer" shall mean the Director of Army Inspection or his representative.
- 3.2 "MOEEI" shall mean manufacturer's optional extra equipment item.
- 3.3 "Approved" shall mean approved by the Inspecting Officer.

4. REQUIREMENTS

4.1 General

- 4.1.1 The chassis shall be the Australian commercial version of the 2 $\frac{1}{4}$ litre, petrol driven engine, Land Rover Series 2A, 109 inch wheel base, modified as detailed in this Specification and the ADE(V)112 series of drawings.
- 4.1.2 The vehicle shall comply in all respects with AMVSC Draft Regulations.

5.

4.1 (contd)

- 4.1.3 Interchangeability of parts and spares for the vehicle shall be maintained throughout the contract. Alternative parts shall not be introduced without prior approval of the Inspecting Officer.
- 4.1.4 The vehicle components shall be as standard as possible with the components of the Land Rover vehicles already in service.

4.2 Chassis Data

The chassis shall be modified as follows:

- 4.2.1 The wheels shall be of one piece, drop centre, detachable disc construction and shall have a 5.50 F(H) rim as specified in the Tyre and Rim Standards Manual of the Tyre and Rim Association, Australia. The wheels shall be fitted with light truck and utility tyres, 7.50 by 16 "Tyrex" cord (or approved equivalent), 6 ply rating, fitted 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. Five wheels complete with tyre and tube shall be supplied with each vehicle.
- 4.2.2 Approved holding devices shall be fitted to the vehicle for the stowage of the spare wheel on the bonnet and in the cargo compartment. The spare wheel fittings on the bonnet shall include rubber pads capable of supporting the spare wheel.
- 4.2.3 A second fuel tank, identical with the standard tank, shall be fitted in the chassis on the left hand side of the vehicle immediately below the passenger seat. The filling point shall be brought to the outside of the left hand side of the vehicle. A change-over cock shall be mounted on the panel adjacent to the hand brake lever. The fuel level in each tank shall be capable of being measured with a dip stick and by means of the fuel gauge (see para 4.5.7).
- 4.2.4 The engine shall be fitted with the Rover eight blade fan and engine tie rod conforming to MOEEL No. 525205.
- 4.2.5 The front springs shall be Rover part No. 265627 and the rear springs shall be Rover part No. 272967. Extended spring hanger brackets and shock absorbers which will allow the later fitting of 9.00 x 16 tyres shall be fitted to the vehicle.
- 4.2.6 Front lifting and towing rings conforming to MOEEL No. E1085 and a rotatable and lockable towing hook in accordance with drawing No. FV332151 shall be fitted to the vehicle.

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- 4.2.7 A hand operated Tirfor winch, model No.T13, of a direct pull of not less than 9360 lb (or an approved equivalent) shall be fitted to the front of the vehicle. The winch cable shall be at least 120 ft long and have a breaking strength of at least 8000 lb.
- 4.2.8 The rear cross member shall be constructed to drawing No.ADE(V)112-4/3 (No.8 cross member).
- 4.2.9 Two approved robust quarter bumpers shall be fitted to the rear of the vehicle and shall extend beyond the rearmost part of the tow hook. Each quarter bumper shall incorporate stowage for one 4½ gallon jerrican (see also para 4.3.11).
- 4.2.10 A brush guard shall be fitted to the vehicle. The radiator grille panel shall have two 11/16 inch diameter holes to enable easy removal of the two bolts fixing the steering relay housing. The vehicle shall be fitted with guard rails to protect the front and rear fenders.
- 4.2.11 The radiator grille shall be fitted with an approved insect and grass protection mesh.
- 4.2.12 The front and rear axles shall be fitted with heavy duty differential assemblies and induction hardened axle shafts as fitted in the British War Department Land Rovers.
- 4.2.13 The transfer case and gearbox oil level plugs shall be of the tapered thread type.
- 4.2.14 A quadrant hand throttle conforming to MOEEI No.E1109 shall be fitted to the vehicle.
- 4.2.15 A rubber boot shall be fitted to both the front and rear propellor shafts. Each boot shall cover the propellor shaft splines.
- 4.2.16 To protect the tie rods, sump and petrol tanks against damage, approved protection plates shall be fitted to the vehicle.
- 4.2.17 The exhaust pipe shall be in accordance with drawing No. ADE(V)110-38. To give clearance on a wheel fitted with 9.00 by 16 tyre, the exhaust tail pipe shall be shaped in accordance with drawing No.ADE(V)44-467.

