ISTRUZIONI

PER L'USO E LA MANUTENZIONE DELLA VETTURA

OFFICINE ALFIERI MASERATI S. p. A.
41100 MODENA (Italia)
VIALE CIRO MENOTTI 322
TEL. 23.01.01

CAR IDENTIFICATION

EACH CAR IS MARKED WITH ITS OWN IDENTIFICATION NUMBER OF THIS TYPE WHICH IS STAMPED ON THE LEFT SIDE OF THE CROSS MEMBER, BETWEEN TWO STARS AS MANUFACTURER'S MARK.

ENGINE 4200 cc. AM 116..... ENGINE 4700 cc. AM 116/47..

THE ENGINE'S SERIAL NUMBER IS STAMPED ON THE CLUTCH BELL HOUSING, NEAR THE STARTER MOTOR. THESE IDENTIFICATION NUMBERS ARE ALSO STAMPED ON THE NAME PLATE, WHICH IS READILY VISIBLE IN THE BONNET, AND ARE THE ONLY NUMBERS LEGALLY RECOGNISED WHEN THE CAR IS SOLD.

MAIN SPECIFICATIONS AND DATA

GRAN TURISMO - 4 SEATS
BODY: Coupè

OVERALL LENGHT	INCHES	186,6
OVERALL WIDTH	INCHES	69,2
OVERALL HEIGHT	INCHES	48

ENGINE: 8 CYLINDERS IN V FORMATION - 90°	4200 cc.	4700 cc.
BORE	MM. 88	MM. 94
STROKE	MM. 85	MM. 85
CUBIC CAPACITY	cc. 4136	cc. 4719

HEMISPHERICAL COMBUSTION CHAMBERS - 4 OVER-HEAD CHAIN DRIVEN CAMSHAFTS - DIRECT VALVE CONTROL - 4 TWIN CHOKE CARBURETTORS - IGNITION SYSTEM WITH DISTRIBUTOR - COOLING SYSTEM WITH RADIATOR AND CENTRIFUGAL WATER PUMP - FORCED LUBRICATION - TOAL DRAINING - OIL COOLING THROUGH HEAT EXCHANGER.

	4200 cc.	4700 cc.
B H P AT 5500 R.P.M.	260	290

COMPRESSION RATIO ..... 8,5 : 1
CLUTCH: SINGLE DRY PLATE WITH FLEXIBLE COUPLING AND HYDRAULIC CONTROL.
GEAR BOX: FIVE SPEED AND REVERSE SYNCHRONIZED.
CHASSIS: INTEGRAL BODY CHASSIS CONSTRUCTION.

WHEEL BASE	INCHES	102,3
GROUND LEVEL TRACK (FRONT	INCHES	58,2
GROUND LEVEL TRACK (REAR	INCHES	56,5

SUSPENSION: FRONT: INDEPENDENT, COIL SPRING, STABILIZING TORSION BAR AND TELESCOPIC DAMPERS - REAR: STABILIZING TORSION BAR, TELESCOPIC DAMPERS AND PLATE SPRINGS.

BRAKES: VENTILATED DISC WITH SERVO UNIT IN DUAL CIRCUIT.

FUEL TANKS 2 SEPARATE

TOTAL CAPACITY . . . . . IMP. GALLONS 22
NORMAL CONSUMPTION . . . . . 16,6 M.P.G.

CONDITIONED AIR AND HEATER: BIG EFFICIENTY PLANT

LARGE LUGGAGE COMPARTMENT . . . . . CUBIC FEET 17,7

WHEEL DIAL ALLUMINIUM . . . . . 17½ x 14"

TIRES . . . . . 205 x 14"

	4200 cc.	4700 cc.
MAXIMUM SPEED . . . . . M.P.H.	156	166

OPTIONAL: AUTOMATIC TRASMISSION, POWER STEERING, RADIO, ECC.

THE ABOVE ARE INDICATIVE INFORMATION.

