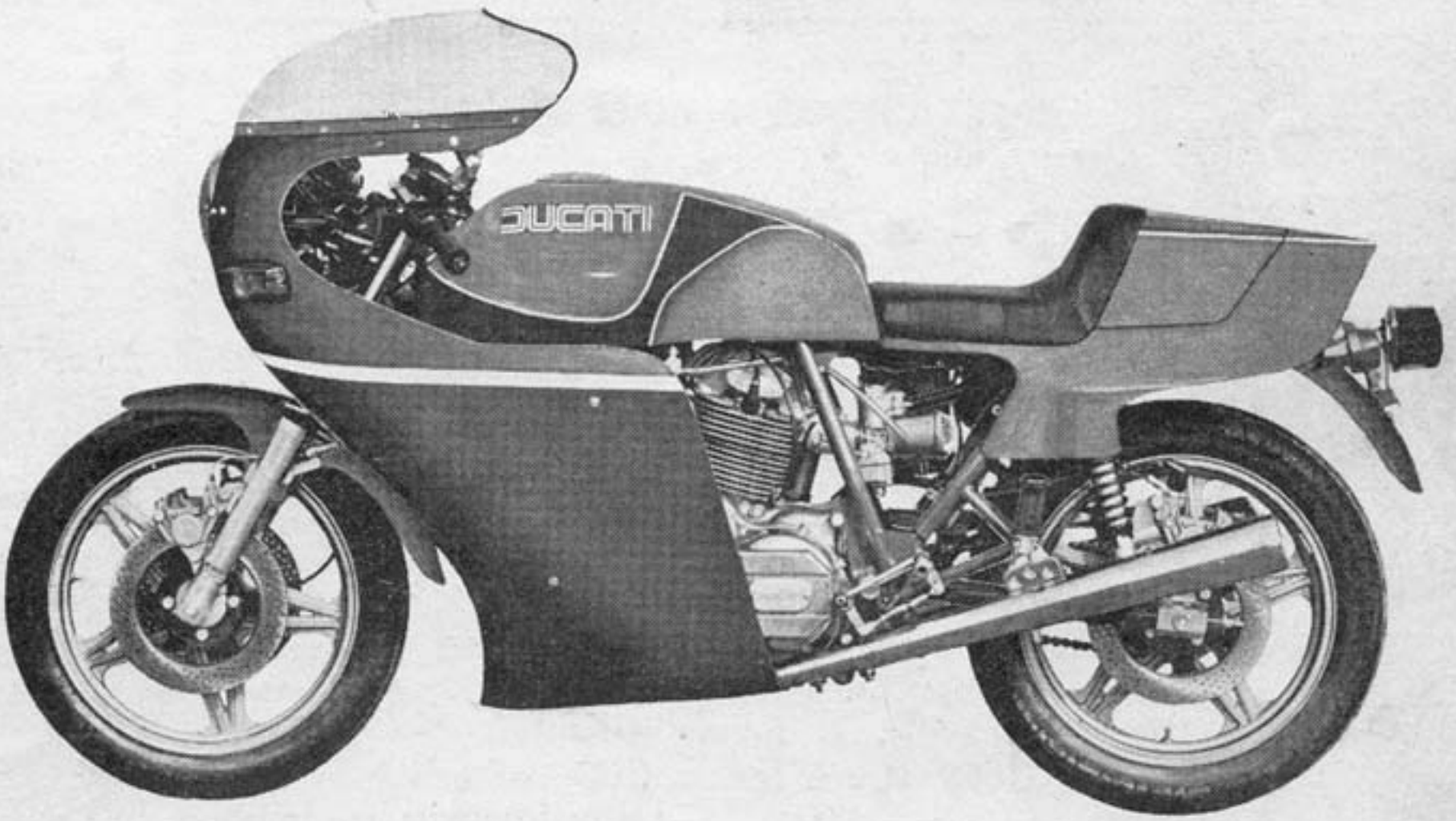
DUCATI

900 REPLICA

MOTORCYCLE
TWO CYLINDERS
SINGLE O.H.C.



