



**110" WHEELBASE
FORWARD
CONTROL**



The 110" Forward Control Land-Rover is an outstanding cross-country vehicle which combines the accepted 4-wheel drive mobility of the smaller models with a greater load capacity. The latest version has increased track, a specially designed anti-roll bar, heavy-duty axle assemblies, wider spring bases and stronger springs, mounted over the axles at the rear—all developments adding up to greater stability and strength.

1. Fixed side body.
2. Dropside body.
3. Fixed side body with canvas hood.
4. Dropside body with canvas hood.
5. Fixed side body with canvas hood and side windows for export.
6. Dropside body with canvas hood and side windows for export.
7. Platform body.
8. Chassis/cab with subframe.
9. Chassis/cab without subframe.
10. Chassis with wings, dash, seat-base and sub-frame.
11. Chassis with wings, dash, seat-base, without subframe.



1



2



3



4



5



6



7



8



9



10



11







An improved cab, offering excellent driving facilities, matches the mechanical developments of the Forward Control Land-Rover. Re-styled instruments, re-grouped minor controls, water temperature gauge and a combined ignition/starter switch are now included. Additionally, the gear lever and hand-brake have been re-positioned to give more convenient operation and dual windscreen wipers are fitted. Seats give good support for driver and passenger, the driving seat being adjustable.

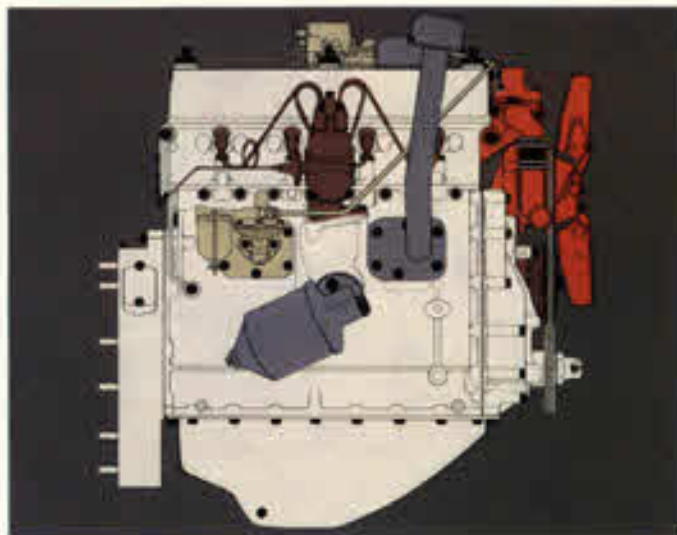


The spacious rear body of non-corrodible light alloy will comfortably carry a payload of 3,360 lb. (1,527 kg.) on roads and tracks or 2,800 lb. (1,270 kg.) over rough ground. The vehicle's high ground clearance and carefully planned weight distribution make it ideal for every kind of cross-country use. Several alternative body styles are available including platform, fixed side and dropside types, while chassis or chassis/cab units can be supplied for the fitting of special-purpose bodies.

As with all Land-Rovers, the 110" Forward Control is based on a box-section steel chassis frame of very great strength. It is built to withstand the constant shocks of cross-country operation and, being painted inside as well as outside, it is resistant to rust and corrosion over long periods of continuous use. Good ground clearance, four-wheel drive and abundant power ensure maximum traction at all times.

4-CYLINDER PETROL ENGINE

Offered on vehicles for export markets only. This is a well-proved engine that has given reliable service throughout the world for many years.



TRANSMISSION

Two- or four-wheel drive. Main gearbox has four forward speeds and one reverse with synchromesh on third and top. Two additional ratios are provided in the transfer box giving a total of eight forward and two reverse speeds. This wide speed range combined with the vehicle's other features enables all kinds of terrain to be traversed. Front and rear axles are fully-floating and have spiral bevel drive.



CHASSIS FRAME

Welded steel box-section of great strength, with body subframe. Box-section cross-members give torsional and diagonal rigidity.



BRAKES

Hydraulic, with servo assistance. Two leading shoes on front. Transmission-type handbrake.



