



Cr80 (es Office single Cylinder Model Liebine. 30mm (60以(60) (fi)) 36 公司が作前的 37名の (340新)/ (Of Join (alty) Box and Shoke Compression at the Carburettor Amaleonicalitie Geal (alloss liop Thires Seconds 700:0 18358-1 18:15 First Electrics 1411005 Chains (front) Chains (rear) ¥ × 380# .400k. 910k Tyres (front) Tyres (rear) Brake diameter. (front) Brake diameter (rear) 1 Table 1 Fuel tank (gallons). 2 imperials (22 \* U.S.A.) (1-1 mjestikli) (1744 – i SVAH) Oil tank (pints) Seat height Wheel base Ground clearance Weight ((b)) 814 381 H (19/53)(101) Norton Villiers Limited Norton Matchless Division: 44 Plumstead Road London S.F.18

Engine.

497 c.c. (86 mm x 85.5 mm) all alloy o.h.v. single cylinder four-stroke engine. Alloy cylinder head with cast-in valve seats, and central plug: 13" diameter open exhaust pipe: chrome plated, stellite tipped valves: exhaust valve lifter fitted: racing duplex hairpin valve springs: built-up rockers housed in detachable light alloy rocker box: separate inspection cover: hiduminium push-rods with hardened steel end cups: mushroom type cam followers: special high lift cams (type HS) on separate pinions: built-up crankshaft (individually balanced) with steel flywheels and two piece crankpin (alloy steel centre pin with hardened steel sleeve) supported by two-ball journal, one roller and one plain, main bearings: duralumin caged single row roller big-end bearing: forged steel connecting rod with pressed in hardened liner: alloy piston (standard compression ratio 8.7:1): alloy cylinder barrel with low friction iron liner: gear-type oil pump driven by timing side of crankshaft: Amal concentric carburettor: Lucas competition magneto (breather pipe terminates under petrol tank), driven by chain: alloy timing chest: high level exhaust pipe.

## Gearbox.

Separate medium-close ratio four-speed gearbox: alloy shell: wide tooth heavy duty pinions: special multi-plate clutch: single primary chain housed in cast alloy oil bath: rubber vane shock absorber integral with clutch: foot operated gear pedal: folding kickstarter.

Brazed and bolted construction: twin tube duplex cradle: single top and saddle tubes: two large diameter looped tubes, welded together by cross-bracing struts, form rear sub-frame: large robust lug at base of seat tube houses self lubricating pivot bush for rear swinging fork.

Rear Suspension.

Large braced malleable lug into which two heavy-duty large diameter tubes are brazed, form a very rigid swinging fork assembly: large diameter heat-treated steel pivot shaft pressed into lug: fork movement controlled by fully adjustable oil damped units.

Heavy duty 'Teledraulic' forks, designed specially



for scrambling: give extra long movement and precise progressive two-way damping: multi-rate springs: large diameter heat-treated tubular steel stanchions: alloy sliders: rubber gaiters: forged steel handlebar lug and fork crown: crown pinch bolts act as steering lock stops.

Mudguards.

Polished alloy blades, with tubular steel stays.

Wheels.

19" diameter chrome plated steel rims fitted with 3.50" front and 4.00" rear tyres: heavy gauge spokes.

Hubs and Brakes.

Slim alloy front hub with cast-in 7" diameter brake drum: wider shoes and linings mounted on webbed light alloy back plate: two ball journals support hub on high tensile steel spindle. Alloy rear hub mounted on taper roller bearings: one piece brake drum and rear sprocket bolted up to hub.

Twinseat.

Single level competition seat: pressed steel base: foam rubber filling: waterproof Vynide covering.

Petrol Lank.

Two gallon pressed steel completely rubber mounted: mounting at front by expanding rubber bushes: at rear by rubber bands: tank rests on foam rubber pads.

Oil Tank.

4.5 pint pressed steel tank bolted up to rear sub-frame.

Air Filter.

(Standard fitting) Flat 'works' pattern mounted on offside, and up to rear sub-frame. Concertina shaped felt and gauze element.

Handlebars.

Fully adjustable with adjustable ball ended controls

Dimensions.

Seat height 32": wheelbase 55.25": ground clearance  $6\frac{1}{2}$ ": handlebar width 32": weight 345 lb.

Colour Finish.

All black with Cherry Red tank and all usual parts chrome plated.

