INSTRUCTION MANUAL FOR MASERATI
3500 G.T.

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PREFACE

In this booklet we have briefly gathered the main principles covering this car, together with informations for the knowledge and for the normal operations of use and maintenance of the car. In order to abtain the bestresults from the car as far as minimum cost, long life and best performance are concerned, one should bear in mind the suggestions given in this book. For those operations and repairs not easely done with normal tools at one's disposal (supplied with ordinary tool kit), as well for complete or partialousphadling, we suggest those Owners, in their own interest, to ovail themselves of the services of our Agents who will look to the prompt, accurate and rational execution of any job of repair or overhauling. All spare parts must be original for the best functionning resukts.

Engine and chassis numbers must be givenwhen ordering spares.

DATA FOR IDENTIFICATION OF A VEHICLE

Each car is ifentified by special nimbers, i. e. :

AM	101	 ☆.	•	•	•	•	.☆
	101						
	101						

The chassis serial number is stamped on the right hand side of the cross member and on both sides of this number appear the Maserati trade mark.

The engine number is stamped on the clusch housing near the starting motor.

These numbers, for easy reading, are repeated on two plaques mountedon the radiator shroud, and are the only ones suitable both for identificatio and sale of the car, they also appear on the certificate of origin and on the registration certificate.



SPECIFICATIONS

Number of cylinders	6 im line 86 x 100 mm.
Individual Cyl.oapacity (35,4 cu. inch) Total capacity (212 cu. inch)	580,88 cc. 3485,29 cc.
Max.pewer at 5800 rews/min. Injection " " " Carburettors	235 CV. 220 CV.
Taxable power	33 CV.

Cylinder block is of light alloy with liners of special cast iron. Cylinder head is made of a light alloy with overhead valves, in which the valve seats have been inserted. -

Combustion chambers are hemispherical.

The orankshaft is dynamically balanced and is supported by seven lead-indium alloy bearings.

The conrods are made of forged steel in H section with the bigend bearing made of lead-indium alloy.

The little end bearing is a bronze bush.

Pistons are made of light alloy with two compression rings and two oil rings.

Crankshaft has a torsional damper.

DISTRIBUTION

The inclined valves in the head are actuated by 2 overhead camshafts driven by a 3 - cog chain.

Valves are operated directly by the camshaft with the interposition of a small steel tappets operating in cast-iron seats.

Valve clearance is by means of casehardened steel inserts, which may be easily replaced.

The proper clearances (cold) between tappets and the base radius of the lobe of cam are 0,1 mm inlet and 0,20 mm exaust. This will give the following data:

lift of the inlet valve at top dead centre: 1 mm (0,004) lift of the ex. valve at top dead centre : 0,9 mm (0,039)

INTAKE COLLECTOR

The intake collector is a light alloy made, with water chamber for the warming up of the mixture.

In the hot seasons or in normaly hot areas, the water should not circulate inside the collector.

This is to improve the engine performance and make starting easier.

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FÜEL FEEDING - INJECTION

The Feed is obtained by fuel being injected inside the intake collector, (Indirect injection).

This is achieved by a Lucas fuel pump, distributor, and a centrol unit.

The pump is electrically driven and it is capable of compressing the petrol to a pressure of 7 atmospheres.

The pump performance is very satisfactory, absorbing 60 watts only, with a fuel flowing capacity of 130 liters/h. to a pressure of 7 kgs. per cm.² (Squared centimeter).

The pressure brings the fuel to a unit which is called "the distributor".

This distributor distributes the pressure to the appropriate injector, causing it to open, permitting a very precise fuel metering into the cylinders, in exactly the amount required by the engine, according to the setting of the control instrument. The distributor has the advantage of not employing heavy components with alternate metien, nor elastic or return adjustments, the little cylinders being operated by pressure.

Figure no. 1 shows the distributor scheme.

One can note how the motion of one rotor, bearing certain holes, connects the little cylinders alleys with the pressure and how the rotor itself, with a further rotation, connects the same amount of pressured patrol with the tubing which conveys the fuel to, the injector.

This system is particulary simple.

Also the control system, which determines the amount of fuel conveyed inside the intake ports according to the amount of air inspired by the cylinders, is very simple, as well as its adjustment.

The adjustment is effectuated by means of rollers or springs, the flexibility of which has a considerable importance.

Figure 2 shows the control scheme and particularly, at point A, B, C, the coupled reliers determining the variation of motion of the distributor cylinders.

Points D, E, show the springs which wary the rollers operating place, on the plane.

The position and influence of springs D, E, are particularly important, since they determine the depressure capacity curve. Rollers A, B, C, are only the elements providing the flowing capacity amount.

The control element is also equipped with a fuel flowing varietor, the performance of which is given by the Barometric depressure. Oil lubrication of the injection system is provided by a slightly higher pressure then fuel's.

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The distributor element is equipped with a constant level pump. with a pressure adjusting valve, which prevent fuel escape throughout the rotating components.

STARTER

In the winter season an easier starting of the cold engine is obtained by an additional amount of injected petrol and air which helps winning the cold engine friction, and permits the engine normal idling in the cold season as well.

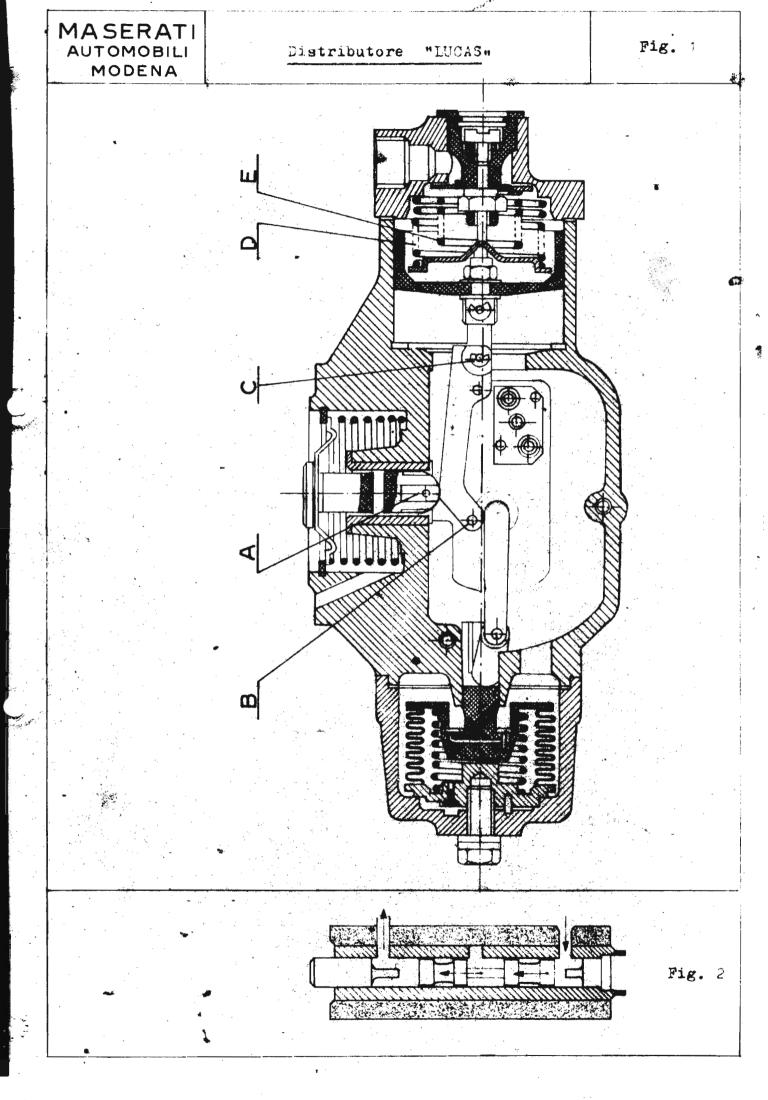
This additional amount of air and petrol is obtained by operating a dashboard switch (choke) which can increase the mixture to three times the normal amount.

It is up to the driver to gradualy reduce this feed enreachment, setting the switch bach to zero position, as seen as the engine is perfectly hot.