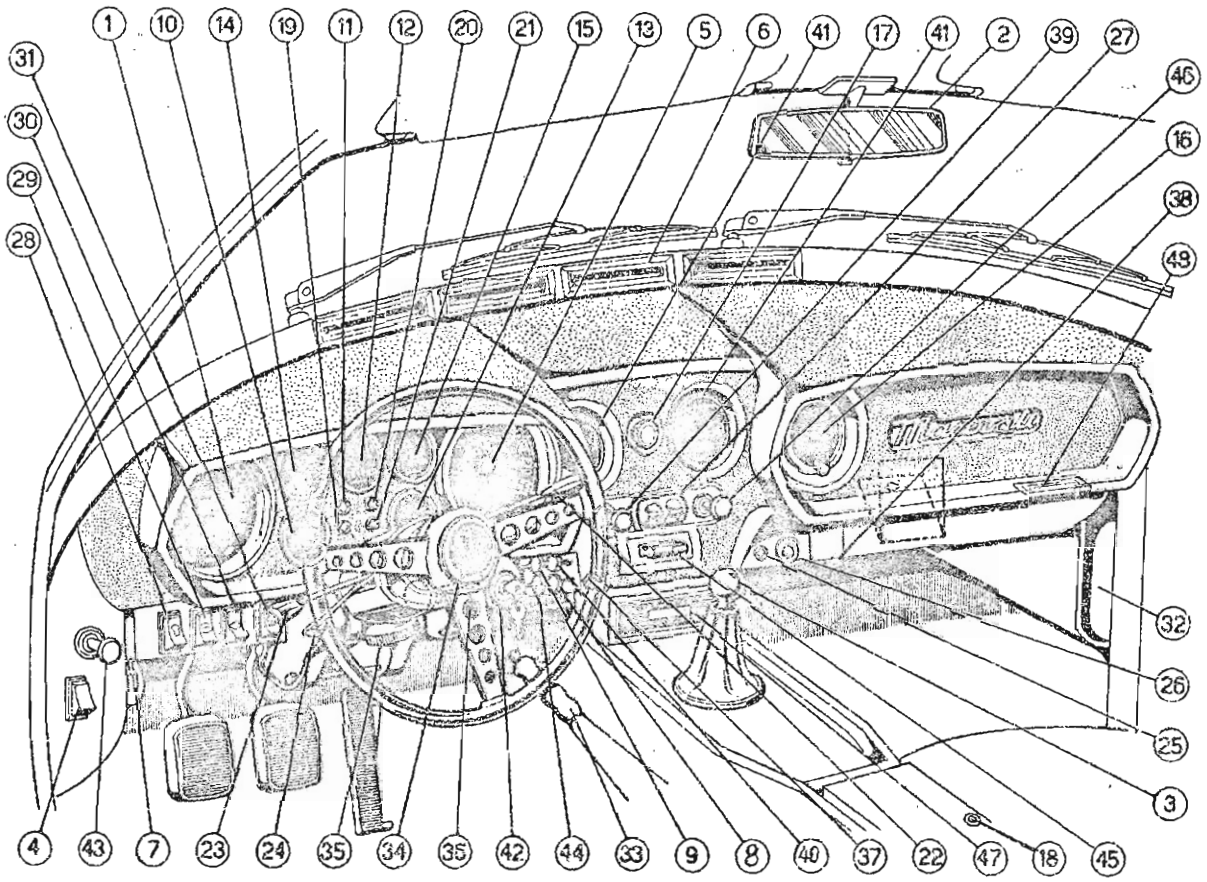


Fig. 1

DASHBOARD

INSTRUMENTS AND CONTROLS ON DASHBOARD

1- Magnetically operated electric tachometer with warning lights
— Headlamp main beam warning light-blue (left side location)
— Direction indicator warning light-red (central location)
— Side lamp warning light-green (right side location)

2- Two-position rear view mirror.

3- Gear lever. Five syncromesh forward gears plus reverse gear.

4- POSITION AND MAIN LIGHT LIFT SWITCH.

5- Speedometer/Kilometer counter with warning lights
-- Heating/ventilated blower warning light-amber (left side location)
-- Choke control on warning light-green (central location)
-- Alternator charge warning light-red (right side location)
It normally lights up below 1000 R.P.M. and dies out at higher engine speeds. It remains on when the generator is not working properly.

6- Windscreen defroster adjustable outlets.

7- Bonnet release lever.