ENGINES

Four-cylinder diesel and six-cylinder petrol for home market. Four-cylinder petrol also available for export.



SUSPENSION

Semi-elliptic springs, overslung at rear, controlled by double-acting hydraulic telescopic shock absorbers.



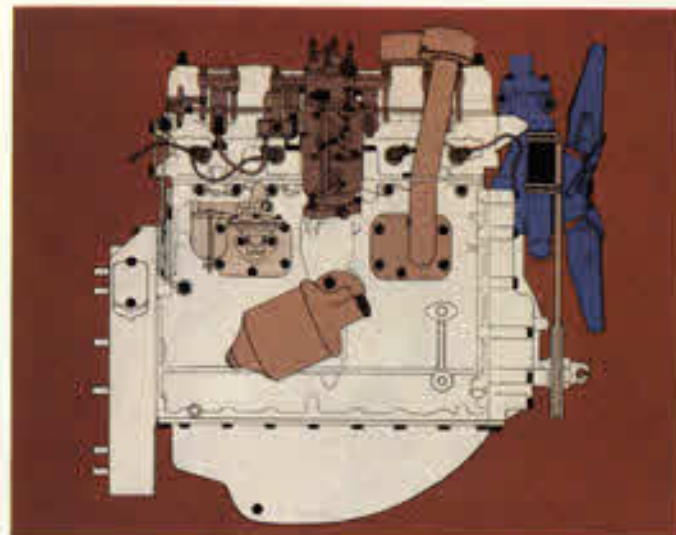
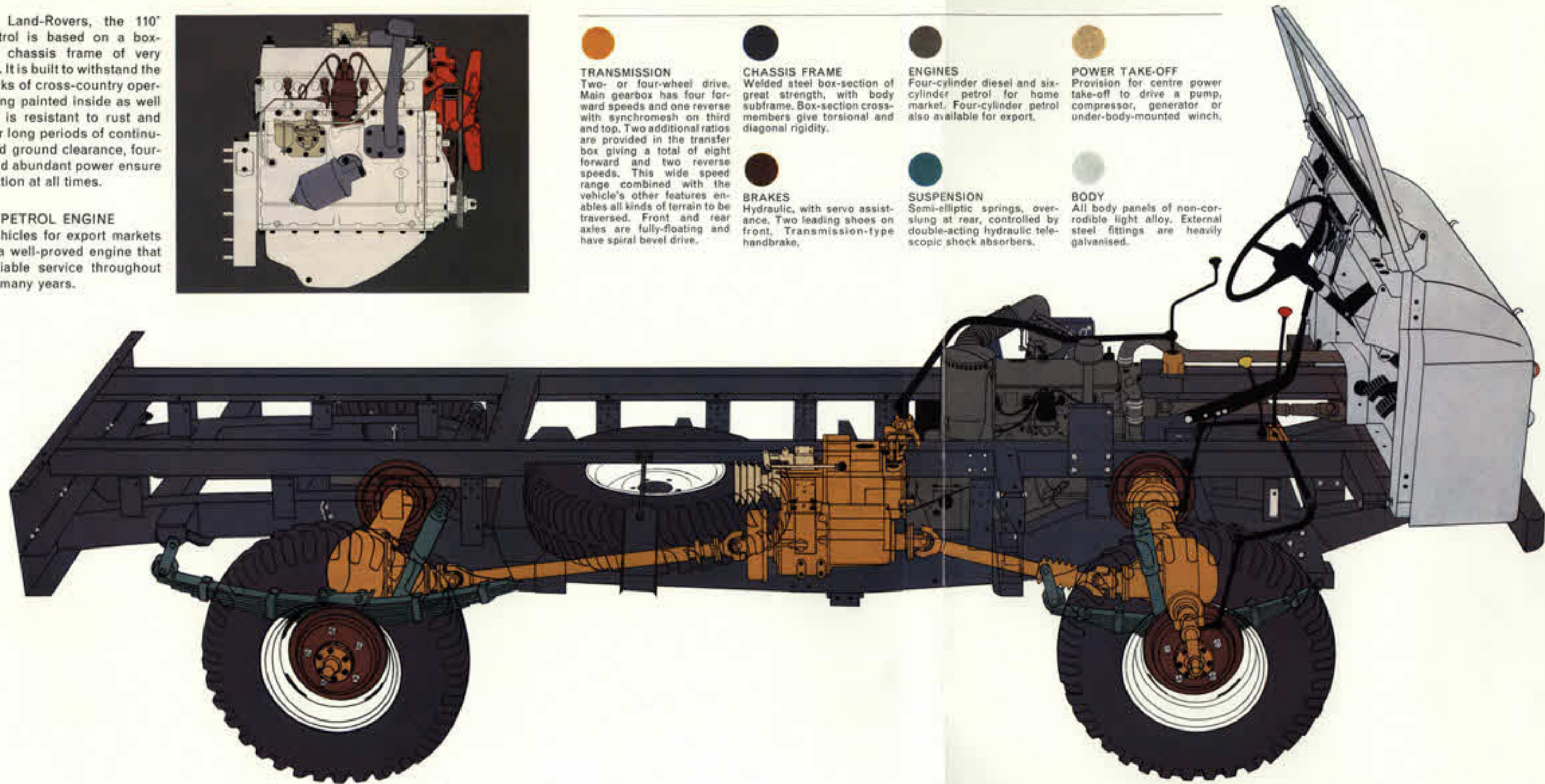
POWER TAKE-OFF