SAFETY SWITCH

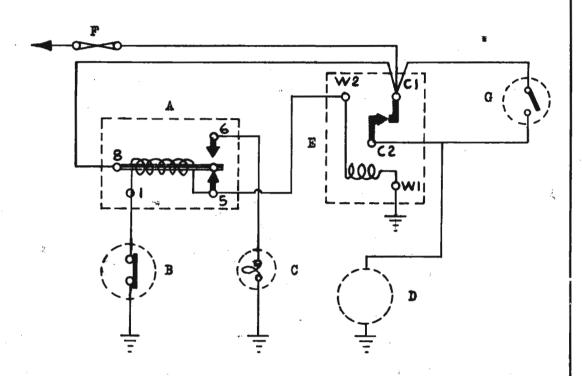
If the engine does not come into life when setting the starting key on, a safety System causes the authomatic disconnection of the fuel feeding pump and, centemporaneously, a red warning light lights up on the dashboard.

The safety system is operated also when the engine oil pressure cut down beneath the 0,5 kgs. per cm.2 (squared centimeter). To rewed the pump into action, push the warning light button. An additional switch, situated under the dashboard, eliminates the safety system efficiency, should this become defectable, and connects the pump directly with the ignition switch.





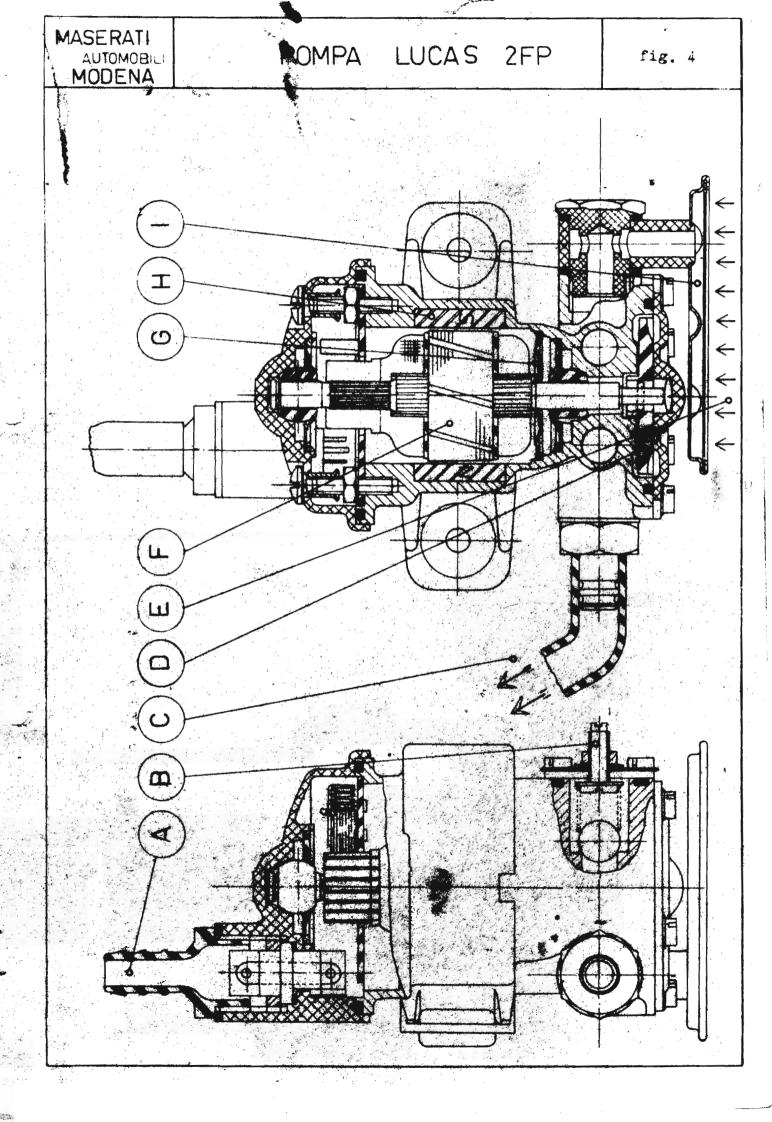
SAFETY DEVICE FOR INJECTION PUMP



- A Thermical switch
- B Pressure switch (switch off pressure 0,5 atm.)
- C Push button warning light
- D Injection pump with filter (maximum sensumption 5 Amp.)
- E Relais

- 9-35 - 100

- F 11 fuses (inside the fuses box beneath the dashboard)
- G Safety switch (on the left section of the panel, beneath the dashboard)





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FUEL FEEDING CARBURETTORS

The fuel feeding is provided by a 2 FP Type LUCAS pump (fig.4) which is sunk in the tank.

The 2 FP pump sucks fuel through one filter (I) situated on the button of the tank (E) and conveys it with pressure the to carburettors (C) eliminating in such a way the inconveniences oaused by stagment gas in the tubes.

The fuel is cenveyed to carburettors through a centrifugal pump

(D) in line with an electric motor (F) running at 2900 RPM.

The quantity of fuel conveyed varies from 130 to 230 Lt. per hour, in accordance with pressure.

Pressure is mantained constant by an exaust valve. (B) but can be varied by a screw with nut from 0 to 0.4 Atm.

The pressure is regulated at 0,25 Atm.

The pump is iselated and gets electric current, from two wires which gothrough the higher part of the pump and are protected agaist fuel infiltration by a flexible tube fixed to the pump and to the tank.

The fuel filter is situated on the rear right side of the oar, and its element (cartriage) is easily replaceable.

Carburattors are Weber 42 DCOE 8 tipe, with double body, mechanioal pump and starter.

The three double carburetters suck airthrough a single widecapacity air filter, with catalytic action.

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LUBRICATION

Lubrication is by forced circulation through all the main components of the engine, and is obtained by means of a rotor pump situated inside the sump.

The pump sucks ell from the sump, passes it through a filter and then sends it to the components to be lubricated.

To ensure a low oil temperature a small helical pump, immersed in oil, and driven by a V belt circulates the oil through an oil radiator which is situated next to the water radiator.

The oil filter is located on the right side of the engine block and is desmontable from underneath the car.

The normal oil pressure from low to high revelutions is of 3 - 5 kiles per sq. om. (80 - 100 lbs. per sq. inch.).

This pressure is controlled by means of a pressure relief valve installed in the oil filter agating.

OIl is reliated through the pipe union situated on the front of the eil eylinder head.

The level is ascertained by means of a dipstick inserted into the pipewhich is situated on the left hand of the sump under the exaust manifold.

COOLING SYSTEM

Engine cooling is obtained by circulating water through an Contributed pump and a electromagnetic ventilater, the action of which is regulated by a thermometric switch situated on the radiator.

The ventilator comes into action when the water the persture is 759 / 86* degrees.

The water flewing through the radiator is also assessaticaly regulated by means of a thermestat, fitted on the waine head, This arsten permits an Essily heating of the engine, specially st starting.

The water temperature is checked by means of an indicator on the dashbeard which is connected with a tube inserted inside the upper section of the radiator.

The water temperature should not exceed 90° degrees.

The draining water tep is placed in the lewer section of the redictor.

Radiator capacity is approx. 14 liters. To the wester is 'added 1 % of emulsifiable oil.



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IGNITION SYSTEM

The distributor is situated on the front right hand side of the engine, driven by a pair of heliocidal gears and by a battery. The distributor is a Marelli S - 87 A 12 V 15° (Destro) with automatic advance.

The spark is set at 12° advance. (on orankshaft)
Range of automatic advance is 30° (on orankshaft)
Max. total advance of the coil ignition is 42°.
Firing order is 1-5-3-6-2-4.

The gap between the breaker points is 0,4 mm. (0,016 in) .016 Cap between spark plug point is 0,5 mm. (0,02 in) .020 Diameter and gauge of the plugs are 14 x 11,25 mm. Marelli type B Z R 201 A ooils.

CW 240 L Spark plugs for light duty : Narelli Besch W 215 P 21 Lodge 2 HL or 3 HLN Champion NA 10 KLG FE 80 Marshal 34 HF CW 230 LPS for heavy duty : Marelli W 215 P 21 Besch

Besch W 215 P 2
Champien NA 12
Lodge 47 RL
K L G FE 250
Marshal 33 HFS

STARTING

The starter motor is a Marelli type MT 23 A CV 1,2 Starter is operated by means of a key switch on the dashboard.

ENGINE MOUNTS

Engine has an inclination of 4° to the vertical-lengitudinal plane, and is effect 38 mm. to the right-hand side.
Engine is mounted on 4 pilentblocs.

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TRANSMISSION

Clutch - The dray spring-leaded single-plate clutch is hydraulically exercted by two little pump: one is a 3/4" pump on the pedal and the other is a 7/8" pump on the clutch.