8- Inside ventilation control lever (open when to the right end)

9- Choke control knob. To be operated only when starting the engine in cold weather. Release the knob progressively until the engine is completely warmed up. It is open when on the left side and close at the yellow spot.

10- Fuel level indicator.

11- Hand-brake warming light-red.

12- Oil pressure gauge, in Kg./cm^2 electrically connected to the revealing bulb. Minimum pressure permitted with warm engine not below 1,52KG/cm^2.

13- Ammeter: indicates the current flow to and from the battery; an alternator voltage regulator provides for proper battery charge establishing 12 volts tension. In normal running conditions and with a well charged battery, the ammeter should always indicate a slight charge with whatever operating instrument or control.

14- Water temperature indicator: should never exceed 150° C.

15- Electrically operated oil temperature indicator: should never exceed 110/120° C.

16- Electric clock. Connected to the battery, it is provided with an external manual regulator knob for hand adjustment. Regulation is obtained by pulling and rotating the knob.

17- Thermostat for air conditioner; operates the engagement and disengagement of the compressor acting on the electromagnetic coupling engine/compressor. It controls and stabilizes automatically the internal car temperature, as required, in the region of 14° C.

18- Glove compartment lock.

19- Left side fuel tank reserve warning light-red. It lights up when the tank is containing less than 9 liters of fuel.

20- Rear window defroster warning light-amber.

21- Right side fuel tank reserve warning ligh-red. It lights up when the tank is containing less than 9 liters of fuel.

22- Windscreen washer pump switch - Windscreen wiper switch - Ceiling lights switch (see Fig. 3)

23- Main light switch - (see fig. 3)

24- Change-over lever for outer lights and direction indicators (see fig. 3)

25- Raised headlamp warning light-blue (for Germany)

26- Direction light emergency switch (German U.S. specifications)

27- Window glass winder dual switch. A thermoeletric device cuts off the current to the motgr both when the switch is over-pressed and the glass travel is over.

28- Two-way fuel feed pump switch. When pushed upwards and downwards the right and left tank pumps are respectively operated.

29- Two speed control switch: heating/ventilation blower/Air conditioning. When switch is pressed upwards the blower starts working at 1st. speed (1400 R.P.M.). When switch is pressed downwards the blower starts working at 2nd speed (2200 RPM). This blower supplies a high flow of air which can be either warm or cold according to wether the heating system or the air conditioning is operated. Suitable flaps deflectors deviate the air on windscreen on driver's and passenger's side or on feet of these.

30- Rear window defroster switch: makes current pass through a resistance printed on the rear window thus demisting it.

31- Instrument lighting switch.

32- Parcel box.

33- Hand brake lever. Jamming the rear brakes. Use brake only when parking, moving on a slope or when stopping in traffic. To operate the lever press the button on its end.

34- Air horn push button.

35- Steering wheel adjustment knob (backwards)
Rotate the knob to obtain suitable driving position. Such operation performed, tighten the knob.

36- Steering wheel adjustment lever (inclination). Push lever backwards to obtain suitable inclination then set the lever on its original position.

37- Kilometer counter zero-setting knob. Press the knob forward and rotate clockwise to obtain zero-setting.

38- Driver's and passenger's side air outlets adjustable by means of suitable flap deflectors located on the outlets.

39- Cigarette lighter. An electric contact is obtained by exercing a pressure on the lighter thus making its bottom white-hot in a few seconds. Pull out the knob as soon as a special device interrupts contact lifting the knob up.

40- Outside air ventilation lever (open when to the right side).

41- Inside car air outlets: press its surface to open the flap.

42- Ignition key and steering wheel locking device four positions:
- "stop" position -locking device is engaged. It acts directly on the steering shaft.
- Garage position -All electric circuits closed
- Run position -The engine is started.

43- Intermittent windscreen wiper knob. Rotate knob clockwise to obtain wipers work at intervals varying from 2" to 25".

44- Heating system control lever. Delivers engine hot water into the radiator located underneath the dashboard. The lever is open when positioned closed to red spot.
Warning: a second tap connected to the hotwater main line is located on radiator exhit. Close such tap to prevent water from returning into the radiator during hot weather.

45- Ash-tray.

46- Removable lamp for dashboard lighting.

47- Radio-fitting free space (radio mounted on demand).

