



MONARCH

MARK V

GOODS CHASSIS

(12 TONS GROSS)

L.H. or R.H. CONTROL

7 ft. 8½ in. OVERALL WIDTH

SPECIFICATION

ENGINE A.E.C. vertical 6-cylinder direct-injection oil engine of 470 cu. in. (7,685 c.c.) capacity; resiliently mounted with clutch and gearbox; bore 112 mm.; stroke 130 mm.; 112 b.h.p. at 2,000 r.p.m.; maximum torque 325 lb. ft. at 1,100 r.p.m.; compression ratio 16:1; two interchangeable cylinder heads; overhead poppet valves; cylinder block and engine casing of monobloc construction; renewable "push" fit wet liners; 7-bearing crankshaft; copper-lead lined main and big-end bearings; aluminium alloy pistons with fully floating gudgeon pins; helical timing gear train; full pressure lubrication to main and big-end bearings; metered supply to rocker shafts. Large capacity oil bath type air cleaner.

A 410 cu. in. (6,754 c.c.) capacity engine is also available, giving 98 b.h.p. at 2,000 r.p.m. This is almost identical with the engine above, the main difference being the size of the cylinder bores, which are 105 mm.; maximum torque 282 lb. ft. at 1,300 r.p.m.

See separate brochures for further particulars of engine.

COOLING Water circulated by centrifugal pump, belt driven from the crankshaft. Pressure and overflow valves are incorporated in the radiator top tank; thermostatic temperature control. One-piece radiator core consisting of vertical tubes and horizontal gill plates, sweated to pressed steel top and bottom tanks and side standards. The radiator is resiliently mounted.

CLUTCH Single dry plate type of 14 in. diameter with frictional area of 187 sq. in.

GEARBOX 5-speed synchromesh, unit-mounted with the engine. All gears are synchromesh except first and reverse, which are sliding mesh. Ratios: 1st 6.25:1; 2nd 4.40:1; 3rd 2.65:1; 4th 1.56:1; 5th 1:1; Reverse 6.01:1.

PROPELLER SHAFTS Open tubular type with Hardy Spicer needle roller bearing universal joints.



"Monarch" Mk. V, with dropside body, operating in South Africa.

FRONT AXLE Alloy steel "1" section forging with integral spring pads; swivel pin thrust taken by hardened and ground steel buttons; hubs mounted on taper roller bearings.

REAR AXLE Pressed and welded steel casing; fully floating driving shafts of equal length with integral driving flanges which are bolted to each hub; spiral bevel with straddle-mounted pinion. Reduction ratios: 5.87:1 or 6.28:1.

STEERING High efficiency worm and nut, ratio 32:1 at mid-position giving 5½ turns of steering wheel from lock to lock.

BRAKES Foot: compressed air operated to all wheels, with diaphragm type chambers. Hand: mechanical, to rear wheels only. Engine-mounted twin cylinder compressor; wheel brake sets are of Girling single leading shoe type. Linings ¼ in. thick, 4½ in. wide front and 7 in. wide rear; 15½ in. diameter drums; lining area 678 sq. in.

SUSPENSION Four semi-elliptic leaf springs, 3½ in. wide; front 52 in. long; rear 54½ in. long; double-acting telescopic hydraulic dampers are fitted at the front and helper springs at the rear.

FRAME The chassis frame is constructed of channel section steel side and crossmembers and provided with a bumper bar at the front.

Maximum frame section —
10½ in. × 3 in. × ½ in.

FUEL SUPPLY 36 Imperial gallon capacity tank, with magnetic contents gauge.

WHEELS AND TYRES 10-00—20, 12-ply rating single front and twin rear tyres.

ELECTRICAL EQUIPMENT 24-volt, compensated voltage control, lighting and starting. Axial starter motor; twin belt driven 5 in. diameter dynamo, output 285 watts; 94 ampere hour capacity lead acid batteries.

INSTRUMENTS AND ACCESSORIES Instrument panel containing speedometer, oil pressure gauge, air pressure gauge, water temperature gauge, ammeter, panel illumination and dimmer switch. Horn push button on steering column arm; foot operated dip switch.

EXTRAS Power take-off, exhaust brake, etc. Full details on application.