Provision for centre power take-off to drive a pump, compressor, generator or under-body-mounted winch.



BODY

All body panels of non-corrodible light alloy. External steel fittings are heavily galvanised.

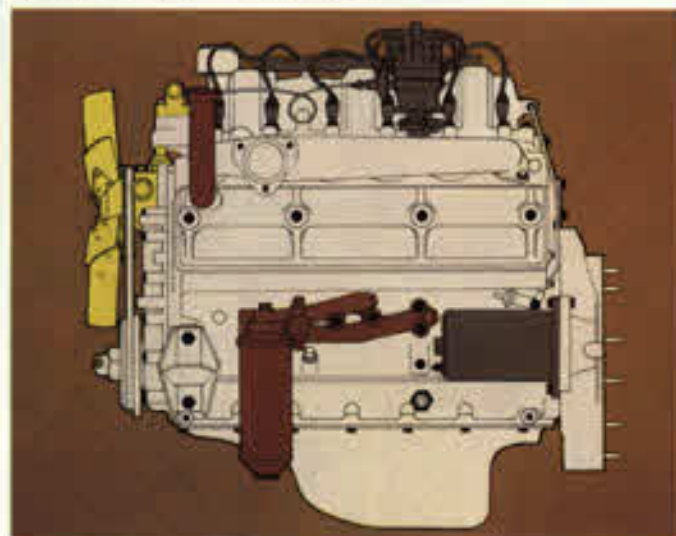


4-CYLINDER DIESEL ENGINE

Another reliable, well-tried unit, the 2½-litre Rover diesel engine adds further to the efficiency and economy of the Forward Control Land-Rover in the sort of tough working conditions which favour diesel operation.

6-CYLINDER PETROL ENGINE

The Rover 2.6-litre, six-cylinder petrol engine is available as an additional alternative for the 110" Forward Control. The extra power and performance are particularly useful for operations which involve a higher than normal proportion of road work.





SPECIFICATION

ENGINES

4-CYLINDER PETROL (Export Only)

| | |
|-------------------|--|
| No. of cylinders | .. 4. |
| Bore | .. 3.562" (90.49 mm.). |
| Stroke | .. 3.5" (88.9 mm.). |
| Capacity | .. 2,286 c.c. (139.5 cu. ins.). |
| Valve position | .. Overhead. |
| Compression ratio | .. 7 : 1. |
| Max. B.H.P. | .. 77 at 4,000 rev./min. (Gross). |
| Max. torque | .. 124 lb. ft. (17 mkg.) at 2,500 rev./min. (Gross). |

