

Servicing the CITROEN SIX (1948-52)

ENGINE DATA.

No. of Cylinders: 6 (Cylinder barrels detachable).
 Treasury Rating: 22.6 h.p.
 C.C.: 2,867.
 B.H.P.: 76 at 3,700 r.p.m.
 Bore: 78 m.m.
 Stroke: 100 mm.
 Compression Ratio: 6.2 to 1.
 System of Cooling: Impeller assisted thermo-syphon.
 1st O.S. Bore:) Replacement barrels and
 Max. O.S. for boring:) pistons of standard bore.
 Firing Order: 1-4-2-6-3-5.
 Piston Clearance Top: —
 Piston Clearance Bottom: 0.10 mm.—0.13 mm.
 Ring Gap: 0.25 mm.; Compression, 0.20 m.m.; scraper.
 No. of Compression Rings: 2.
 Width of Compression Rings: 2.5 mm.
 No. of Oil Rings: 1 oil, 1 scraper.
 Width of Oil Rings: 4 mm.
 Oil Pressure, lb. sq. in.: 20 to 30 at 20 m.p.h. top gear.
 Gudgeon Pin Type: Floating (retained by circlips).
 Fit in Piston: Light push fit at 500C. min.
 Fit in Con Rod: 0.0004 in. min., 0.008 in. max.
 Crankpin Diameter (standard): 48 mm.
 Type of Bearing—Con. Rod: White Metal.
 No. of Crankshaft Bearings: 4.
 Type of Bearings—Main: Bronze-lined white metal.
 Valve Timing Markings: Alignment of hole in fly-wheel with hole in casing.
 Tappet Type: Pot type, operating push rods and O.H. valves.
 Inlet Valve Clearance for Timing: 0.006 in. hot.
 Inlet Valve Opens—Degrees: 3 B.T.D.C.
 Inlet Valve Working Clearance: 0.006 in. hot.
 Exhaust Valve Working Clearance: 0.008 in. hot.
 Are guides removable? Yes.
 Carburetter—Make and Type: Solex FFIAP2.
 Choke Setting: 24; Corrector, 280.
 Main Setting: 120 (Float weight, 21.5 grammes).
 Starter Setting: Petrol, 120; Air, 5.3.
 Idling Setting: 45; Air, 120.
 Pump Setting: 45; Needle, 2.5.

CLUTCH AND GEARBOX.

Clutch Type: Twin dry plate.
 Type of Facing: Moulded Ferodo.
 Gear Ratios: Top, 3.875 (with synchromesh); third, —; second, 5.62 (with synchromesh); first, 13.24; reverse, 15.88.

FRONT AXLE AND STEERING Etc.

Camber: 1 degree plus/minus 0 degrees 30 ft.

Caster angle: 0 degrees plus/minus 0 degrees 15 ft.
 Toe-in: Toe-out 0 mm.—2 mm.
 Kingpin Inclination: —
 Track: 4 ft. 10½ in.
 Turning Circle: 45 ft. 3 in.
 Wheelbase: 10 ft. 1¼ in.
 Tyre Size and Pressures: 185 x 400 Michelin Broad-base; 20 lb. front; 22 lb. rear.
 Type of Axle: Front wheel drive.
 Type of Drive: Spiral bevel.
 Ratio or No. of Teeth: 31 x 8.
 Adjustment: Shim and ring nut.
 Lash—in.: 0.008 in.

BRAKES.

Type: Lockheed hydraulic—two leading shoes on front.
 Type of Linings: Moulded Ferodo.

SPRINGS.

Type: Torsion bars, front and rear.
 Length—Front: —) (Action of Torsion Bars is
 Width—Front —) checked by Hydraulic Dampers)
 Rear Axle Camber: 1 degree plus or minus 0 deg. 30 ft.
 Rear Axle Caster: 0 to 1 mm.

ELECTRICAL:

Distributor Rotation: Anti-clockwise from driving end of distributor.
 Manual Advance:) Total
 Automatic Advance: Centrifugal) 29
 Breaker Gap: 0.012 in.—0.015 in.
 Plug Gap: 0.025 in.
 Firing Order: 1-4-2-6-3-5.
 Ignition Timing—Degrees 6 B.T.D.C.
 Ignition Timing—No. of flywheel teeth: — (Note.—
 By alignment of markings on sprockets).
 Charging System: Lucas C.V.C. Dynamo.
 Battery—Capacity, Make and Type: 12 Volt, 57 amp.
 Exide 6XCZ9H.
 Battery Earth—Positive or Negative: Positive.

CAPACITIES.

Sump—Pints: 12½.
 Gearbox—Pints: 5.
 Cooling System—Pints: 12.
 Radiator hose (top) length. Int. diam.: Moulded.
 Radiator hose (bottom) length. Int. diam.: Moulded.
 Petrol—Gallons: 15.

GENERAL DIMENSIONS.

Overall Length: 15 ft. 11 in.
 Overall Height: 5 ft. 1 in.
 Overall Width: 5 ft. 10 in.
 Ground Clearance: 7 in.
 Total Weight: 27¼ cwt.