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SPECIFICATION ARMY(AUST) 7
FOR
TRUCK, UTILITY, 1/4 TON, GS, LAND ROVER
SERIES 2A, 88 INCH WB

ISSUE 31

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24 Mar 69.

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24 Mar 69.

1. SCOPE

This specification covers a Series 2A, 88 inch WB, Land Rover Utility Truck of ¼ ton capacity.

2. APPLICABLE DOCUMENTS

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

2.1 Specifications

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.
Army(Aust)606	Manuals, Technical.
Army(Aust)921	Extinguisher Fire B.C.F. Stored Pressure Regulator Discharge Type.

These specifications are available from the Army Design Establishment, Private Bag No. 12, P.O. ASCOT VALE, VICTORIA, 3032.

DEF(AUST) 47A	Marking of Service Equipment.
DEF(AUST) 89	Battery Storage (Lead Acid and Alkaline Types).
DEF(AUST)101	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)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.

2.2 Standards

Standards Association of Australia

AS CA8	Welding Code.
AS C300	Battery Terminals and Terminal Lugs for Lead-Acid Batteries.
AS L8	Vinyl coated cotton fabrics for upholstering.

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

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2.3 Drawings

ADD(M) 26	Bridge, Sign Plate.
ADE(V) 5-16	Registration Plate, Mounting Holes.
ADE(V) 5-41	Left, Rear, Bumper.
ADE(V) 8-1D	Cover, Canopy.
ADE(V) 32-1	Front Buffer Grille.
ADE(V) 44-244D	Front Wing Assembly Left.
ADE(V) 44-255D	Front Wing Assembly Right.
ADE(V) 43-1B	Unit Formation Sign Holders.
ADE(V) 159-2/1 & 2	Cover, Fitted Vehicular Body, $\frac{3}{4}$ Ton Land Rover, Cargo and FFR.
ADE(V) 44-540	Mirror Assembly Rear View, LH Installation.
ADE(V) 44-460B	Rear Mud Flaps.
ADE(V) 44-467B	Exhaust Silencer, Rework.
ADE(V) 110-15	Modification Steering Damper Land Rover.
ADE(V) 110-11	Installation of NATO Socket.
ADE(V) 110-38	Pipe Exhaust - Assy.
FV 157949	Light, Inspection Extension.
ADE(V)211-2	Light Hook.

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

2.4 Publications

2.4.1 A.M.V.S.C. Draft Regulations

These regulations are available at the Australian Motor Vehicle Standards Committee, Department of Shipping and Transport, 497 Collins Street, MELBOURNE, Victoria, 3000.

2.4.2 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, Victoria, 3000.

3. DEFINITIONS

3.1 The Inspecting Officer named in this specification shall be the Director of Army Inspection or his representative.

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

3.3 Where the letters MOEEI are used in this specification they shall be understood as meaning "Manufacturer's Optional Extra Equipment Item".

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4. REQUIREMENTS

4.1 General

The chassis shall be similar to that used in vehicles, sold on the Australian commercial market as 2½ litre petrol-engine driven, Series 2A 88 inch WB Land Rover.

4.1.1 Modifications

The chassis shall be modified and the fittings added as detailed in this specification.

4.1.2 Regulations

The vehicle shall comply in all respects with AMVSC Draft Regulations.

4.1.3 Interchangeability

Interchangeability of parts including spares shall be maintained throughout the contract. Alternative parts shall not be introduced without prior approval of the Director of Army Inspection or his representative. The vehicle components shall be as standard as possible with those of Land Rover vehicles already in service.

4.1.4 Chassis

The chassis shall be modified as detailed below and in accordance with the drawings listed in para 2.3.

4.1.4.1 The rear cross member 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.

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

4.1.4.3 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.

4.1.4.4 A second identical fuel tank shall be fitted, in the chassis on the LH side, immediately below the passenger's seat, and the filling point shall be brought to the outside of the vehicle on the LH side, as is done for the standard RH 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.