SUPPLEMENT TO THE 900/SS MOTORCYCLE OWNERS' MANUAL

SPECIFICATIONS — USE — MAINTENANCE

FOREWORD

« TOURIST TROPHY - Isle of Man - 1978 »
MIKE HAILWOOD won the WORLD CHAMPIONSHIP riding a powerful 900/SS production racer. After this important victory, the DUCATI Factory put into production a series of 900/SS motorcycles equal to this glorious motorcycle under the aesthetical point of view.

ENGINE MAIN SPECIFICATIONS

Bore		86 mm. (3.38583")
Stroke		74,4 mm. (2.92913")
Cylinder capacity		863,9 cc. (52.718 cu. in.)
Compression ratio		9,5 : 1
Max. power r.p.m.		7000/1'
Engine max. r.p.m.		7500/1'
Primary transmission		Z=32/70=1/2,187
Gear ratios	1st speed	Z=19/34×24/30=1/2,237
	2nd speed	Z=24/30×24/30=1/1,562
	3rd speed	Z=27/26×24/30=1/1,204
	4th speed	direct drive =1/1
	5th speed	Z=31/22×24/30=1/0,887
Secondary transmission		Z= 15/36=1/2,4

Regina « Grand Prix - 136 » chain sprocket pitch 5/8"×3/8"

Beware At any speed, do not exceed the max. number of revolutions of the engine, that is 7900/1'.

Failure to comply with the above recommendations absolves the manufacturer from all liability as to possible troubles occurring in the engine.

VEHICLE MAIN SPECIFICATIONS

Frame

The frame is the same as in 750/900 SS motorcycles, with proper modifications for full fairing and saddle mountings.

Rear suspension

The rear suspension consists of a swing-arm equal to the one of above SS motorcycles except shock-absorbers 20 mm. longer.

Tyres

The motorcycles are equipped with light alloy wheel rims and the following tyres:

Trade-mark	Front-wheel		Rear wheel	
	Tyre size	Pressure Kg/cm² (lb/sq. in)	Tyre size	Pressure Kg/cm² (lb/sq. in)
Pirelli	100/90V18 PHANTOM	2÷2,3 (28,5÷32,7)	110/90V18 PHANTOM	2,5÷2,7 (35,6÷38,4)

The lower values of inflating pressure are referred to one person; the higher ones are referred to rider plus passenger.

Brakes

— The **front brake** is double disc type ∅ 280 mm. hydraulically controlled by handlever R.H. on the handlebar.
— The **rear brake** is single disc type ∅ 280, hydraulically controlled by footlever placed R.H. on the mtc.

Front braking surface . . . . . 75 cm²
Rear braking surface . . . . . 37,5 cm²

ELECTRIC SYSTEM (see wiring diagram)

The electric system is the same as for the 750/900 SS motorcycles, except:

1) **Dashboard** (Fig. 1)

Equal to the one fitted to the 900/SS DARMAH motorcycle, it contains:

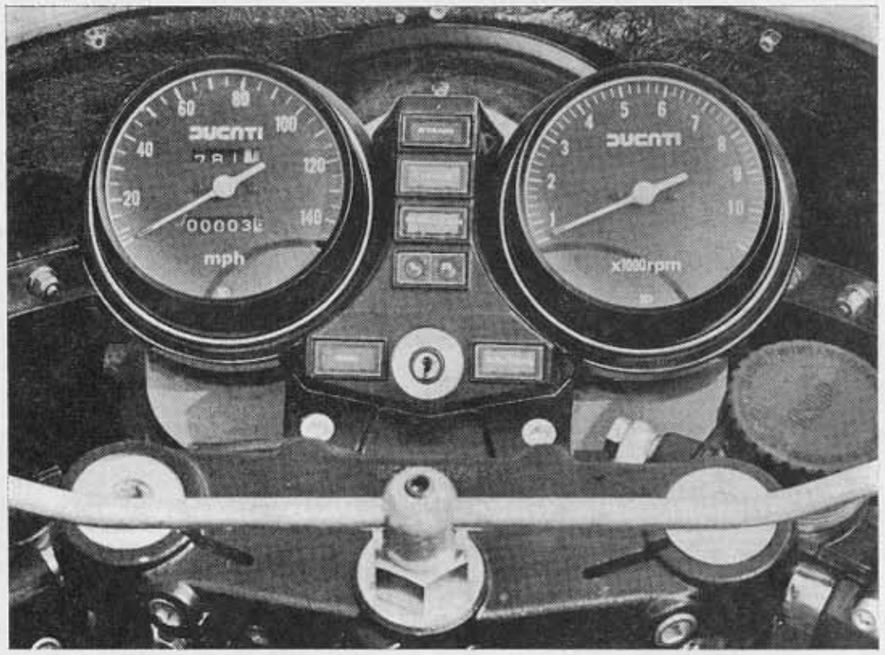
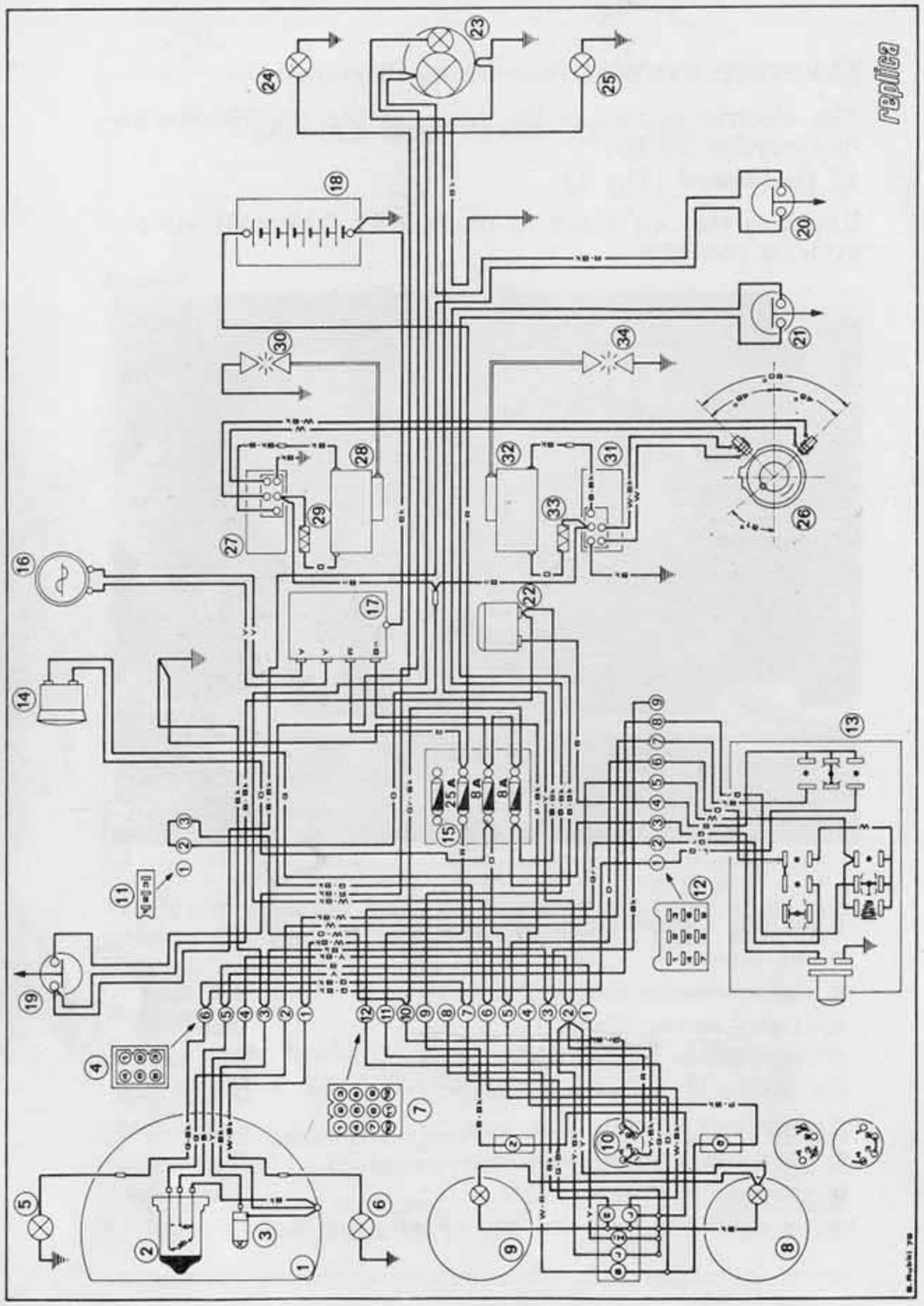