The pedal travel is regulated by means of a screw nut situated on the strut of the inlet side of the pump.

GEAR-BOX - There are 4 or 5 forward speed and a reverse ones. There is syncremesh in all ferward gears.

The gear lever is situated directly on the top centre of the gear bax.

Gear raties	1	٠.	Mormal		
	1	ratio	0,331	**	3,02
Å.	2	**	0,540	28	1,85
	3		0,776	=	1,29
• • • • • • • • • • • • • • • • • • • •	4	**	1	*	1
	5	•	1,18	*	0,85
	Re	Verse	0,315	*	3,-17

AXLE

Mear axle is a rigid hypeid - bevels.

The normal reduction	ratio	is	:						3,77
It can be substitued	by		3 ·		3	1	43		3,31
				1	3	1		*	3,54
				_ _} 1	1	1	1		3,31 3,54 4,09

CHASSIS

Principal dimension :

Front tread . Bear tread .					1390 1360		(54,3 in.) (53,5 in.)
Wheel base	Coupé S. Couvertible	•	•	•	2500		(102,3 in.) (96,4 in.) (98,4 in.)
Ground clearen Weight of the Weight laden	empty car .	•	•		1300	kiles	(5,1 in.) (2750 lbs.) (3100 lbs.)

The frame is exceptionally rigid and is made of longitudunal and transverse members, which are tubelar and eliptical in shape. The size and strength of these members is proportional to the stress which they will undergo.

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FRONT SUSPENSION

Front suspension is a quadrilateral transverse type with coil springs and with pivote acting on rubber suspensions. Telescopic shock absorber type Girling F 4.5 or Keni 82.1019. There is a transverse stabilizer bar to Engle.

REAR SUSPENSION

Rear suspension is by Cantilever leaf springs, with 2 Girling 7.5 sheek absorbers.

There is a transverse stabilizer bar which steadies the car when cornering.

STEERING

The steering box is mounted on the left hand side and is of the type with variable play.

It is eperated through a column with a flexible joint to dampen vibrations, and acts directly on the steering bars through a double lever.

The tee-in of the front wheels is between 5 and 6 mm. The min. turning radius is 6 meters (20 feet).

BRAKES

The brakes are hydraulic soting on all four wheels with 306 mm. dismeter disc brakes at the front and 291 mm. dismeter disc brakes at the front and 291 mm. dismeter disc

The braking surface in the front wheels is 294,5 squared inches and 186 squared inches in the rear.

The adjustment of the brake pads is automatical.

A second mechanical braking system, operates on the rear disc

This braking system is used as an additional safety braking, when parking, by pulling a hand-lever.

The braking system is equipped with a vector centrel situated on the right hand side of the engine which reduces the foot pressure required on the brake pedal to a minimum.

A vector of approx; 280 mm of mercury is obtained in the servo brake shamber by connecting this unit to the inlet menifold of the engine.

WHEELS

The wheels discs are 550 X 16, perferated and attached to, the hub by means of 4 stud bolts.



TYRES

Front and rear : Pirelli 185 x 16"

Cold inflation pressure for front 1,7 Kg/cmq = 24 lb/sq. in.
max speed of 100 ml/h rear 1,9 Kg/cmq = 27 lb/sq. in.

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Inflation pressure for speed more than 100 ml/h not : front 2,1 Kg/cmq = 30 lb/sq. in. lengway on normal roads rear 2,3 Kg/cmq = 33 lb/sq. in.

Inflation pressure for speed more than 100 ml/h : rear 2,4 Kg/cmq = 34 lb/sq. in. longway on motor roads

ELECTRICAL SYSTEM

Battery: The battery is located in the boot and is essily

accessible.

Capacity: 64 amp/h - 12 volts Type: Marelli - 6 VL 7

Generator:: Marelli DN 63 A type, with a voltage regulator.

It is situated on the left hand side of the engine and it is operated from the crankshaft through an adjustable V Welt. Normal output 400 W. Rotation is right from the front.

Starting : Marelli type MT 23 A 1,2 12 D9. motor

HORN

2 Electric - MIXO TR - 100 Horns operated by means of a button in the centre of the steering wheel.

FUSES

The 12 electric fuses of the electrical system are located together on a small fuse board which, for sake of convenience, is situated under the dash - board on the right - hand side, easyli accessible.

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HEATING AND VENTILATION SYSTEM

As it is shown in the annexed print, table V, this system consists of :

One side conductor with electric fan (1), one centrifugal ventilater (2), one conductor for air distribution (4), one radiator (3) and one dynamical air inlet tube.

This system is very simple and can be used in several ways.

When used as ventilation system while the car is running, the dynamic air goes with pressure through the main threttle and the secondary throttle, and blows inside the car through three outlets, operated beneath the dash-board.

In these conditions additional air is blown inside the car also through the ventilator and radiator.

Should the dynamic pressure be unsufficient it is advisable to close the secondary throttle and to operate the ventilator.

Heating system: epen the water tap (11) operating the lever on the dash-beard. Open the air main throttle (6) and close the secondary throttle (7).

The air going through the radiator can be increased by operating the ventilators.

For heating the car without taking outside air, close the main threttle (6) abd open the secondary threttle (7) and operate the ventilator.

With the ventilator in action the air inside the car will be sucked from outled (9) and circulated through the radiator untill it has heated up to the desired temperature.

With outlet 8 open air circulation is easier.

Defrest: The air conductors to rear glass (12); are allways open, and to obtain a quick demist it is necessary to close n. 8 - 9 - 10 outlets and operate the heating system.

Het water circulation and throttle operating levers :

- (13) Operating lever for main threttle (6) (When the lever is all the way up the throttle is closed).
- (14) Operating lever for secondary shaft (7)-(When the lever is all the way up the throttle is closed).
- (15) Het water circulation tap operating lever (11) (When the lever is all the way up the tap is open).
- (16) Ventilators switch.

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HEATING AND DEFROSTER

The oar is equipped with complete ventilation and heating system which, besides improving the condition of the temperature into passenger's compartment, prevents at the same time the formation of frest on the windscreen.

The heater, which is illustrated in the annexed scheme, consists of the following parts:

- 1 Het water inlet in the radiator
- 4 Radiator group
- 5 Regulator's centrel for water circulation
- 6 _ Throttle's control and ventilater introducing air in the radiater.
- 8 Threttle's control and ventilater on driver's side.
- 10 Redister's door
- 11 Water outlet from the radiator
- 12 Threttle directing air flow to the radiater
- 14 Air inlet on driver's side
- 15 Water switch

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- 16 Threttle centrelling eir inlet en driver's side
- 17 Air inlet to radiator with ventilater
- 18 Air inlet on driver's side with wentilater
- 19 Water return on motor pump intake
- 20 Het water inlet on the head of the engine
- 21 Hot air autput ventilator
- 22 Regulater for warm water flow.
- 23 Air on the front windscreen
- 24 Air switch on the rear window

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OPERATING

Working of the heater is based on introducing het or cool air in the inside of driving compertment by means of conductors with frontal inlets (17 - 18) which are equipped with ventilator with an electrical meter, and output of het air under the bennet with ventilator (21).

The redistor (4) through which sir increase is thermic content, consists of a pipe installation where the hot water of the engine is circulated and is drawn out at warmest point (20) of the outlet nessle from the head and is circulated again on the intake conductor of the meter's pump (19).

Circulation of hot water is obtained by means of the lever (5) on the central panel, which operates on a plug-governor (22). The muxiliary tap is near the water pump and must be closed in warm weather (15).

After a few minutes running of the engine, the meter will be hot enough to be able to heat up the air which may then be introduced by epening the induction throttle (12) by means of the lever (6).

On this inductor the ventilator is engaged by the same lever (6) as which time it sotuates the automatic cuteut.

The other air inlet is (18) equipped with electric ventileter, which are operated by the lever (8).

which are operated by the lever (8). Directed areas driver's feet by conductor (14) .