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- 4.1.4.5 The engine shall be fitted with a Rover eight-blade fan and engine tie rod as per Rover part number 531881.
- 4.1.4.6 Front lifting and towing rings conforming to MOEEI No. E1085 shall be fitted.
- 4.1.4.7 The front springs shall be Rover part number 265627 and the rear springs shall be Rover part number 272967. Shock absorbers as used with the extended spring hanger brackets shall be fitted.
- 4.1.4.8 A rotatable and lockable towing hook to Drawing No. ADE(V)211-2 shall be fitted.
- 4.1.4.9 The standard front bumper shall be fitted, and robust quarter bumpers shall be fitted at the rear, extending beyond the rear-most part of the tow hook. The left rear bumper shall have a recess made in the form of a cable support as detailed in Drawing ADE(V)5-41.
- 4.1.4.10 A front buffer grille to Drawing ADE(V)32-1 shall be fitted.
- 4.1.4.11 Transfer case and gearbox oil level plugs shall be of the tapered thread type.
- 4.1.4.12 A quadrant hand throttle conforming to MOEEI No. 1381 shall be fitted.
- 4.1.4.13 Rubber boots shall be fitted on both front and rear propeller shafts to cover the propeller shaft splines.
- 4.1.4.14 The front and rear axles shall have heavy duty differential assemblies and induction hardened axle shafts as fitted in British War Department Land Rovers.
- 4.1.4.15 A steering damper shall be fitted in accordance with Drawing No. ADE(V)110-15.
- 4.1.4.16 The vehicle shall be capable of operating on the appropriate fuels and lubricants defined in DEF(AUST)206.
- 4.1.5 Body
- 4.1.5.1 The canopy shall conform dimensionally to Drawing No. ADE(V)8-1D but the canvas detail shall conform to Drawing No. ADE(V)159-2/1 and 2.
- 4.1.5.2 Provision shall be made to secure the windscreen, when lowered to the horizontal position, by means of a 1 inch wide nylon webbing strap rivetted or stitched around 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 MOEEI No. 1358.

- 4.1.5.3 Dash vent flyscreens conforming to MOEEI No. E1106 shall be fitted.
- 4.1.5.4 A centre seat in the driving compartment is required. A tool box shall be fitted in the space under the centre seat.
- 4.1.5.5 The standard tail gate is required.
- 4.1.5.6 The side valances shall be deleted.
- 4.1.5.7 The bonnet shall be secured by side fastening catches.
- 4.1.5.8 Seats for four people shall be fitted, two persons per side, on either side of the cargo compartment. The seats shall conform to MOEEI No. E1082.
- 4.1.5.9 All seats shall be covered with a tropic proofed PVC coated fabric to Australian Standard L8, Grade W2. All fabric shall be of an approved colour in the Bronze Green to Olive Drab range.
- 4.1.5.10 Front Seat Squabs: 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.
- 4.1.5.11 A combined spare wheel/jerrican stowage fitting shall be fitted in the cargo compartment.
- 4.1.5.12 The radiator grille panel assembly shall have two 11/16 inch diameter holes drilled in it to allow easy removal of the two bolts fixing the steering relay housing to the chassis frame.
- 4.1.5.13 The vehicle front wings shall conform to the drawings ADE(V)44-244D and 255D.
- 4.1.6 Wheels and Tyres
 - 4.1.6.1 The wheels shall be one piece, drop centre, detachable, discs, incorporating a 5.5OF(H) rim as specified in Tyre and Rim Association Standards Manual.
 - 4.1.6.2 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.
 - 4.1.6.3 Five wheels, tyres and tubes shall be supplied with each vehicle.
 - 4.1.6.4 Provisions shall be made, and the necessary brackets fitted, for the stowage of the spare wheel on both the bonnet and in the cargo compartment. The brackets shall be suitable for use with 7.50 by 16 tyres and wheels. The spare wheel fittings on the bonnet shall include rubber pads to help support the spare wheel.