LUBRICATION SYSTEM

| | |
|---------------|---|
| Type | .. Pressurised by submerged gear type pump. |
| Filters | .. Pump intake gauze filter in sump, and external full flow filter. |
| Sump capacity | .. 11 pints (13 U.S. pints; 6 litres). |

COOLING SYSTEM

| | |
|----------|--|
| Type | .. Pressurised with pump fan and thermostat. |
| Capacity | .. 19 pints (23 U.S. pints; 10.8 litres). |

FUEL SYSTEM

| | |
|-------------|---|
| Carburettor | .. Zenith down-draught type 36 I.V. |
| Filters | .. Tank and sediment bowl. |
| Air cleaner | .. Oil bath with built-in centrifugal pre-cleaner. |
| Pump | .. Mechanical with sediment bowl and priming lever. |

ELECTRICAL SYSTEM

| | |
|----------|---|
| Ignition | .. By coil and distributor. |
| Starter | .. Solenoid operated by combined ignition/starter switch key. |

6-CYLINDER PETROL

| | |
|-------------------|--|
| No. of cylinders | .. 6. |
| Bore | .. 3.063" (77.8 mm.). |
| Stroke | .. 3.625" (92.075 mm.). |
| Capacity | .. 2,625 c.c. (160.3 cu. in.). |
| Valve position | .. Overhead inlet and inclined side exhaust. |
| Compression ratio | .. 7 : 1. |
| Max. B.H.P. | .. 88 at 4,500 rev./min. (Gross). |
| Max. torque | .. 130 lb. ft. (18 mkg.) at 1,750 rev./min. (Gross). |

LUBRICATION SYSTEM

| | |
|---------------|---|
| Type | .. Pressurised by submerged gear type pump. |
| Filters | .. Pump intake gauze filter in sump, and external full flow filter. |
| Sump capacity | .. 10 pints (12 U.S. pints; 5.75 litres). |

COOLING SYSTEM

| | |
|----------|---|
| Type | .. Pressurised with pump, fan and thermostat. |
| Capacity | .. 23 pints (27½ U.S. pints; 13 litres). |

FUEL SYSTEM

| | |
|-------------|--|
| Carburettor | .. S.U. H.D.6, horizontal dust-proofed. |
| Filters | .. Pump, tank, sediment bowl, carburettor. |
| Air cleaner | .. Oil bath type, with built-in centrifugal pre-cleaner. |
| Pump | .. Electrical dual-inlet type. |

ELECTRICAL SYSTEM

| | |
|----------|---|
| Ignition | .. By coil and distributor. |
| Starter | .. Solenoid operated by combined ignition/starter switch key. |

4-CYLINDER DIESEL

| | |
|-------------------|--|
| No. of cylinders | .. 4. |
| Bore | .. 3.562" (90.49 mm.). |
| Stroke | .. 3.5" (88.9 mm.). |
| Capacity | .. 2,286 c.c. (139.5 cu. in.). |
| Valve position | .. Overhead. |
| Compression ratio | .. 23 : 1. |
| Max. B.H.P. | .. 67 at 4,000 rev./min. (Gross). |
| Max. torque | .. 105 lb. ft. (14.5 mkg.) at 1,800 rev./min. (Gross). |

LUBRICATION SYSTEM

| | |
|---------------|---|
| Type | .. Pressurised by submerged gear type pump. |
| Filters | .. Pump intake gauze filter in sump, and external full flow filter. |
| Sump capacity | .. 11 pints (13 U.S. pints; 6 litres). |

COOLING SYSTEM

| | |
|----------|---|
| Type | .. Pressurised with pump, fan and thermostat. |
| Capacity | .. 18½ pints (22 U.S. pints; 10.5 litres). |

FUEL SYSTEM

| | |
|---------------|--|
| Injector pump | .. C.A.V., D.P.A. distributor type, self governing. |
| Injector type | .. C.A.V. Pintaux. |
| Filters | .. Sedimentor on chassis sub frame. Paper type filter and fuel tank. |

| | |
|-------------|---|
| Air cleaner | .. Oil bath with built-in centrifugal pre-cleaner. |
| Fuel pump | .. Mechanical, with hand primer (high pressure type). |