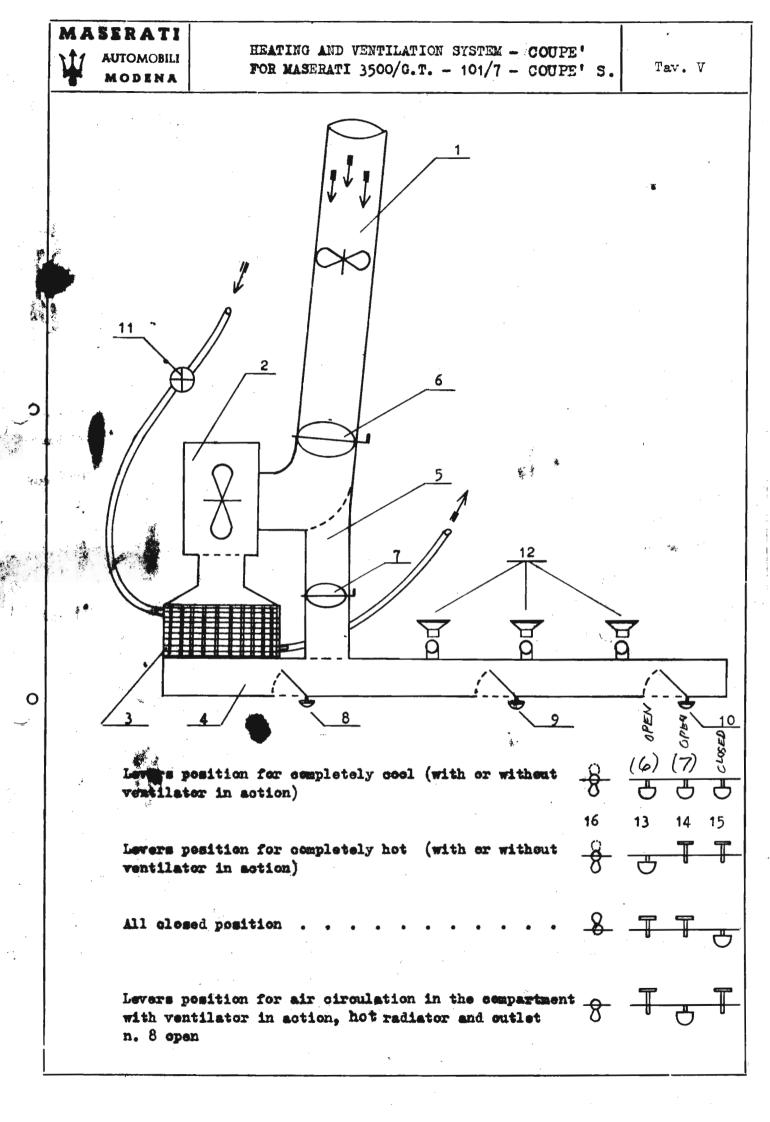
The left hand ventilator is actuated by 50 W electric meter which extracts work air from the engine compartment to the exterior via the left hand gralls.

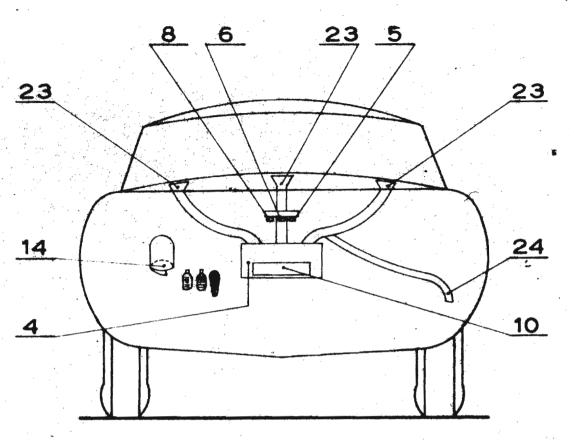
this blower is started when lever (8) is depressed all the way and

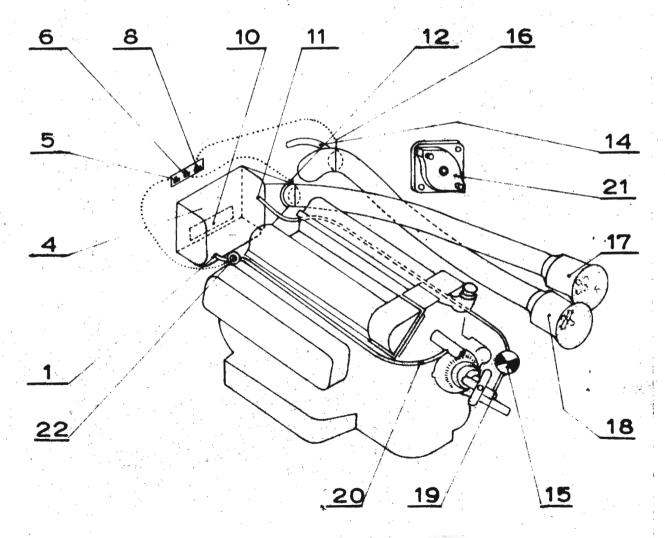
In other words the electrical ventilators (18 - 19 - 21) are respectively sperated by the levers (8 - 6) when depressed to their lowermost position.

Their running is indicated by three pilet-lamps, placed on the dashboard in relation to each lever.

For greater security the three fans can only be operated when the sers! ignition switch is on.







IMPIANTO DI VENTILAZIONE R. RISCAMAMENTO
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PERFORMANCES OF THE VEHICLE WITH 4 AND 5 FORWARD SPEEDS

SPEED - MILES / h - (With 4 ferward speeds)

Engine	1 st Gear	2 nd Gear	3 rd Gear	4 th Gear	
revs.	0, 333	0,544	0,770	1	
1000	7,74	12,77	18,06	23,5	
1500	11,73	19,16	27	35,2	
2000	15,48	25,54	36,12	47.0	
2500	19,47	31,93	45,06	58,0	
3000	23,46	38, 32	54	70.4	
3500	27,21	44,60	63,12	82,2	
4000	30,96	51,08	72,24	94.0	-A.
4500	34,95	57,47	81,18		
5000	38,94	63,86	90,12	117.4	
5500 -	42,69	70,24	99,06	129.1	2

SPEED - MILES/h

(With 5 ferward speeds)

				1 12 54	
Engine	1 st Gear	2 nd Gear	3 rd Gear	4 th Gear	5 th Gear
revs.	3,02	1,85	1,29	1	0,84
1000	6,85	11,2	16	20,7	24,7
1500	10,37	16,8	24	31,05	37
2000	13,7	22,4	32	41.4	49,4
2500	17,22	28	40	51,75	61,7
3000	20,74	33,6	48	62,1	74
3500	24,7	39,2	56	75,45	86,4
4000	27,4	44,8	64	82,8	98,4
4500	30,9	50,4	, 72		111,1
5000	34,44	56	80	103.5	123.4
5500	37,9	51,6	88	113.8	135.7
6000	41,18	77,2	96	124,2	148

At high speed the above specifications are to be multiplied by the tire expansion coefficient which is caused by the centrifugal force.

The above perfermances are given by the fellowing models: Coupé, Coupé S., Convertible.

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MAINTENANCE

The nermal maintenance operations have been listed hereunder as follows: - (after the first 500 km. or 300 miles the differential oil must be changed)

EVERY 1000 kms. (600 MILES)

- Engine : Check oil level and refill if necessary.
- 2 Radiator : Check water level and rafillo if necessary, preferably with distilled water and 10 emulsifiable oil.
- Tyres : Check pressure.

EVERY 4000 kms. (2400 MILES)

- Engine ; Change oil and change eil filter cartridge.
- Water pump : Lubrificate with greece nipple. Dont exceed a pressure of 0,2 - 0,3 atmospheres.
- 6 - Front suspension pivets - Lubricate by means of the special greese mipple.
- 7 Transmission junctions: These are to be lubricated by means of the grease nipples.
- 8 - Steering and articulated joints: lubricate by means of the grease nipples and check oil level in the steering bex.
- Rear wheel hub : Lubricate by means of the grease nipples.
- 10 Clutch : Check oil level in the tank of the pump and if necessary top up.
- 11 - Battery : Check level of distilled water and top up.
- 12 - Brake master cylinder : Check the level and if necessary add brake fluid.
- 13 - Spark plugs : Clean and set the points to a gap of 0,5 mm (0.02).
- 14 - Distribution points : Clean and set the gap to 0,4 mm(0,015)
- 15 - Generator belt : Adjust the tension.
- 16 - Timing chain : Check-and adjust tension.
- 17. - Water pump packing gland : Make sure that it is water tight and if necessary replace it.
- 18 Cluth pedal free play: Make sure there is 10 mm. (0,4 in) travel in the pedal before the clutch starts to disingage. Free play elutch pedal should be 10 mm (0,4 in)
- Brakes : Automaticaly adjusted. 19
- Steerin bex : Regulate the play by means of the screw bolt. 20 The max. terque strees not to exceed 107 (kilegrameters) (48 lb/fr).