4.1.7 Electrical Equipment

- 4.1.7.1 A 12 volt (V) negative earth electrical system, suppressed to the requirements of DEF(AUST)172, Class B2, shall be fitted to the truck. A warning notice "NEGATIVE EARTH" shall be fixed to the vehicle in close proximity to the battery.
- 4.1.7.2 The battery shall be in accordance with DEF(AUST)89 and shall have a minimum rating of 61 ampere hours and be of the "sealed-link" type with terminal lugs of the clamp type in accordance with AS C300. The battery retaining cover inside length shall be 12. 1/8 inches in lieu of the standard 12. 13/16 inches.
- 4.1.7.3 All electrical components, wiring and harness shall be suitable for continual use at any temperature within the range of 5° F (-15° C) and 125° F (52° C), and in 100% humidity conditions between 32° F (0° C) and 80° F (27° C).
- 4.1.7.4 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.
- 4.1.7.5 Flashing type direction indicators shall be fitted. The flasher unit shall be HELLA Part No. 3036 2+1 by 21 watt, 12 V or approved equivalent. Driver warning devices for vehicle and trailer shall be fitted.
- 4.1.7.6 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.
- 4.1.7.7 A master control switch mounted on the dashboard shall control either the standard lighting or the black-out lighting as detailed below:

Standard Lighting

Headlights
Parking Lights
Tail Lights
Stop Lights
Turn Indicators
Dash Light
Map Reading Light
Dashboard Plug Socket

Black-out Lighting

Black-out Headlights
Convoy Light
Dash Light
Map Reading Light
Dashboard Plug Socket

- 4.1.7.8 The dip switch shall be re-located between the clutch and brake pedals, with the entire switch mechanism inside the vehicle. Any wiring on the floor shall be covered by a metal guard.

- 4.1.7.9 A socket (2 pin Lucas Part No.770419 or approved equivalent) shall be fitted in a suitable position on the dashboard, for connecting an extension light to the electrical system. This circuit shall be unswitched.
- 4.1.7.10 An extension light conforming with Drawing No.FV157949, complete with 13 ft of twin cable and a 2 pin plug to suit the dashboard socket (see para 4.1.7.9 above) shall be provided.
- 4.1.7.11 A Connector, Receptacle, Electrical (12 pin trailer connection) in accordance with DEF(AUST)135 shall be fitted to the rear of the vehicle. The location and circuit arrangement shall be in accordance with the applicable clauses of DEF(AUST)101 and installed in accordance with Drawing ADE(V)110-11. The receptacle cover shall be stamped "12 V" in 1/2 inch characters.
- 4.1.7.12 The ignition switch shall be the non-locking type and shall incorporate the starter switch.
- 4.1.7.13 A single windscreen wiper motor operating two windscreen wiper blades shall be fitted.
- 4.1.7.14 Metal guards to protect the rear indicator lights and tail lights shall be provided.
- 4.1.7.15 The instrument panel shall be illuminated by separately controlled lighting adequate for use by night under blackout conditions.

4.2 Fittings and Accessories

4.2.1 Centre Mirror

An adjustable, flat, anti-dazzle, rear vision mirror shall be fitted inside the vehicle, in a central position on the windscreen frame, such that the driver can obtain rearward vision.

4.2.2 External Mirrors

Adjustable rear mirrors shall be fitted to the left and right hand side of the vehicle. The right hand mirror shall be in such a position that the driver can adjust the mirror without leaving the driving seat and the left hand mirror shall be fitted in accordance with Drawing ADE(V)44-540. It shall be possible to fold the mirrors and their supporting arms so that they do not project beyond the vehicle silhouette.

4.2.3 Number Plates

Bolt holes shall be drilled in approved locations to suit the standard Army Registration Plates. (See Drawing No.ADE(V)5-16).

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4.2.4 Tools

The starting handle is the only item which shall be supplied from the commercial tool kit.

4.2.5 Bridge Sign Plate

One plate (Rover Part No.266818) shall be fitted to the front nearside of the vehicle.

4.2.6 Unit/Formation Signs

Four Unit/Formation sign holders to Drawing ADE(V)43-1B shall be fitted in approved locations.

4.2.7 Petrol Dipstick with Holder

One holder and graduated dipstick shall be supplied with each tank. The dipstick shall have a flat surface to facilitate reading of the fuel level.

4.2.8 Fire Extinguisher

One 3 lb BCF, Fire Extinguisher in accordance with Specification Army(Aust)921 shall be supplied and retained by a bracket fitted to the scuttle. The extinguisher shall be positioned upright on the passenger's side and towards the centre of the vehicle.