ELECTRICAL SYSTEM

| | |
|--------------|--|
| Starter | .. Operated by key switch and solenoid. |
| Heater plugs | .. Coil element, 1.7 volts 36/42 amps. Operation — combined with starter switch key. |

TRANSMISSION

CLUTCH

| | |
|-----------|---|
| Type | .. Single dry plate, 9½" (241 mm.) diameter, diaphragm spring type. |
| Operation | .. Hydraulic. |

MAIN GEARBOX

| | |
|--------------|---|
| Type | .. Single helical constant mesh with synchromesh on top and third speeds. |
| Oil capacity | .. 2½ pints (3 U.S. pints; 1.5 litres). |

TRANSFER GEARBOX

| | |
|------------------|---|
| Type | .. Two speed reduction on main gearbox output. |
| Four wheel drive | .. Two/four wheel drive control on transfer box output. |

| | |
|--------------|--|
| Oil capacity | .. 4½ pints (5½ U.S. pints; 2.5 litres). |
|--------------|--|

PROPELLER SHAFTS

| | |
|------|-----------------------------------|
| Type | .. Open, to front and rear axles. |
|------|-----------------------------------|

REAR AXLE

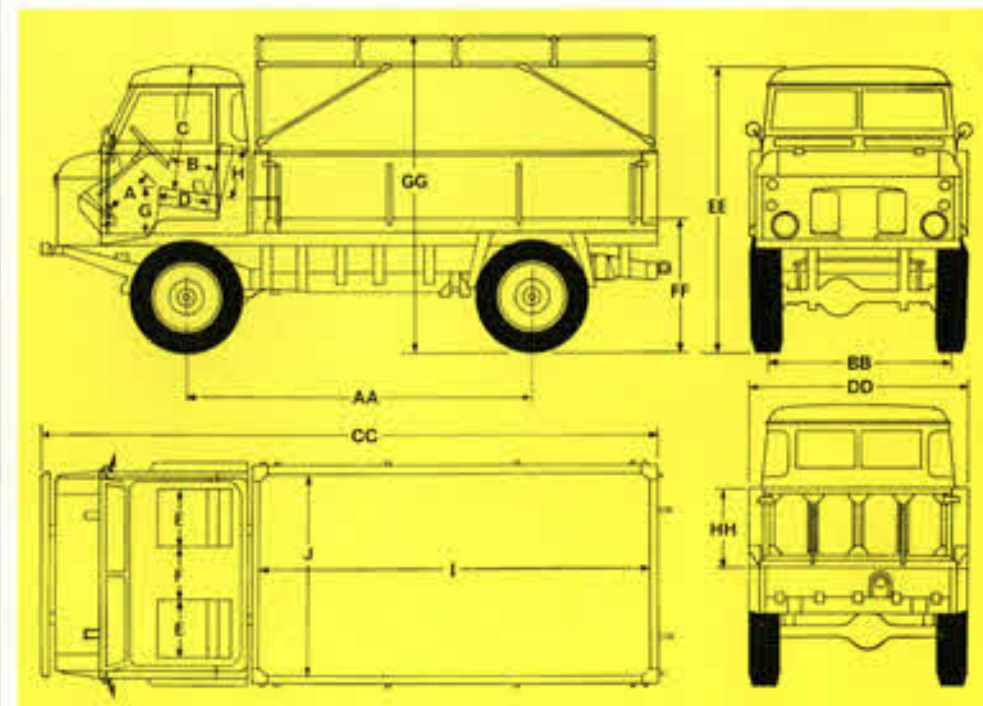
| | |
|--------------|--|
| Type | .. Spiral bevel; floating shafts. |
| Ratio | .. 4.7 : 1. |
| Oil capacity | .. 2½ pints (2½ U.S. pints; 1.2 litres). |

FRONT AXLE

| | |
|--------------|--|
| Type | .. Spiral bevel; floating shafts. |
| Ratio | .. 4.7 : 1. |
| Oil capacity | .. Differential, 2½ pints (3 U.S. pints; 1.5 litres). Universal joint housing, 1 pint (1½ U.S. pints; 0.57 litres). |