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EVERY 10.000 KILOMETERS (6000 MILES

- 21 Ignition distributors : Dismentle and lubricate bearing and bushes.
- 22 Gear bex : Check level and if necessary tep up with oil
- 23 Rear exle : Check the level and if necessary top up with oil
- 24 Commutator: Inspect, clean and lubricate with special oil can grease, from side of driving belt.
- 25 Valves : Adjust valves clearance.
- 26 Brakes: Check the dismeter of the braking pads. Minimum dismeter shall be 7 mm. (iron guide included)
- 27 Hand Brakes: Lubricate the cable through The 3 grease nipples
- 28 Petrol filter: Check and if necessary replace cartridge.

EVERY 20.000 KILOMETERS (12.000 MILES)

- 29 Gear bex : Drain eil and refill.
- 30 Differential : Drain oil and refill.
- 31 Steering box : Drain oil and mafill.
- 32 Frent wheel bearings : repeak with grease.
- 33 Brakes : check pads and if necess replace then.

34 - Fer Carburettors cars : 2 F P Lucas Pump -

Check carbons and electric connector. Imjection pressure must be 0,25 Atm. and fuel capacity no less then 28 gallons per hour.

FURTHER DETAILS REGARDING THE OPERATIONS N.

8 - 15 - 16 - 18 - 19 REFERMED ABOVE

- 8 Steering: During the course of normal overhauling it is necessary to examine all steering parts in order to clean and lubricate the tiered joints as well as the steering box unit.
- 15 Generator belt Should the tension require adjustment, it is necessary to leasen the belt on the stirrup which is joined to the bettem of the generator, after which the required tension is obtained by moving the generator itself. The adjustment of the belt for the oil cooler pump if effected by removing one or more of the spacers on the driven (pump) pulley.

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- Timing chains: If after a certain period it is found necessary to adjust the timing chain tension unscrew the central nut helding the plate which is left of the engine block.

Remove the washer and locking dewel underneath using the proper extractor tool.

Turn the accentric, using a torque stress of approx. 0,1 Mgm. (0,75 lb. ft.) and lock it in the desired position by placing locking dewel in the adjustment heles which are new aligned.

- Clutch adjustment: The play between the clutch and the thrust disc which must be approx. 2,5 mm (0,1 in) will be eliminated by the wear of the antifriction material, which results in the slipping of the clutch itself.

 The inconvenience is eliminated by adjusting the play back to the original specifications by means of the adjustable tracer point situated on the second pump.

 The play of 0,1 in. on the thrust disc corresponds to 0,15, in. displacement of the pedal.
- Brakes When mounting disc brakes it is important to ensure that the disc braking surface and the pads are parallel.

 Only a few millimeters play is admitted.

 The resplacement of the brake pads, which with a moderate use of the car is normally effected after around 12.000, miles, is necessary when the antifriction material is worn out to a few millimeters diameter.

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CAPACITY AND CONSUPTIONS

The normal petrol consumption (according to CUNA standard) is 13 liters x 100 Km. (5,5 U S gallons x 100 miles)

Average commumption varies according to speed, road surface and amount of acceleration and deceleration.

It is advisable never to let the engine exceed 6000 rvs/min. The car can travel approx. 450 Km without refuelling (280 miles)

ITEM	CAPAC	CITIES REMARKS
Petrol tank	Gallons 20	SUPERCORTEMAGGIORE N.O. 98/100 R.M.
Rediator engine	Gallons 3,7	Distilled water if pessible
Engine sump	22 lbs	Winter: AGIP F 1 RACING SAE 30 Summer AGIP F 1 RACING SAE 50
Gear bex	3,3 lbs	AGIP F 1 ROTRA HYPOID SAE 90
Differential	4,2 lbs	AGIP F 1 ROTRA HYPOID SAE 140
Differential	4,2 lbs	AGIP F 1 BOTRA HYPOID SAE 90 for temperature less than 8° C under zero
Steering bex	0,44 lbs	AGIP F 1 ROTRA SAE 250
Master cyl. (brakes)	0,88 lbs	CASTROL WAKEFIEL GIRLING BRAKE FLUID AMBER (EXTRA HIGHT DUTY H 204/57)
Waster cyl. (clutch)	0,44 lbs	OIL LOKEED HYDRAULIC HEAVY DUTY
Bushes & bearings		AGIP GRASSO 951 or AGIP F 1 GREASE 30
Steering joints		AGIP F 1 GREASE 15

	LUBRICATION SCHEME SYMBOLS FOR TABLE X
	AGIP F 1 RACING SAE 30 : Winter AGIP F 1 RACING SAE 50 : Summer
90	AGIP F 1 ROTRA HYPOID SAE 90
250	AGIP FF 1 ROTRA SAE 250
\boxtimes	AGIP GRASSO 951 or AGIP F 1 GREASE 30
	AGIP F 1 GREASE 15
140	AGIP F 1 ROTRA HYPOID SAE 140

In countries where AGIP F 1 RACING SAE 30 and SAE 50 are not available use AGIP F 1 MOTOR HD SAE 40 and SAE 50, taking care to change this oil and filter element for the first time after not more than 600 miles.

MASERATI

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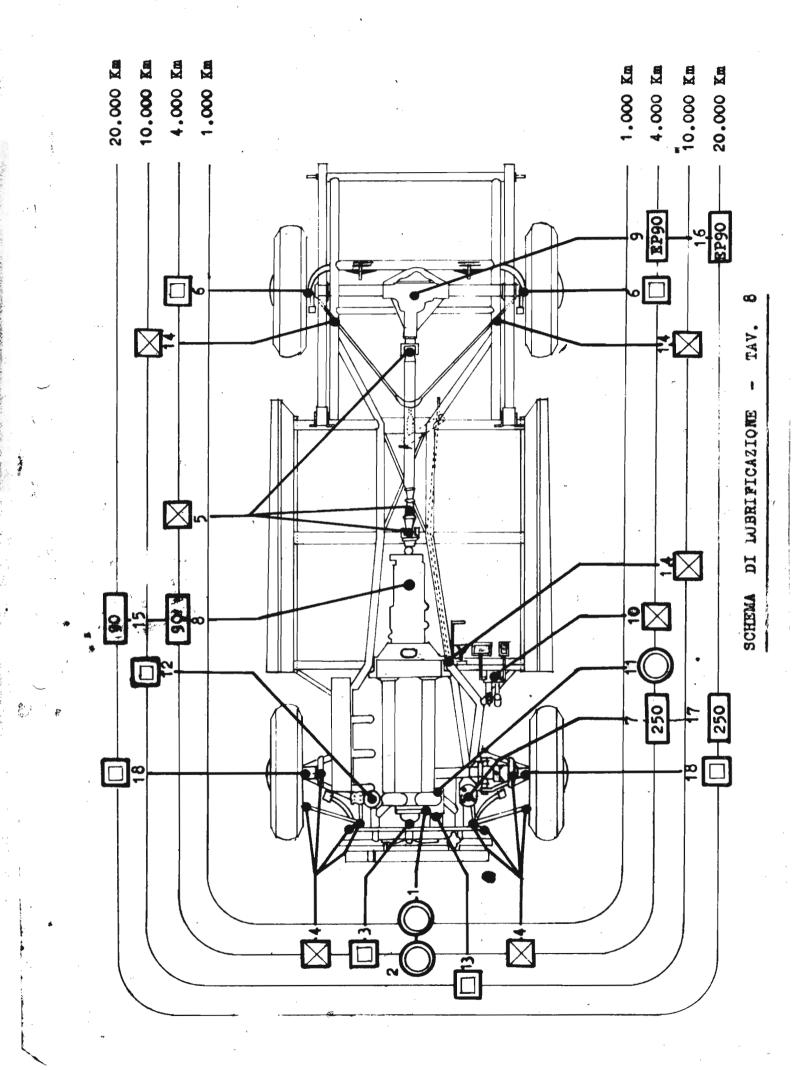
INSTRUCTION MANUAL FOR MASERATI 3500 G.T.

AUTOMOBILI MODENA

TAV. X - LUBRICATION SCHEME

No. Engine No Engine No Water pump 3 Steering unit and suspension No No Drive shaft points 5 6 No Rear end No. 7 Steering bex 8 Gear box No. No Differential Case 9 Pedels No 10 No Generator 11 No 12 Distributer Generator No 13 Hand Brake N. 14 No 15 Gear box N• 16 Differential case No 17 Steering box

Front hubs



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INSTRUCTION MANUAL FOR MASERATI 3500 G.T.