4.2.9 Mud Flaps

Rear mud flaps to Drawing ADE(V)44-460B or Rover Part No.320590 shall be fitted.

4.2.10 Instruments and Controls

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

- 4.2.10.1 An oil pressure gauge MOEEI No. E1389 together with auxiliary gauge panel MOEEI No. 1419.
 - 4.2.10.2 MPH Speedometer with provision for recording trip miles conforming to MOEEI No. E1379 together with Instrument panel MOEEI No. E1441.
 - 4.2.10.3 Two-way switch to allow fuel gauge to read from either tank.
 - 4.2.10.4 Windscreen washers MOEEI No. 1444 (Flexdrive or approved equivalent).
- 4.2.11 Instruction Plates
- 4.2.11.1 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.

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- 4.2.11.2 One plate, in accordance with Annex 'A', shall be located in the nearside glove box.
- 4.2.11.3 One plate, in accordance with Annex 'B', shall be located above the instrument panel.
- 4.2.11.4 A plate, located in the nearside glove box, shall carry the name of the vehicle as follows:
- Nomenclature : TRUCK, Utility, ¼ Ton, GS, Land Rover Series 2A, 88 inch WB.
- Census No. : 6005
- Chassis No. : (As applicable).
- Manufacturer : Rover Australia Pty. Ltd.
- Contract No. : (As applicable).
- Date of Delivery : (As applicable).
- 4.2.11.5 The following items shall be branded in approved positions with a broad arrow as defined in Specification DEF(AUST)47A.

Item	Type	Size of Lettering
Fire Extinguisher	Stamp or Etch	½ inch minimum
Tyres	Moulded	1 to 2 inches

4.3 Materials

All materials used in the manufacture of the vehicles shall comply with the relevant Australian or British Standard Specification where such exist, or in their absence, to any standard specification approved by the Inspecting Officer.

4.4 Workmanship

Workmanship shall be in accordance with the best trade practice, and shall be to the satisfaction of the Inspecting Officer.

4.4.1 Welding

The preparation for, and the application of all metallic arc welding shall be strictly in accordance with the SAA Welding Code CA8.

4.4.2 Painting

The preparation of surfaces for painting, and the painting process shall be the standard commercial processes used for Land Rover vehicles, except that the finishing colour shall be Lustreless Olive Drab to Specification ARMY(AUST)139.

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- 4.4.2.1 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 in para 4.4.2.

4.5 Manufacturer's Documentation

- 4.5.1 A User Handbook shall be supplied with each vehicle.
- 4.5.2 Workshop manuals and illustrated spare parts lists for the vehicle shall be available for separate purchase in quantity if required.
- 4.5.3 Documents mentioned in paragraphs 4.5.1 and 4.5.2 shall be in accordance with Army(Aust)606.
- 4.5.4 The manufacturer shall supply Technical Data in accordance with Army(Aust)10.

4.6 Manufacturer's Drawings

As a part of each contract, and if so specified in the procurement documents (Ref. paragraph 7.2) the Contractor shall supply one set of drawing prints of each item and assembly of parts special to this Vehicle including Rover parts modified for Army requirements. In addition drawing prints, of the general arrangement covering the complete vehicle, and all wiring diagrams shall also be supplied by the Contractor. (Excluded from these requirements are parts already shown on ADE drawing sheets).

These prints, which may be on the Contractor's own drawing sheets, shall be accompanied by a schedule listing the drawing titles and numbers, and indicating the Service name of the equipment, the CAPO number and the date of the Contract.

On completion of the contract, the Contractor shall forward the above data to the Chief Superintendent, Army Design Establishment.

4.7 Tendering Data

4.7.1 Submission of Samples

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.

4.7.2 Departures

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.

- 4.7.3 Warranty and After Sales Service shall be stated by the Tenderer in his tender.

4.7.4 Rejection

Tenders, which are not accompanied by the information asked for in paras 4.7.1 to 4.7.3 may be rejected without further consideration.

5. QUALITY ASSURANCE PROVISIONS

5.1 Inspection

All supplies shall be subject to the approval of the Inspecting Officer. Any supplies submitted by the Contractor for acceptance, which, in the opinion of the Inspecting Officer, are inferior in quality of materials, or differ in any respect from the Specifications, Drawings, Samples or other particulars may be rejected by him.