48- Driver's and passenger's side dashboard plaffoniere.

MASERATI
AUTOMOBILI
MODENA

MASERATI "INDY" AM 116
AM 116/47

GEAR BOX ZF S-5-20 ENGINE 4200cc. - GEAR BOX ZF S-5-325 ENGINE 4700cc.

FIVE FORWARD SYNCROMES GEAR PLUS REVERSE GEAR OF THE CONSTANT MESH TYPE
THE GEAR SHIFT LEVER IS FITTED DIRECTLY ON THE CENTER OF THE GEAR BOX.

GEAR RATIOS - ZF S-5-20

1ST GEAR 1:3,00
2ND GEAR 1:1,705
3RD GEAR 1:1,24
4TH GEAR 1:1
5TH GEAR(OVERDRIVE) - 1:0,85
R. GEAR 1:3,17

GEAR RATIOS - ZF S-5-325/27

1ST GEAR 1:2,97
2ND GEAR 1:1,92
3RD GEAR 1:1,34
4TH GEAR 1:1
5TH GEAR(OVERDRIVE) - 1:0,9
R. GEAR 1:3,31

CAR PERFORMANCES AM 116

FINAL DRIVE RATIO 13/46=0,2825=3,54
TYRES 205 VRx14". ROLL RADIUS=2,04MT.

ROAD SPEED DATA KPH

ENGINE R.P.M.	1ST. GEAR	2ND. GEAR	3RD. GEAR	4TH. GEAR	5TH. GEAR
ENGINE	RATIO=3,00	RATIO=1,705	RATIO=1,24	RATIO=1	RATIO=0,85
1000	11,5	20	27,9	34,6	40,8
1500	17	24	42	52	61
2000	23	41	56	69	82
2500	29	51	70	87	102
3000	35	62	84	104	123
3500	40	72	98	121	143
4000	46	82	112	139	163
4500	52	92	126	156	184
5000	58	102	140	173	204
5500	63	113	153	190	225
6000	69	123	168	208	245

CAR PERFORMANCES AM 116/47

FINAL DRIVE RATIO 13/43=0,302=3,31
TYRES 205 VRx14". ROLL RADIUS=2,04MT.

ROAD SPEED DATA KPH

ENGINE R.P.M.	1ST. GEAR	2ND. GEAR	3RD. GEAR	4TH. GEAR	5TH. GEAR
ENGINE	RATIO=2,97	RATIO=1,92	RATIO=1,34	RATIO=1	RATIO=0,9
1000	12,5	19,4	27,8	37,3	41,4
1500	18,7	29,10	41,7	55,95	62,1
2000	25	38,8	55,6	74,6	82,8
2500	31,2	48,5	69,5	93,2	103,5
3000	37,5	58,2	83,4	111,9	124,2
3500	43,7	67,9	97,3	130,5	145
4000	50,0	77,6	111,2	148,2	165,6
4500	56,2	83,3	125,1	167,8	186,3
5000	62,5	97	139	185,5	207,0
5500	68,7	106,7	152,9	205,1	227,70
6000	75	116,4	164,4	223,8	248,4

CONTROLS ON STEERING WHEEL

PUSHING SWITCH 4 UPWARD (SEE DASBOARD PAGE 2) CURRENT IS INSERTED FOR THE HEAD LAMPS RETRACTABLE DOORS AND EXTERIOR LIGHTS CONTROLS.

"A" LEVER

- POSITION 1 – PARKING LIGHTS
- POSITION 2 – LOW BEAMS AND FLASHING (FLASHING IS OBTAINED MOVING THE LEVER TOWARDS STEERING COLUMN.
- POSITION 3 – HEAD LIGHTS

N.B. PRESS LEVER TO OPERATE HORN

"B" LEVER

- POSITION 0 – OFF
- POSITION 1 – DIRECTION INDICATOR RIGT ON.
- POSITION 2 – DIRECTION INDICATOR LEFT ON.