USE OF THE CAR

The car is delivered to customers after it has undergons a very strict test and a prolonged running-in of engine and transmission unit, and therefore it can be run to full especially without endangering its ultimate efficiency.

In this way it is not necessary to change the eil filter after the first 1000 kilemeters, as is usually dene with erdinary wehicles.

On earburetters models it is not necessary to fit looks to the earburetters.

- 1 Before driving off, it is advisable to shook and see if the petrol is of the advised octano contents, if the radiator and the engine sump are full, and if the tyres have the right pressure.
- to check if gear lever is in neutral, in such a position this lever can freely move from left to right.

 To facilitate starting of the engine when cold pull out the hand throttle and twist the key to engine the starter.

 Until engine is slightly warm, expecially during the cold season, avoid sudden acceleration but give the oil time to

While going through the normal starting operations, remember

- 3 When driving occasionally check the oil pressure gauge. In order to avoid clutch do not rest your feet on the clutch pedal when not shifting gears.
- 4 To switch off the engine, turn the ignition key.

warm up, sothat it may freely circulate.

5 - Winter precautions. If during winter months the vehicle has te remain standing outside in a temperature below freezing point, add antifrage to the water.

INSTRUCTION MANUAL FOR MASERATI 3500 G.T.

IRREGULARITIES AND REMEDIES

Engine will not start: if the battery is flat, it chould be recharged or replaced.

Engine too tight: oil is too dense or some part is too tightly fitted. (The latter case is possible when the car has been improperly overhauled by a non-specialist workshep).

Low voltage at spark plugs : damaged earth terminal, exidised contacts of the coil ignition (a very rare case).

Demaged pumps filters dirty or ologged.

Low compression: expessive scoring of the cylinders, or excessive wear, or valves not having a gas-tight fit, or valve adjustement too tight.

Oily spark plugs: heat range too cold or fouled by excessive attempts to start.

LACK OF POWER IN ENGINE

Low compression: the engine emits fumes from the cranck case breather pipe; the piston rings are wern or breken: replace same. Spark plugs with white insulating china: plugs tee het: replace them with recommended type.

Inserrect type of petrol: unless suitable antikneck petrol is used, self ignition takes place: the petrol is tee cold and therefore does not ignite at the proper time.

Incorrect engine timing: this can happen after an incompetent everhaul. Check and time.

Broken valve springs : the engine misfires.

Incorrect spark advance: check and reset according to the above data.

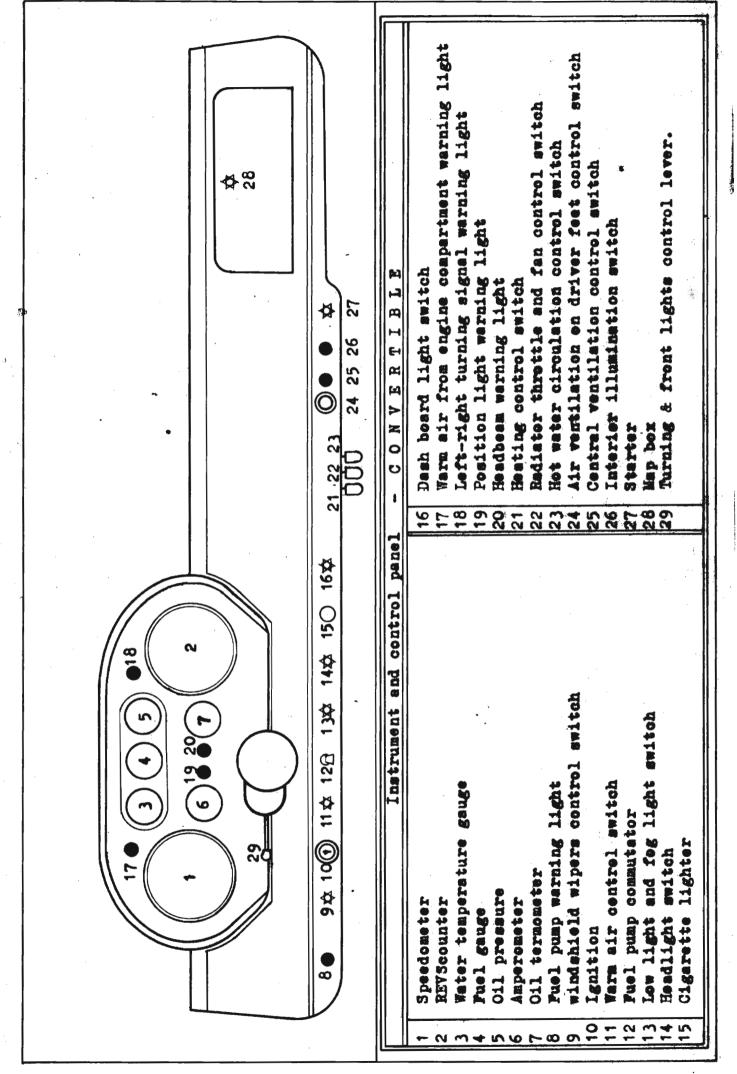
TOOL KIT

The tool kit supplies with the car contains :

- lack to lift the car
- 1 base on which to rest the jack
- 1 set of spanners ranging from 6 to 22 mm.
- spanner for sparking plugs
- 1 roll spanner
- 1 spanner for carburettors
- curved spanner for wheel nuts
- 1 steel hammer
- 1 pair Universal pliers
- 1 sorew driver

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FITTINGS

- N) 1 Front left headlight
 - 2 Front right headlight
 - 3 Position light and left direction light
 - 4 Position light and right direction light
 - 5 Left fog light
 - 6 Right fog light
 - 7 Direction indicator left
 - 8 Direction indicator left
 - 9 Electric horns
 - 10 Generator
 - 11 Under bennet and engine illuminating light
 - 12 Switch for the above light
 - 13 Ventilation fan magnet
 - 14 Magnetic thermical switch
 - 15 Engine housing ventilating meter
 - 16 Coils
 - 17 Starter motor
 - 18 Current connector
 - 19 Starter
 - 20 Windscreen wiper
 - 21 Switch for windscreen wiper
 - 22 Mileage meter
 - 23 Water thermometer
 - 24 Fuel Gauge
 - 25 Oil pressure counter
 - 26 Revolution Counter
 - 27 Red Warning light for flashing direction
 - 28 High beam indicator
 - 29 Red Warning light for generator
 - 30 Blue warning light for headlight
 - 31 Sliding contact of the hornabutton
 - 32 Electric watch
 - 33 Operating pannel for lights
 - 34 Switch for box light
 - 35 Bez light
 - de des ter regulator

 - 38 Deciolar relay
 - 39 Direction relay
 - 40. Chatral and

 - 42 Badta
 - 43 Switch for ceiling lights
 - 44 Switch for fog lights and low beam lights
 - 45 Operating pennel for lights