OVERALL RATIOS (Final Drive)

| | High Transfer | Low Transfer |
|------------|---------------|--------------|
| Top .. | 7.19 : 1 | 15.4 : 1 |
| Third .. | 10.8 : 1 | 23.1 : 1 |
| Second .. | 15.96 : 1 | 34.1 : 1 |
| First .. | 25.9 : 1 | 55.3 : 1 |
| Reverse .. | 21.7 : 1 | 46.4 : 1 |



POWER TAKE-OFF POINTS

Central power take-off drive available as optional extra.

CHASSIS DETAILS

FRAME

- Type Welded fabricated box section side and cross members, black enamel dipped, with body sub-frame.
- Front bumper .. Channel section, galvanised.

SUSPENSION

- Road springs .. Semi-elliptic, underslung at front, overslung at rear.
- Shock absorbers .. Hydraulic double acting telescopic.

STEERING

- Type Re-circulating ball, worm and nut.
- Steering wheel diameter .. 17" (43.18 cm.).
- Turning circle (with 9-00" x 16 tyres) .. 48 ft. (14.63 m.) diameter.
- No. of turns lock to lock 4½.

BRAKES

- Foot brake .. Hydraulic servo assisted drum brakes.

- Front—two leading shoes, 3" wide.
- Rear—leading and trailing shoes, 2½" wide.
- Hand brake .. Mechanical internal expanding drum brake on transfer box output.

WHEELS AND TYRES

- Wheel type .. Ventilated disc.
- Wheel size .. 6-50" L x 16".
- Standard tyre and tube size .. 9-00" x 16".
- Standard tread .. Dual purpose (road and cross-country).

FUEL SYSTEM

- Fuel tank Carried between side members behind rear axle. Fitted with protective under-plate, and telescopic external filler tube.
- Capacity 16 gallons (19 U.S. gallons; 73 litres).

CHASSIS OPTIONAL EQUIPMENT

- Includes Extra instruments, 12 volt alternator, winch, towing equipment, special protective devices, and special purpose tyres.

ELECTRICAL EQUIPMENT AND INSTRUMENTATION

ELECTRICAL SYSTEM

- Type Negative earth.
- Voltage 12 volt. Diesel—two 6 volt batteries in series.

ELECTRICAL EQUIPMENT

- Battery Petrol—57 A.H. Diesel—120 A.H.
- Generator Fan ventilated dynamo, 22 amperes output. Current voltage regulator—diesel. Compensated voltage control—petrol.
- Windscreen wiper .. Dual arms.
- Horn Windtone. Horn push in centre of steering wheel.

INSTRUMENTS AND CONTROLS

- Speedometer .. Large diameter with total mileage recorder including oil pressure, headlamp main beam and cold start warning lights.

- Water temperature and fuel gauges .. Combined in one large dial which also includes the charging warning light.

- Panel light .. Illuminating speedometer, water temperature and fuel gauges. Switch operates when side and tail lamps are "on".

- Petrol model .. Ignition switch, operated by key. Toggle switch for head, side and tail lamps.

- Ignition warning light: red. Choke warning light: amber. Oil pressure warning light: green. Headlamp main beam warning light: blue.

- Diesel model .. Lighting switch: toggle switch for head, side and tail lamps.

- Heater/starter/auxiliary switch: operated by key. Engine stop control: located between seats. Charging warning light: red. Heater plug warning light: amber. Oil pressure warning light: green. Headlamp main beam warning light: blue. Fuel tank level warning light: blue. Engine speed hand control.

- Lighting Headlamps: mounted on front panel. Sidelamps: mounted in front wings. Tail lamps: twin units having double filament stop/tail bulbs, separate numberplate illumination lamp. Dip switch: mounted on floor.

BODY

CONSTRUCTION

All body panels are of non-corrosive light alloy, and all external steel fittings are heavily galvanised.

OPTIONAL EQUIPMENT

Includes de luxe trim, heater, and various interior equipment.