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4 (contd)

4.3. Body

- 4.3.1 The body shall be integral with the cab and shall be similar to Rover Part No. E1093, "Hard Top with Side Windows". A sliding window shall be fitted on the left hand and right hand side of the body.
- 4.3.2 A door with a fixed window shall be fitted to the rear of the body. The door shall open towards the right hand side of the vehicle.
- 4.3.3 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. An additional 'D' shall be fitted to the centre of the inside of the windscreen frame near the top of the frame.
- 4.3.4 The windscreen glass shall conform to MOEEI No. E1080.
- 4.3.5 Dash vent fly screens conforming to MOEEI No. E1106 shall be fitted to the vehicle.
- 4.3.6 A centre seat shall be fitted in the driving compartment. A tool box shall be fitted beneath the centre seat.
- 4.3.7 A tropic roof conforming to Rover part No. E1095, incorporating an approved method for preventing branches and vines from entering the forward opening shall be fitted to the vehicle.
- 4.3.8 The bonnet shall be secured by side fastening catches.
- 4.3.9 Each side of the cargo compartment shall be fitted with a seat conforming to MOEEI No. E1084.
- 4.3.10 All seats fitted to the vehicle shall be covered with a tropic proofed PVC coated fabric to AS L8, Grade W2. The colour of each seat shall be Lustreless Olive Drab to Army (Aust) 139.
- 4.3.11 A combined spare wheel and jerrican stowage fitting shall be fitted in the cargo compartment.

8.

4.3 (contd)

- 4.3.12 The Vehicle shall be fitted with suitable means for stowage of the following equipment:

One set of wheel chains (contained in a bag size 15 inch by 12 inch by 9 inch - approximate weight 56 lb).

One tow rope (space required is 18 inch by 18 inch by 4 inch).

One starting handle.

- 4.3.13 Approved map pockets shall be fitted on the inside of the driver's door and the passenger's door.

- 4.3.14 The side valances shall be deleted.

4.4 Electrical Equipment

- 4.4.1 To prevent interference with commercial radio and television, the standard 12 Volt (V) electrical system shall be modified in accordance with Appendix 'A'
- 4.4.2 All electrical components, wiring and harness shall be suitable for continual use at all temperatures within the range of 5 degree Fahrenheit (^oF) and 125^oF including, 100 percent (%) relative humidity conditions between 5^oF and 80^oF.
- 4.4.3 The lighting shall comply with the AMVSC Draft Regulations.
- 4.4.4 The flashing direction indicators shall be MOEEL No.1211. The flashing unit shall be Hella part No.91, PM 2/3 by 18 Watt 12V (or approved equivalent). The flashing unit shall still operate satisfactorily with two or three lamps flashing. A driver warning device shall be fitted in the cab of the vehicle.
- 4.4.5 The instrument panel shall be illuminated by separately controlled lighting. The lighting shall be adequate for use at night under "black-out" conditions. Dome lights shall be fitted to the vehicle and shall adequately illuminate both the cab and the rear of the body.
- 4.4.6 A socket, 2 pin Lucas part No.770419 (or approved equivalent), shall be fitted in an approved position in the driving compartment. The circuit for the socket shall be unswitched.

9.

4.4 (contd)

- 4.4.7 A two position switch shall be fitted in the cabin of the vehicle. The switch shall enable the fuel level in each tank to be recorded on the fuel gauge.
- 4.4.8 All electrical circuits shall be suitably protected by fuses or circuit breakers. The fuses and circuit breakers shall be grouped together in a readily accessible position and each fuse and circuit breaker shall be clearly marked.
- 4.4.9 A black-out headlight, Rover part No.RA 34 shall be fitted to the front right hand side of the vehicle. A convoy light, Rover part No.268616 shall be fitted and shall be inter-connected with the black-out headlight.
- 4.4.10 A master control switch shall be mounted on the dashboard. The switch shall separately control the standard lighting and black-out lighting. The lighting shall be grouped as follows:

Standard Lighting

Headlights
 Parking Lights
 Tail Light
 Stop Light
 Turn Indicators
 Dash Light
 Dashboard Plug Socket
 Interior Dome Light

Black-out Lighting

Black-out Headlights
 Convoy
 Dash Light
 Map Reading Light
 Dashboard Plug Socket
 Interior Dome Lights
 (at reduced intensity)

- 4.4.11 The rear turn indicator lights and tail lights shall be protected by metal guards.
- 4.4.12 A map reading light Rover Part No.268616 shall be mounted on the dashboard in front of the passenger's seat.
- 4.4.13 The dip switch shall be located between the clutch and brake pedals. The switch mechanism shall be inside the vehicle and a metal guard shall protect the wiring on the floor.