5.2 Tests

5.2.1 Tests to Specifications

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 Facilities provided by contractor

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 General

Packing, packaging, preservation and marking shall be in accordance with the relevant sections of Specification DEF(AUST)1000 or other requirements, as designated in the tender schedule or official order.

7. NOTES

7.1 Intended Use

This vehicle will be used as a general purpose all weather personnel and light cargo carrier over all types of roads as well as cross-country and will tow a matching $\frac{1}{4}$ ton trailer over roads and tracks at normal speeds and cross country at reduced speeds.

7.2 Ordering Data

Procurement documents should specify the following:

7.2.1 Title, number and date of this specification.

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7.2.2 Details of the type of preservation, packaging, identification, labelling etc, to be used by the contractor, reference paragraph 6.1.

7.2.3 Manufacturer's drawings required, reference paragraph 4.6.

* * * * *

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Copies of this specification may be obtained from:

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P.O. ASCOT VALE, VICTORIA, 3032.

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ANNEX 'A'

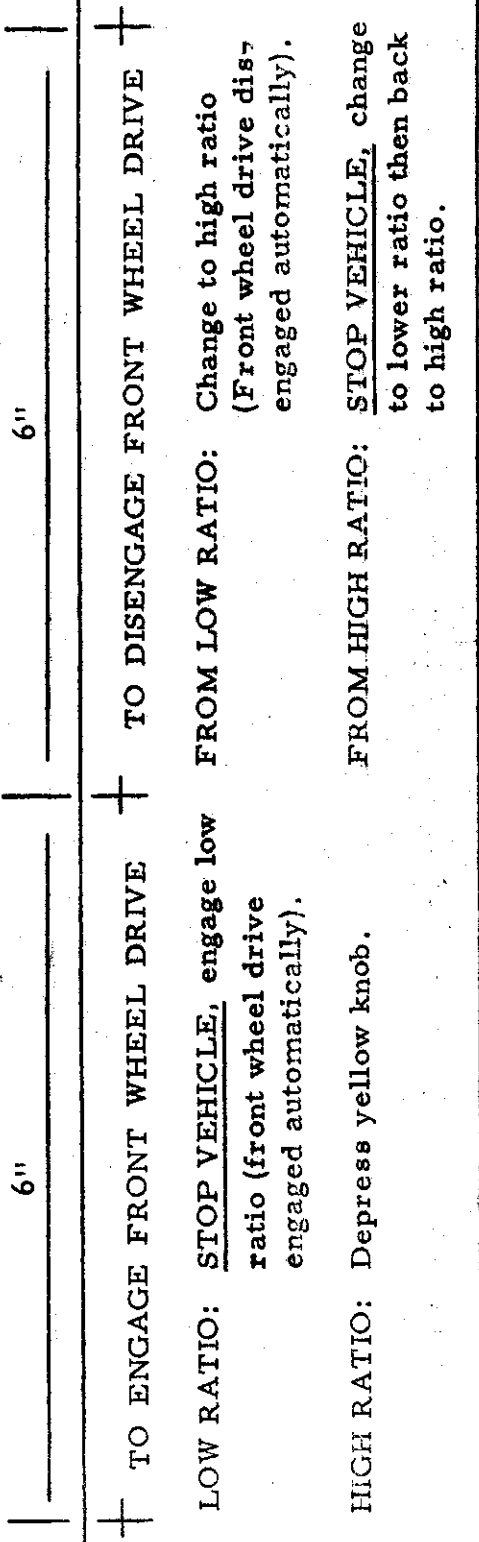
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<u>SERVICING DATA:</u> TRUCK UTILITY 1/4 Ton GS/Land Rover Series 2A, 88 in W.B.			
<u>TYRE INFLATION PRESSURES:</u>			
	Highway	Cross Country	Sand
front:	20 lbs	16 lbs	13 lbs
rear:	24 lbs	18 lbs	14 lbs
<u>LUBRICATION:</u> (Normal or tropical temperatures)			
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

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ANNEX 'B'

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LAYOUT OF INSTRUCTION PLATE 12½ inches by 1¼ inches

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