LOAD RATINGS The maximum permissible gross weight of this vehicle is 12 tons, or 18 tons with trailer, subject to the fitting of suitable wheel and tyre equipment.

OVERALL CHASSIS DIMENSIONS

Wheelbase	Overall width	Overall length	Body track	Frame height at rear (laden)	Towing axle
ft. in.	ft. in.	ft. in.	ft. in.	ft. in.	ft. in.
9 6	7 8½	13 6	10 1	3 1½	42 0
11 6		18 5	13 0		49 0
14 6		22 9	17 4		60 0
17 3		26 9	21 4		70 0

For details of tractor chassis see separate leaflet.



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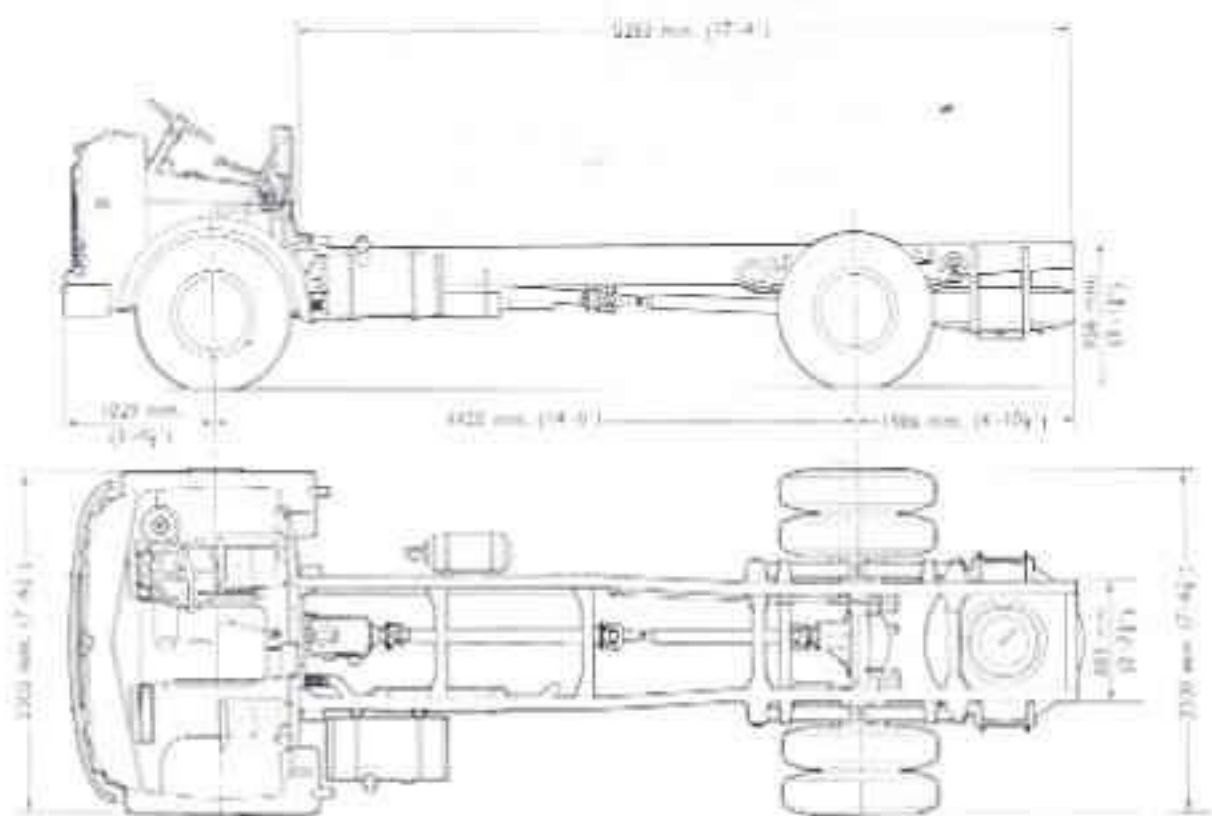
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MONARCH MARK V GOODS CHASSIS



ARRANGEMENT OF THE 14 ft. 6 in. WHEELBASE CHASSIS

Dimensions shown are for later chassis fitted with 10.00-20 tyres.

Cochbuilder's drawings are available on request.

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