MERCURY

GOODS CHASSIS

R.H. CONTROL

7 ft. 2½ in. OVERALL WIDTH

SPECIFICATION

ENGINE. Vertical 6-cylinder direct-injection oil engine of 410 cu. in. (6¾ litre) capacity; resiliently mounted with clutch and gearbox; bore 105 mm.; stroke 130 mm.; 98 b.h.p. at 2,000 r.p.m.; maximum torque 265 lb. ft. at 1,200 r.p.m.; compression ratio 16 : 1; minimum fuel consumption 0·370 lb. b.h.p.-hr. at 1,500 r.p.m.; 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 each with three compression rings, top ring being chromium plated, and two oil control rings, one above and one below the fully floating gudgeon pin; helical timing gear train; full pressure lubrication to main and big-end bearings; metered supply to rocker shafts. Air cleaner of centrifugal type.

A 470 cu. in. (7¾ litre) capacity engine is also available, giving 112 b.h.p. at 2,000 r.p.m. This is almost identical with the 410 cu. in. capacity engine, the only difference being the size of the cylinder bores, which are 112 mm. diameter; maximum torque 325 lb. ft. at 1,100 r.p.m. minimum fuel consumption 0·368 lb. b.h.p.-hr. at 1,300 r.p.m.

COOLING. Water circulated by centrifugal pump, belt driven from the crankshaft. Pressure and overflow valves are incorporated in the radiator filler cap; 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 14 in. diameter with frictional area of 197 sq. in.; detachable rubbing plate and broached centre.

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 1600 series universal joints.

FRONT AXLE. "I" section stamping of reversed Elliott type; 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 5¼ turns of steering wheel from lock to lock. 20 in. diameter steering wheel.

BRAKE SYSTEM. Either vacuum-hydraulic or compressed air brakes can be supplied; with compressed air brakes the wheel cylinders are of the axle mounted diaphragm type. Engine mounted exhauster or twin cylinder compressor; wheel brake sets are of the Girling two leading shoe type when used with the vacuum-hydraulic system and single leading shoe type when used with the compressed air system. Linings ¼ in. thick, 4¼ in. wide front and 6 in. wide rear; 15¼ in. diameter drums; footbrake to all wheels, area 618 sq. in., handbrake to rear wheels only, area 362 sq. in.

SUSPENSION. Four semi-elliptic leaf springs, 2½ in. wide; front 52 in. long; rear 54½ in. long; "helper" springs, 39 in. effective length, are fitted at the rear.

FRAME. The chassis frame is constructed of channel section steel side and crossmembers.

Maximum frame section :—

8 ft. 9 in. and 11 ft. 0 in. wheelbase models: 10½ in. × 3½ in. × ⅜ in.

13 ft. 6 in. and 18 ft. 3 in. wheelbase models: 10 in. × 3 in. × 5/16 in.

FUEL TANK. 22 Imperial gallon capacity welded steel fuel tank; quick release filler cap.

WHEELS AND TYRES. 9·00 – 20, 12 ply rating single front and twin rear tyres.

ELECTRICAL EQUIPMENT. 24 volt lighting and starting. Axial starter motor; twin belt driven 5 in. diameter dynamo, output 288 watts; 94 ampere hour capacity Oldham or Exide batteries.

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

LOAD RATINGS. Maximum gross weight (without trailer) 12 tons, the individual axle weights at the ground must not exceed 4 tons on the front axle and 8 tons on the rear axle.

Maximum gross train weight (including trailer) must not exceed 15 tons.

All the above weights are subject to the provision of suitable wheel and tyre equipment.

OVERALL CHASSIS DIMENSIONS.

Wheelbase	Nominal overall width 9·00—20 tyres	Overall length	Body space	Frame height at rear (unladen) 9·00—20 tyres	Turning circle
8′ 9″		14′ 9″	For semi-forward control		40′ 0″
11′ 0″	7′ 2½″	18′ 4″	12′ 11″	3′ 5½″	47′ 0″
13′ 6″		21′ 11″	16′ 6″		56′ 0″
18′ 3″		26′ 3″	20′ 10″		66′ 0″

The "Mercury" 4-wheeler with a flat platform body.

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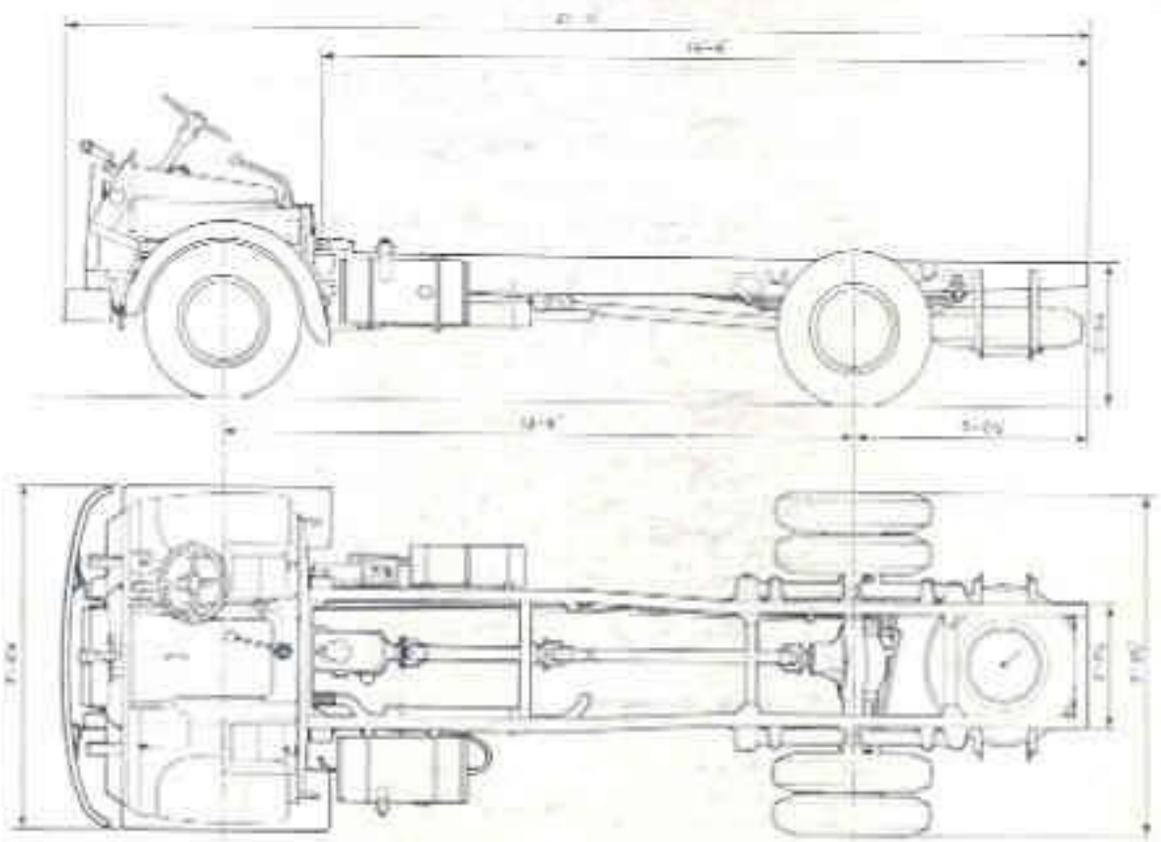
MERCURY GOODS CHASSIS

ARRANGEMENT OF THE 13 ft. 6 in. WHEELBASE CHASSIS



Dimensions shown are for unladen chassis fitted with 9·00–20 tyres.

Coachbuilder's drawings are available on request

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