"C" LEVER

- POSITION 0 – OFF
- POSITION 1 – LOW-SPEED WINDSREEN WIPER ON. TO BE USED IN NORMAL WORKING CONDITIONS AND WHEN SNOWING.
- POSITION 2 – HIGHT-SPEED WINDSCREEN WIPER ON. TO BE USED WITH HARD RAIN WHEN DRIVING FAST.
- POSITION 3 – INTERIOR LIGHTS. LIGHTEN UP BY ROTATING THE LEVER COUNTERCLOCKWAISE
- POSITION 4 – WINDSCREEN WASHER AND WIPER: PRESS THE LEVER TOWARDS STEERING COLUMN TO OBTAIN SIMULTANEOUSLY WATER SPRAYING ON GLASS AND WIPING EFFECT.

CONTROLS ON STEERING WHEEL

(Fig. 3)

HEADLAMP RAISING EMERGENCY CONTROL

If for some reason the automatic headlamp raising device does not work properly, use the emergency handle located on the tunnel free space. In such cases disconnect first of all the "A" emergency switch situated inside the bonnet on the chassis right end, close to the radiator, by pressing the knob downwards. Remove the "B" trident emblem located on the car nose lifting it up by means of a screwdriver. Fit the handle on the cog-hole and rotate clockwise or counter-clockwise as to necessity.

Once reparation performed remember that the emergency control has to be set in normal on position otherwise the headlamp raising device will not work due to lack of current.

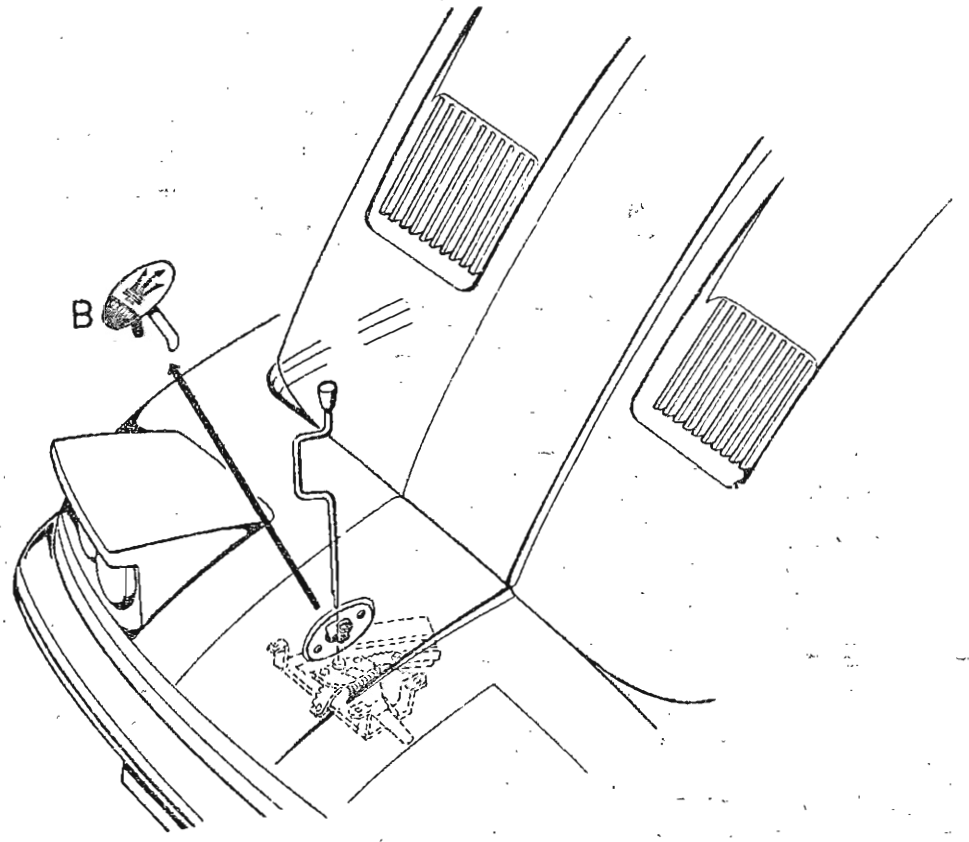


Fig. 4

WINDOW GLASS EMERGENCY CONTROL

IF POWER WINDOWS DO NOT WORK USE THE EMERGENCY HANDLE LOCATED ON THE TUNNELL FREE SPACE. FIT THE HANDLE IN THE HOLE (PROTECTED WITH A METAL PLATE) SITUATED ON THE DOOR AND PROCEED WITH WINDOW RAISING.