COLOURS

In the colour schemes shown below the colours shown * are standard, while those marked † are optional and subject to an extra charge. Variations in body colours are possible for particular requirements in regard to fire appliances and special fleet customer specifications. Quotations may be obtained from the factory on request.

- Body Mid grey (home and export).
- Road wheels .. Limestone (home and export).

| Trim | Colour | Home | Export |
|-----------------------|--------|------|--------|
| Interior trim & seats | Grey | * | * |
| Interior trim & seats | Red | † | † |
| Roof interior lining | White | * | * |
| Canvas hood | Khaki | * | * |

PERFORMANCE

PAYLOADS

- Roadwork 2 persons, plus 3,360 lb. (1525 kg.).
- Cross-country .. 2 persons, plus 2,800 lb. (1270 kg.).

WEIGHTS

| | Front Axle lb. kg. | Rear Axle lb. kg. | Total lb. kg. |
|---|--------------------|-------------------|-----------------|
| 4-Cylinder Petrol Engine | | | |
| Unladen, plus 5 galls. fuel | 2,629 1193.5 | 1,712 777.2 | 4,341 1970.8 |
| Max. allowable gross weight; normal road-work | 3,650 1655 | 4,600 2086 | 8,250 3742 |
| cross-country .. | 3,590 1628 | 4,100 1860 | 7,690 3488 |
| Diesel Engine | | | |
| Unladen, plus 5 galls. fuel | 2,770 1256 | 1,735 787 | 4,505 2043 |
| Max. allowable gross weight; normal road-work | 3,650 1655 | 4,600 2086 | 8,250 3742 |
| cross-country .. | 3,590 1628 | 4,100 1860 | 7,690 3488 |
| 6-Cylinder Petrol Engine | | | |
| Unladen, plus 5 galls. fuel | 2,629 1193.5 | 1,712 777.2 | 4,341 1970.8 |
| Max. allowable gross weight; normal road-work | 3,650 1655 | 4,600 2086 | 8,250 3742 |
| cross-country .. | 3,590 1628 | 4,100 1860 | 7,690 3488 |

MAX. DRAWBAR PULL

- 2½ litre petrol .. 4,000 lb. (1800 kg.).
- 2½ litre diesel .. 4,000 lb. (1800 kg.).
- 2.6 litre petrol .. 4,350 lb. (1975 kg.).

MAX. GRADIENT

- | | | | |
|-------------|-----------|-----------|------------|
| | 2½ petrol | 2½ diesel | 2.6 petrol |
| Unladen .. | Over 45° | Over 45° | Over 45° |
| Laden | 34° | 38° | 29° |

DIMENSIONS

110° FORWARD CONTROL

| | | Ins. | Metres |
|----|--|--------|--------|
| AA | Wheelbase | 109.75 | 2.79 |
| BB | Track | 57.5 | 1.46 |
| CC | Overall length | 193 | 4.9 |
| DD | Overall width (across mirrors) | 75.50 | 1.92 |
| EE | Overall height of cab (unladen) | 88.60 | 2.25 |
| FF | Platform height, unladen | 41.00 | 1.04 |
| GG | Overall height with hood (unladen) | 102.00 | 2.59 |
| HH | Height of body sides | 21.5 | 546 |
| A | Front cushion to accelerator pedal | 17.75 | 451 |
| B | Front squab to steering wheel | 13.25 | 336 |
| C | Headroom, front seat | 39.10 | 993 |
| D | Front to rear of front cushion | 16.50 | 420 |
| E | Width of front cushion | 18.0 | 457 |
| F | Width between front seats | 16.8 | 427 |
| G | Top of front cushion to floor | 14.00 | 355 |
| H | Front squab height | 18.00 | 457 |
| I | Body interior length | 123.5 | 3.14 |
| J | Body interior width | 63.5 | 1.61 |



By appointment to Her Majesty Queen Elizabeth II
Manufacturers of Motor Cars and Land-Rovers
The Rover Company Limited

THE ROVER COMPANY LIMITED

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For Regular, Long and Station Wagon Models see Publications numbered 704, 705 and 706 respectively.

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