4.4 (Contd)

- 4.4.14 A 12 pin receptacle in accordance with DEF(AUST)135 shall be fitted to the rear left hand side of the vehicle in accordance with DEF(AUST)101. The receptacle shall be fitted within a radius of $19\frac{1}{2}$ inch from the towing hook.
- 4.4.15 A non-locking type of ignition switch shall be fitted to the vehicle.
- 4.4.16 The battery shall have a minimum rating of 51 ampere/hour and shall be of concealed link type. The battery shall have terminal lugs and cable terminals (clamp type) in accordance with AS C300. The battery retaining cover shall have an inside length of $12.1\frac{1}{8}$ inch.
- 4.4.17 A second battery shall be fitted to the vehicle and shall be identical with the vehicle battery. To facilitate charging of the second battery by the vehicle generator, a change-over switch shall be fitted in the cab on the passenger side. To avoid overloading of either the battery or the generator, the additional charging circuit shall be wired through the regulator and cut-out system.
- 4.4.18 Two windscreen wipers conforming to MOEEI No.E1114 shall be fitted to the vehicle.

4.5 Fittings and Accessories

- 4.5.1 An adjustable, flat, anti-dazzle rear vision mirror shall be fitted to the windscreen frame in the cab. The mirror shall be positioned centrally and shall give the driver a view through the rear window.
- 4.5.2 An adjustable rear vision mirror shall be fitted to the right hand and the left hand side of the vehicle. The right hand mirror shall be positioned so that the driver may adjust it while in the driving position. It shall be possible to fold the mirrors and their supporting arms so they do not project beyond the silhouette of the vehicle.
- 4.5.3 In addition to the normal instruments fitted to the instrument panel of the vehicle, a composite water and oil pressure gauge conforming to MOEEI No.E1100 shall be fitted to the panel.
- 4.5.4 A bracket constructed in accordance with drawing No.ADE(V)44-244 and 255 shall be fitted to the front mudguards of the vehicle to hold the de-ditching tools.
- 4.5.5 A fire extinguisher bracket in accordance with DEF(AUST)29 shall be fitted to the scuttle in a vertical position. The bracket shall be on the passenger's side and towards the centre of the vehicle.

11.

4.5 (contd)

- 4.5.6 The Contractor shall supply a starting handle with each vehicle. The handle shall be suitable for use when a power operated winch is fitted to the vehicle
- 4.5.7 The Contractor shall supply a graduated dipstick and holder with each petrol tank. The indicating face of the dipstick shall have a flat surface.
- 4.5.8 The vehicle shall be fitted with rear mud flaps in accordance with ADE(V)44-460. or an approved equivalent.
- 4.5.9 The holes for the registration plates shall be in accordance with ADE(V)5-16 and shall be located in an approved position.
- 4.5.10 Four Unit/Formation sign holders in accordance with drawing No.ADE(V)43-1 shall be fitted to the vehicle (refer drawing No.ADE(V)112-2).
- 4.5.11 A bridge sign plate conforming to Rover part No.266818 shall be fitted to the front left hand side of the vehicle.
- 4.5.12 The Contractor shall fit the following metal instruction plates. Each plate shall have photo-processed lettering and shall be suitably located on the vehicle.
 - 4.5.12.1 One plate in accordance with Appendix 'B' shall be located in the left hand side glove box.
 - 4.5.12.2 One plate, in accordance with Appendix 'C' shall be located above the instrument panel.
 - 4.5.12.3 A plate shall be located in the left hand glove box and shall have the following informations

Nomenclature:	TRUCK, CARRYALL, 3/4 TON, GS, Topographical Survey, Land Rover, Series 2A, 109 inch W.B.
Census No:	As Applicable
Chassis No:	As Applicable
Manufacturer:	ROVER Australia Pty. Ltd.
Contract No.:	As Applicable
Date of Delivery:	As Applicable

4.5 (contd)

- 4.5.13 Where "As Applicable" is used in para 4.5.12.3 the Contractor shall insert the relevant information.
- 4.5.14 The tyres shall be branded in accordance with DEF(AUST) 47. The broad arrow shall be moulded in the tyre and the length of the arrow shall be 1 to 2 inch high.

4.6 Materials

All materials shall be as specified. Where the material is not specified, then it shall comply with the relevant Australian or British Standard where such exist or, in their absence, to an approved standard.

4.7 Workmanship

- 4.7.1 Workmanship shall be in accordance with the best trade practice and shall be to the satisfaction of the Inspecting Officer.
- 4.7.2 The preparation for, and the application of all metallic arc welding shall be in accordance with BS 1856.
- 4.7.3 The preparation of surfaces for painting and the painting process shall be the standard commercial process for Land Rover Vehicles except for the following details:
- 4.7.3.1 The finishing colour shall be Lustreless Olive Drab in accordance with Army(Aust) 139.
- 4.7.3.2 Galvanized fittings normally supplied on the commercial vehicle shall be subjected to an additional pickling process prior to assembly. The fittings shall then be painted as specified in paras 4.7.3 and 4.7.3.1.