AIR CONDITIONING SYSTEM
(SEE FIG. 1 DASHBOARD)

AIR CONDITIONING SYSTEM
ROTATE THE SWITCH (17) WHICH HAS TWOFOLD FUNCTION I.E. ENGAGES COMPRESSOR ON FIRST POSITION AND REGULATES TEMPERATURE INSIDE THE CAR IN ACCORDANCE WITH ROTATION DONE.
INSERT THE BLOWER USING THE TWO SPEED CONTROL SWITCH (29) OPEN THE FLAP UNDERNEATH THE DASHBOARD OPERATING THE VENTILATION CONTROL LEVER (8) TO ALLOW AIR CIRCULATION AND STOP OUTSIDE AIR TO COME IN USING THE VENTILATION LEVER (40). DEVIATE THE AIR WHERE NEEDED USING FLAP DEFLECTORS.(6-38-41-)

N.B. TAKE CARE THAT BOTH WATER taps, THE ONE INSIDE THE BONNET AND THE OTHER OPERATED BY LEVER 44, COMPLETELY CLOSED.

HEATING SYSTEM
OPEN HOT WATER TAP MOVING THE LEVER (44) TOWARDS THE RED SPOT THEN OPEN THE TAP UNDERNEATH THE DASHBOARD USING LEVER (8) AND MOVING LEVER 40 TO THE LEFT. THE WATER TAP INSIDE THE BONNET HAS TO BE FULLY OPEN.

VENTILATION SYSTEM
IF OUTER AIR IS NEEDED, MOVE CONTROL LEVER (40) TOWARDS THE WHITE SPOT, CLOSE THE TAP UNDERNEATH THE DASHBOARD USING LEVER (8).
INSERT THE BLOWER USING TWO-SPEED SWITCH (29). WHEN THE CAR IS RUNNING CLOSE THE BLOWER.

DEMISTING SYSTEM
IN COLD WEATHER IN ORDER TO DEHUMIDIFY THE AIR INSIDE THE CAR AND TO HAVE THE WINDOWS COSTANTLY DEMISTED, IT IS ADVISABLE TO OPERATE THE COOLING SYSTEM PARTIALLY AND THE HEATING SYSTEM FULLY WITH CONTROL LEVER (40) FULLY MOVED TOWARDS THE RIGHT. IN ORDER TO OBTAIN GOOD AND QUICK RESULTS ALL THE WINDOWS SHOULD BE KEPT FULLY CLOSED ESPECIALLY WHEN COOLING SYSTEM IS OPERATED.