Fig. 1

1) Km.-Mile speedometer or two-scale instrument
2) Rev. counter
3) « Stand » warning light . . . . . Red color
4) « Light » warning light . . . . . Green color
5) « High Beam » warning light . . . . . Blue color
6) « Left » (L.H. flasher) warn. light . . . . . Orange color
7) « Right » (R.H. flasher) warn. light . . . . . Orange color
8) « GEN » (inserted key) warn. light . . . . . Red color
9) « Neutral » (N. gear) warn. light . . . . . Green color
10) Key switch with three positions: « Parking-Stop-Run ».



900 Replica

1 - Faro anteriore ∅ 170
2 - Lampada H4 - 12 - 55/60W
3 - Lampada di posizione 12V - 3W
4 - Connettore per faro a 6 vie
5 - Indicatore di direzione ant. destro 12V - 21W
6 - Indicatore di direzione ant. sinistro 12V - 21 W
7 - Connettore per cruscotto a 12 vie
8 - Contachilometri o contamiglia
9 - Contagiri
10 - Interruttore di sicurezza a chiave
11 - Connettore a tre vie per comando destro
12 - Connettore a 9 vie per comando sinistro
13 - Comando sinistro: luci - lampeggio - indicatori - claxon
14 - Claxon
15 - Scatola fusibili
16 - Alternatore 12V - 200 W
17 - Regolatore elettronico 12V a ponte
18 - Batteria YUASA B68 - 12V - 36Ah
19 - Interruttore stop anteriore
20 - Interruttore stop posteriore
21 - Interruttore per spia folle (Neutral)
22 - Intermittenza 12V - 40W
23 - Luce di pos. post. - arresto - targa 12V - 5/21W
24 - Indicatore di direzione post/destro 12V - 21W
25 - Indicatore di direzione post./sinistro 12V - 21W
26 - Pick-up (visto dall'interno del coperchio)
27 - Centralina elettronica cil. verticale
28 - Bobina A.T. cilindro verticale
29 - Resistenza cilindro verticale
30 - Candela cilindro verticale
31 - Centralina elettronica cil. orizzontale
32 - Bobina A.T. cilindro orizzontale
33 - Resistenza cilindro orizzontale
34 - Candela cilindro orizzontale

COLORI DEI CAVI E RELATIVI CODICI

B	=	Bleu
Bk	=	Nero
R	=	Rosso
W	=	Bianco
Y	=	Giallo
G	=	Verde
O	=	Arancio
Gr	=	Grigio
R-Bk	=	Rosso-Nero
R-W	=	Rosso-Bianco
W-Bk	=	Bianco-Nero
W-O	=	Bianco-Arancio
G-Bk	=	Verde-Nero
Y-Bk	=	Giallo-Nero
B-Bk	=	Bleu-Nero
P-Bk	=	Rosa-Nero
GrBk	=	Grigio-Nero
Bn	=	Marrone
L-G	=	Verde chiaro
Bk-Bn	=	Nero-Marrone