No 46 Cigarette lighter

> 47 Ventilator warning light

48 Ventilator magnet warning light

49 Ventilator switch

Thermical switch and injection pump warning light 50

51 Switch for reverse light

52 Fuses box

53 Button switch on right door for ceiling lights

54 Button switch on left door for ceiling lights

55 Left window regulator motor

56 Right window regulator motor

Left window regulator switch 57

Left switch for right window glass 58

59 Right switchfor right window glass

60 Steering column and control

61 Radio Areal

62 Battery

63. Ceiling lights

64 Lights with switch in the boot

65 Petrol level fleat

66 Left position and rear flashing lights

67 Right position and rear flashing lights

68 Left stop light

69 Right stop light

70 Left reverse light

71 Pressure switch

72 Number plate light

Flashing relay 73

74 Injection pump relay

75 Injection pump safety switch

76 Fuel pump

Instruments illumination rheest 77

FUSES BOX

for left high beam light Ι Fuse

II Fuse for right high beam light

Fuse for low beam light III

Fuse for pesition, warning, number plate and reverse IV

Fuse for left window regulator

VI Fuse for window regulator - right

Fuse for windscreen wiper and direction lights VII

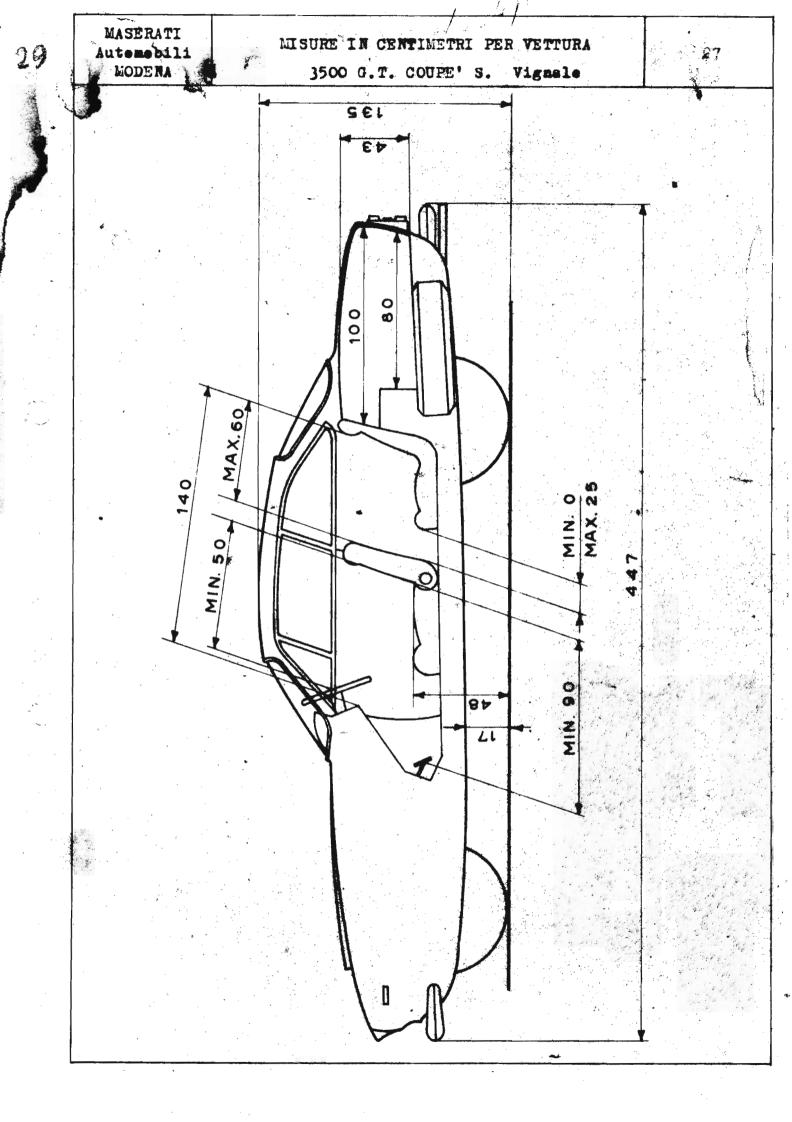
Fuse for interior lights, panel and watch AIII

Fuse for radio and cigarette lighter IX

X Fuse for ventilators and warning lights

Fuse for fuel pump XI

Puse for stop lights, generator, warning lights and XII. flashing lights.



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AUTOMOBILI

ELECTRIC EQUIPMENT FOR - COUPE' S.;

MODENA

1) Left front lowlight

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- 2) Right front lowlight
- 3) left front headlight
- 4) Right front headlight
- 5) Position light and left side flashing light
- 6) Position light and right side flashing light
- 7) left side flashing light
- 8) Right side flashing light
- 9) Electromagnet on the fan
- 10) Front motor for heating and ventilation
- 11) Alternator
- 12) Thermic switch for electromagnet
- 13) Air horn blower
- 14) Distributor for spark plugs ignition
- 15) Windshield wiper
- 16) Rear motor for ventilation and heating system
- 17) Lamps for illumination of engine compartment
- 18) Coils
- 19) Starter
- 20) Pressure switch on the oil ducts.
- 21) Water termometer
- 22) Fuel gauge
- 23) Oil pressure gauge
- 24) Ammeter
- 25) Oil termometer
- 26) Speedometer
- 27) RPM counter
- 28) Electric watch
- 29) Engine compartment illumination switch
- 30) Starting and ignition commutator
- 31) Relais for flashing light
- 32) Transistors regulator for alternator
- 33) Relais for Air horns
- 34) Stop switch on brakes system
- 35) Windshield wiper commutator to 2 pd speed
- 36) Red warning light for flashing light
- 37) Yellow warning light for rear defroster motor
- 38.) Green warning light for low light and position light
- 39) Blue warning light for headlight
- 40) Contacts on the steering column
- 41) Relais for flashing light
- 42) Deviolux for lights control
- 43) Relais for lowlight and position light
 - 44) Relais for headlight
- 45) Yollow warning light for ventilators and heating
- 46) Red Warning light for electromagnetic ventilator
- 47) Cigarette lighter
- 48) Instruments illumination recetat
- 49) Radio