4.8 Documentation

The Contractor shall supply approved documentation as detailed in paras 4.8.1, 4.8.2, 4.8.3 and 4.8.4.

- 4.8.1 A user handbook for driver instruction and maintenance.
- 4.8.2 A workshop manual covering major and minor repairs and adjustments.
- 4.8.3 An illustrated spare parts book showing exploded views for easy identification of parts for the complete vehicle.
- 4.8.4 The handbook and spare parts book shall be available for quantity purchase.

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 recognized.

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 reason for its adoption.
- 4.9.3 The Tenderer shall state the period for which he is prepared to guarantee the vehicle against faulty materials and workmanship.
- 4.9.4 Tenders, which are not accompanied by the information asked for in paras 4.9.1 to 4.9.3, may be rejected without further consideration.

5. INSPECTION AND TESTS5.1 Inspection

All supplies shall be subject to the approval of the Inspecting Officer and any supplies submitted by the Contractor for acceptance which, in the opinion of the Inspecting Officer, are inferior in quality of materials, workmanship, or differ in any way from this Specification, may be rejected by him.

5.2 Tests

- 5.2.1 The Contractor shall be responsible for carrying out all tests required by the Inspecting Officer to ensure that the vehicle is in accordance with this Specification.
- 5.2.2 The Contractor shall be responsible for providing all test equipment, facilities and accommodation for the Inspecting Officer for the purpose of ensuring that the vehicle is in accordance with this Specification.
- 5.2.3 The costs of all tests shall be borne by the Contractor.

6. PREPARATION FOR DELIVERY6.1 Packaging

Packaging shall be as designated in the tender schedule or official order.

7. NOTES7.1 Intended Use

The vehicle will be used to transport survey equipment and personnel, tow trailers and other towed equipment over rough terrain.

7 (contd)

7.2 Ordering Data

Procurement documents should specify the title, number and date of this Specification and details of the type of packaging to be used by the Contractor.

7.3 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 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.

7.4 Amendments to Specification

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

* * * * *

Prepared by Army Design Establishment, for the
Master General of the Ordnance,
Army Headquarters,
MELBOURNE.

Copies of this Specification are available from:

Chief Superintendent,
Army Design Establishment,
Private Bag No. 12,
P.O. Ascot Vale, Victoria.

APPENDIX 'A'

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RADIO INTERFERENCE SUPPRESSION

1. From the commercial vehicle, the Contractor shall remove the battery bond between the engine and chassis. This is located on the right hand side of the Truck. To replace this bond, the Contractor shall fit three bonding straps located as follows:
 - a. Across the rubber engine mounting, adjacent to the generator.
 - b. Between the flywheel housing and the chassis, on the generator side.
 - c. Between the cabin floor and the transmission, adjacent to the gear lever.
2. In addition three extra bonding straps shall be fitted. Two of these straps shall be fitted on the bonnet, located on either side, to ensure that the bonnet is earthed at all times. The third bond shall be between the engine and the regulator mounting bracket.
3. The ignition coil shall be removed from the bulkhead and relocated in an upright position on a bracket, between plugs 3 and 4, on the engine. The bracket shall be held by two cylinder head bolts.
4. The Contractor shall fit five 1 micro-Farad (F) capacitors in the following locations:-
 - a. Connected to each windscreen wiper battery terminal and earthed to the motor frame.
 - b. Connected to the battery terminal of the ignition coil earth.
 - c. Between the 'D' terminal of the generator and earthed at the top through the bolt of the generator.
 - d. Connected to the battery terminal of the ammeter.
5. Spark plugs with built-in 12,500 ohm () resistors shall be fitted.
6. The standard Lucas Distributor Cap No.418865 which has a built-in 12,500 ohms resistor shall be supplied.
7. If not already fitted with a 12 volt Regulator RB310 Lucas No. LU37187 and Lucas Regulator Suppressor Type WL14; these parts shall be removed and replaced by the approved items.

APPENDIX 'B'

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<u>SERVICING DATA</u> :			
TRUCK - CARRYALL. 3/4 TON, GS, TOPOGRAPHICAL SURVEY, LAND ROVER, SERIES 2A, 109 in. W.B.			
<u>TYRE 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 cylinders	OX(Aust)8

APPENDIX 'C'

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TO ENGAGE FRONT WHEEL DRIVE

TO DISENGAGE FRONT WHEEL DRIVE

LOW RATIO: STOP VEHICLE, engage low ratio
(Front wheel drive engaged automatically)

FROM LOW RATIO: Change to high ratio
(Front wheel drive disengaged automatically)

HIGH RATIO: Depress yellow knob

FROM HIGH RATIO: STOP VEHICLE, change to lower ratio
then back to high ratio.

LAYOUT OF INSTRUCTION PLATE 12½ inch by 1¼ inch

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