900 Replica

1 - Headlight ∅ 170
2 - H4 - 12 - 55/60W bulb
3 - 12V - 3 W parking light
4 - 6 - pos. headlight connector
5 - 12V - 21W R.H. front flasher
6 - 12V - 21W L.H. front flasher
7 - 12 - pos. dashboard connector
8 - Miles or Km. speedometer
9 - Rev. counter
10 - Safety key switch
11 - 3 - pos. connector for R.H. control
12 - 9 - pos. connector for L.H. control
13 - L.H. control: lights - flashing - flashers - horn
14 - Horn
15 - Fuse box
16 - 12V - 200W Alternator
17 - 12V electronic bridge regulator
18 - YUASA B68 12V - 36Ah battery
19 - Front stop switch
20 - Rear stop switch
21 - « Neutral gear » light switch
22 - 12V - 40W Flash device
23 - 12V - 5/21W tail light - stop - plate
24 - 12V - 21W R.H. rear flasher
25 - 12V - 21W L.H. rear flasher
26 - Pick-up (seen from the cover inside)
27 - Vertical cylinder electronic device
28 - Vertical cylinder H.T. coil
29 - Vertical cylinder resistance
30 - Vertical cylinder spark plug
31 - Horizontal cylinder electronic device
32 - Horizontal cylinder H.T. coil
33 - Horizontal cylinder resistance
34 - Horizontal cylinder spark plug

CABLE CODES and COLORS

Blue
Black
Red
White
Yellow
Green
Orange
Grey
Red-Black
Red-White
White-Black
White-Orange
Green-Black
Yellow-Black
Blue-Black
Pink-Black
Grey-Black
Brown
Light green
Black-Brown

2) ELECTRIC CONTROLS ON THE HANDLEBAR (Fig. 2)

Electrical controls are grouped into one only device placed L.H. on the handlebar and they are meeting all International Traffic Regulations:

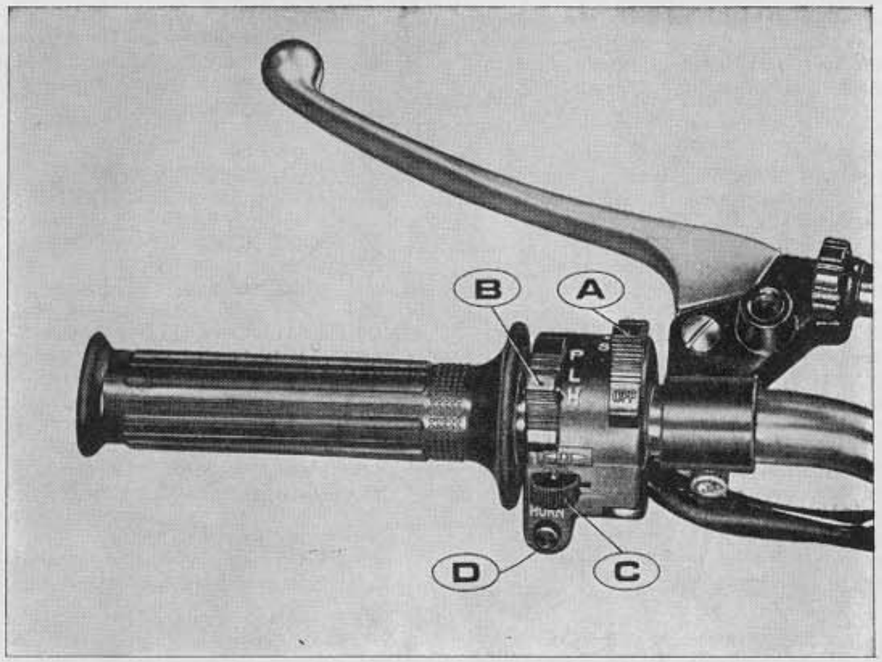


Fig. 2

« A » switch: Off, Parking, Lights.

« B » switch: High beam, Low beam and Headlight flashing.

« C » switch: Direction flashers.

« D » push-botton: Horn.