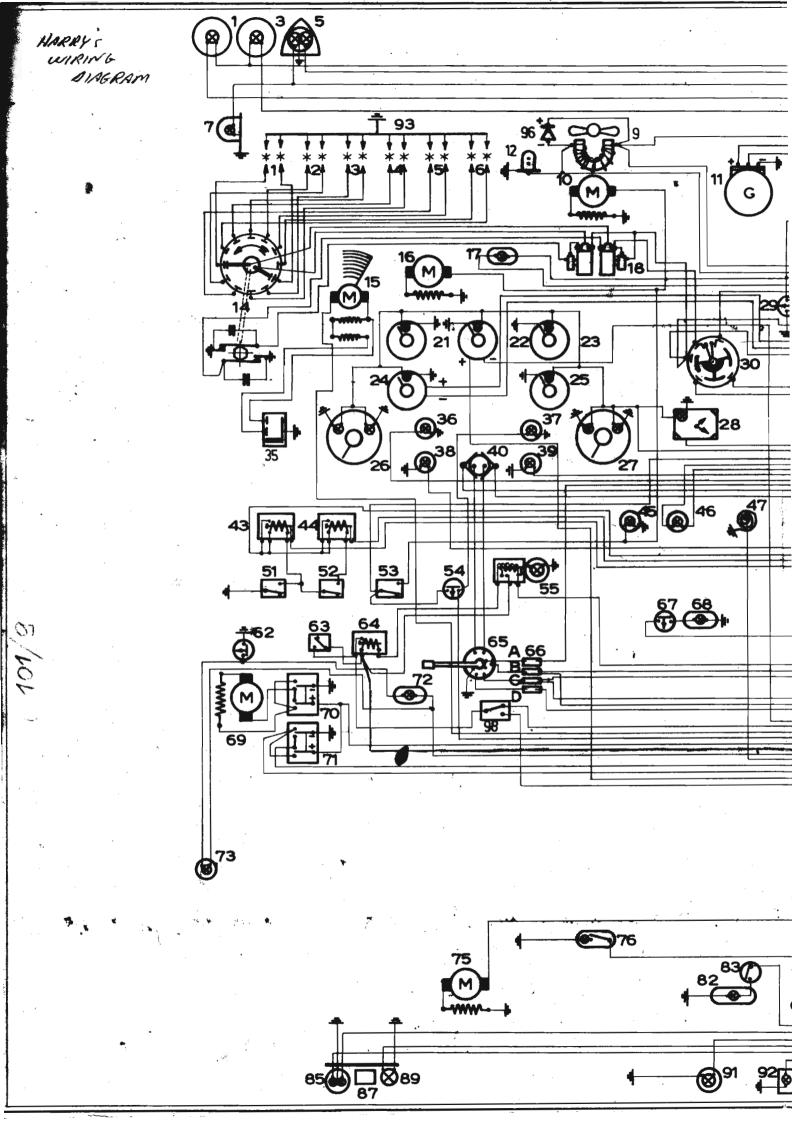
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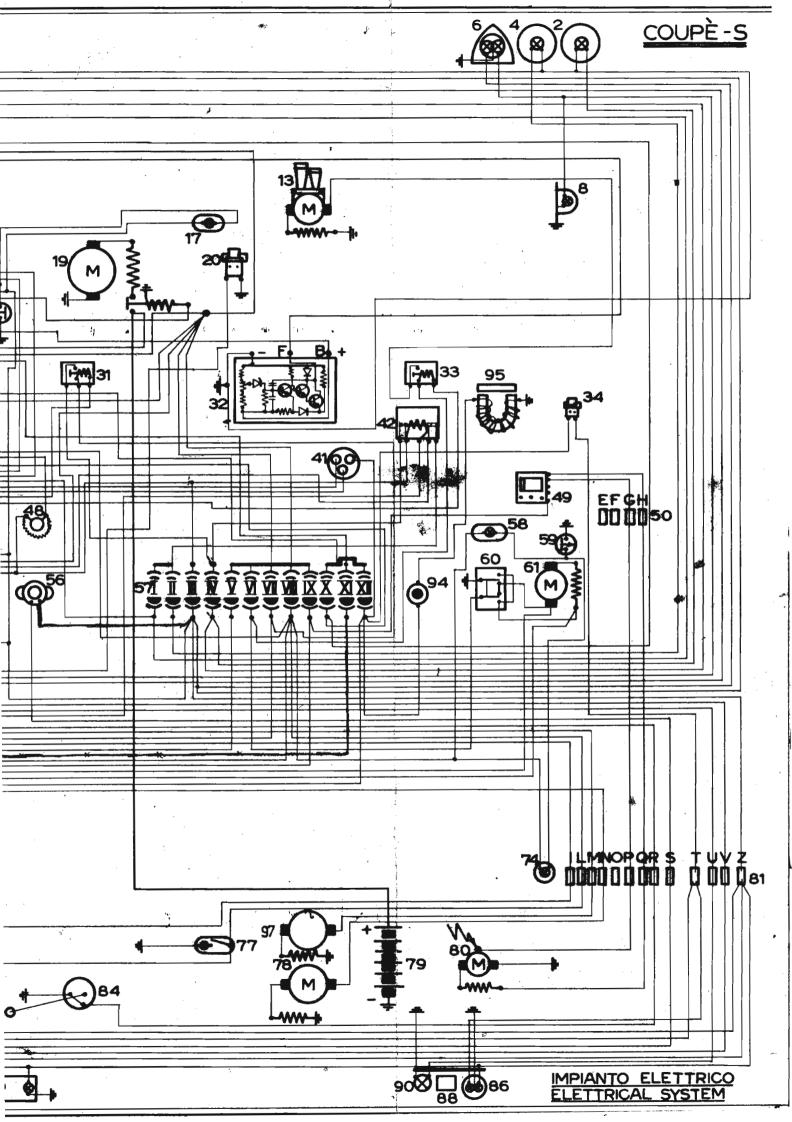
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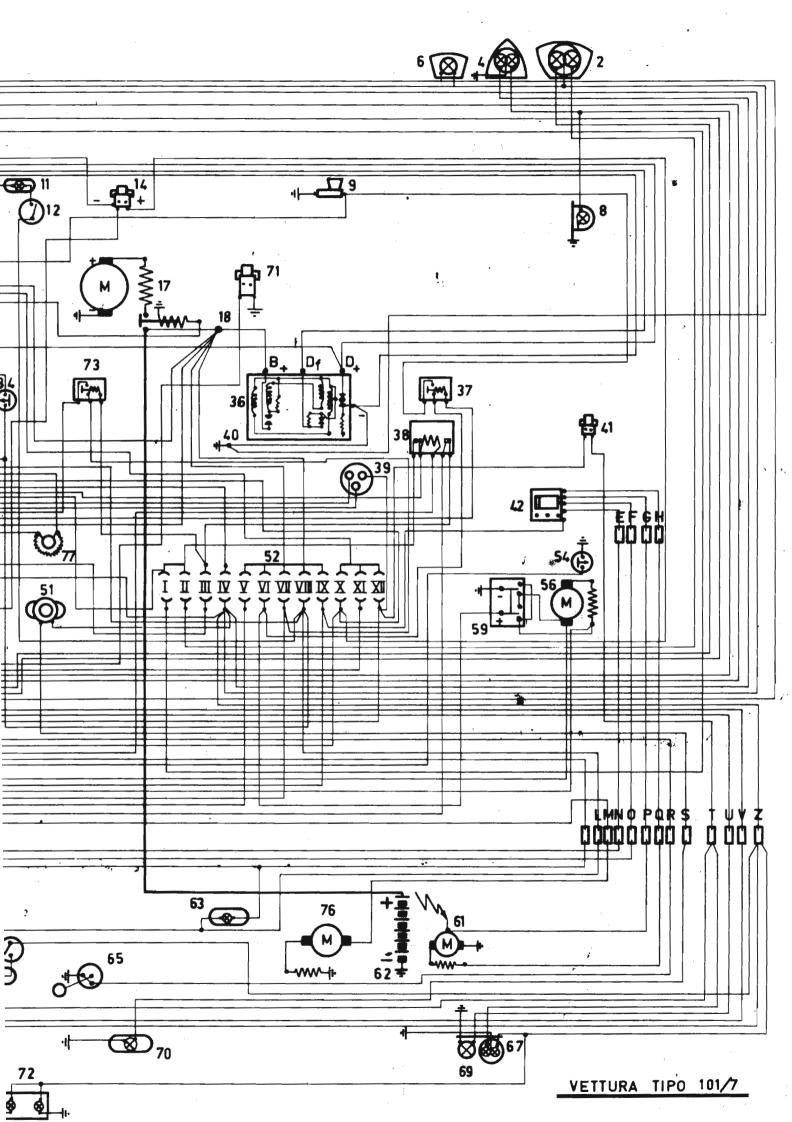
- 50) Radio attachments
- 51) Low and position light switch
- 52) Headlight switch
- 53) Heating ventilators control switch
- 54) Rear defroster control switch
- 55) Thermic switch and red warning light for injection pump
- 56) Transmission reverse gear switch
- 57) Fuses box
- 58) Interior right front light
- 59) right door lights switch
- 60) Right window electric switch
- 61) Right window motor
- 62) Left door light switch
- 63) Injection pump safety switch
- 64) Relais for injection pump
- 65) Steering wheel lights control
- 66) Steering wheel attachment
- 67) Ashtray illumination switch
- 68) Ashtray lights
- 69) Left window motor
- 70) Left window electric switch
- 71) Left and right windows electric switch
- 72) Interior left front light
- 73) Left door red light
- 74) right door red light
- 75) Rear windshield defroster motor
- 76) Interior left light and switch
- 77) Interior right light and switch
- 78) Injection fuel pump motor (number 1)
- 79) Generator
- 80) Radio areal motor
- 81) Rear contact screw (12) attachments
- 82) track illumination light
- 83) Luggages compartment illumination switch
- 84) Floater with reostat for fuel gauge
- 85) Position light lamp and left rear stop
- 86) Position light lamp and right rear stop
- 87) Left rear catadioptre
- 88) Right rear catadioptre
- 89) Left rear flashing lamp
- 90) Right rear flasshing lamp
- 91) Reverse white lamp
- 92) Plate illumination lights
- 93) Spark plugs
- Air conditioner thermostatic control switch 94)
- 95) Electromagnet on blower.
- 96) Arcing contact for elettromagnet fan
- 97) Injection fuel pump motor (number 2)
- Commutator for double pump for fuel injection 98)

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INSTRUCTION MANUAL FOR MASERATI 3500 G.T.

IMPORTANT

This vehicle has an adjustable silencer approved by the local Department of Civil Motoring (Ispettorato Compartimentale della Motorizzazione Civile e trasporti in Concessione). The terms of the omologation are stamped on the silencer.

The emologation was made according to the pressures with the vehicle at stand, the motor running at maximum revalutions and a noise recorder situated at 7 meters distance from the automobile longitudinal axle, in correspondence with the exaust tube end, either on the right and left side, in the open, with no trees in the surroundings, reflecting walls or any slight background noise.

But each vehicle, although being regularly emelogated as far as the silencer is concerned, may exceed the noise prescribed limits when the engine, at high revolutions and under strong acceleration, is forced to obtain the maximum performances.

WE DO NOT GUARANTEE THAT THIS SILENCER WILL CONFORM WITH THE REGULATIOS LAID DOWN BY THE MINISTRY, AND DO NOT GUARANTEE THAT IT WILL REMAIN BELOW THE PRESCRIBED NOISE LIMIT UNDER ALL CONDITIONS OF USE.

IN ORDER YOU WILL BE ABLE TO CONTINUE TO DRIVE AND ANJOY YOUR MASERATI TO THE FULLEST EXTENT; THE FACTORY, OFFICINE ALFIERI MASERATI S.p.A., VIA CIRO MENOTTI 322 MODENA ITALY, WILL BE ONLY TOO GLAD TO FURNISH ANY INFORMATION CONCERNING THE USE AND MAINTENANCE OF THE AUTOMOBILE.