WARNING!

Newer disconnect the battery cables with engine running, since regulator should be damaged inevitably.

PETROL FEED

On these motorcycles having two high performance « conical » silencers, the petrol feed of the engine is by gravity, by means of 2 Dell'Orto carburetors, PHM 40, with inlet horns.

Carburetor	Atomizer	Difluser	Main jet	Idling jet	Pin position
FRONT PHM 40 D	265 AB	40	152	60	K4 2nd notch
REAR UHM 40S	265 AB	40	152	60	K4 2nd notch

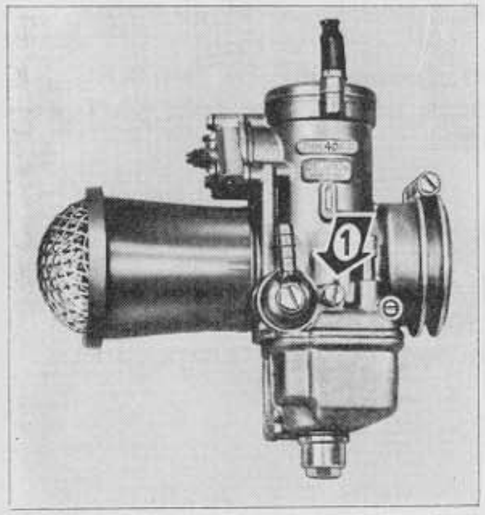


Fig. 3

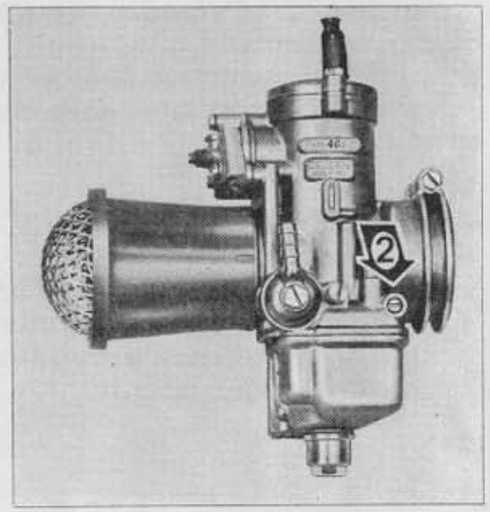


Fig. 4

ADJUSTMENT OF THE IDLING

Whatever the carburetor type, adjustment must be arranged (with hot engine) acting on both carbs, as per instructions hereunder:

1) screw throttle stop screw "1" until you get a rather high tickover (see fig. 3).
2) then screw or unscrew the mixture adjusting screw "2" to obtain the fastest tickover (see Fig. 4).
3) then progressively undo throttle stop screw "1" until tickover settles at 800/1000 r.p.m.

NOTE: Mixture screws should be turned in to weaken mixture and out to richen mixture.

ELECTRIC SYSTEM

The electric system diagram is similar to the 900/SS DARMAH motorcycle one. In comparison with this, the electric starter and R.H. handlebar control are missing, being useless for a motorcycle of this kind.

SADDLE

In the first 200 motorcycles made, saddle is of two kinds: single-seat of standard equipment and two-seat as optional, on demand.
In next production motorcycles, saddle will be two-seat, easily transformable into one-seat, adding the rear part.

FUEL TANK

Fuel tank has a capacity of 18 lt. Of anatomical shape specially studied for a correct racing position or rider. This styling represents a valid solution between shape and capacity requirements.

DIMENSIONS mm.					WEIGHTS Kg.	
Length	Width	Wheel-base	Height	Saddle height	Unladen mtc. (dry)	Fully load mtc. (driver & passen.)
mm. 2200 (86,6'')	700	1510	1280	800	205	363

PERFORMANCES				
Suggested petrol or equivalent	Consumption (CUNA regul.)	Fuel distance Km.	Max. speed Km/h. (about)	Maximum r.p.m.
AGIP Super	5,8 lt/100 Km	300	220	7500