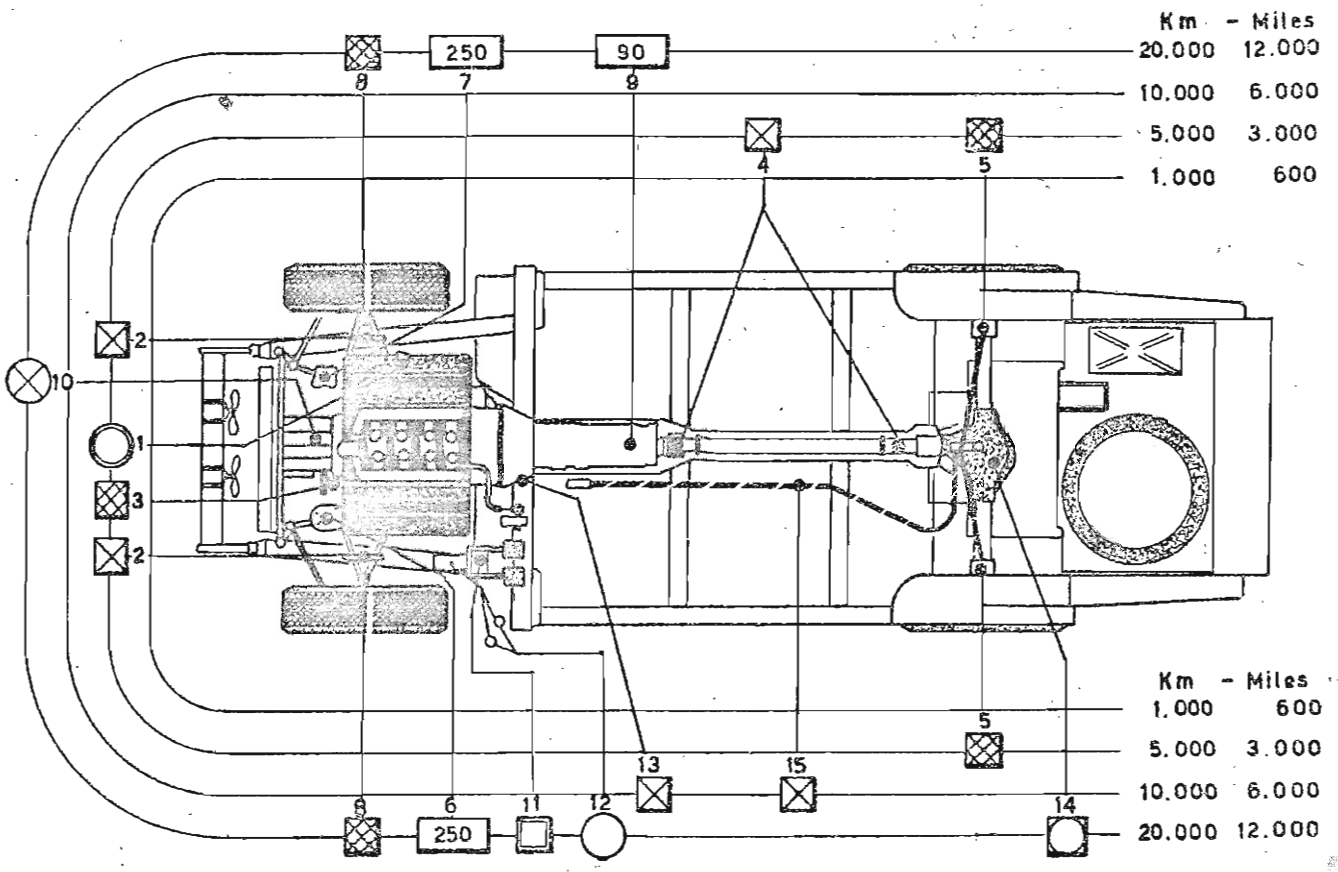
ANTEFREEZE
IN AREAS WHERE TEMPERATURE APPROACHES FREEZING POINT AN ANTIFREEZE SOLUTION MUST BE USED TO AVOID INCONVENIENCE.
WE SUGGEST THE AGIP F.1. ANTIFREEZE SOLUTION
HERE ARE SUITABLE QUANTITIES TO BE USED:
- 4 LITERS FREEZING POINT 12° C. BELOW ZERO.
- 5 LITERS FREEZING POINT 20° C. BELOW ZERO.

In case of different temperatures or in case of use of different makes of antifreeze please note that the water contained in the radiator and heating system is 14 liters. If the car is even for a short time in areas with temperature approaching the freezing point without any antifreeze solution in the radiator it will be necessary to evacuate the water through the radiator taps.

N.B.
As the radiator underneath the dashboard is very close to the air conditioning evaporator unit, we recommend the use of antifreeze for at least 10°C. below freezing point, thus avoiding tubes breakeage due to freeze.

- L U B R I F I C A T I O N D I A G R A M -

Fig. 5



1) - ENGINE OIL TANK
2) - FRONT SUSPENSION
3) - WATER PUMP
4) - PROPELLERSHAFT UNIVERSAL JOINTS
5) - REAR AXLE DRIVE SHAFT
6) - STEERING BOX
7) - STEERING IDLER BOX
8) - FRONT WHEELS HUBS
9) - GEAR BOX
10) - AIR CONDITIONING COMPRESSOR
11) - CLUTCH FLUID RESERVOIR
12) - BRAKE FLUID RESERVOIR
13) - CLUTCH WITHDRAWAL SHAFT
14) - DIFFERENTIAL UNIT
15) - HAND BRAKE

RECOMMENDED FUELS AND LUBRIFICANTS

Average fuel consumption 62 miles per 4-5 imp. Gallon (62 miles per 5-6 U.S. Gallon).
Fuel consumption may vary according speed, road condition and frequency of slowing down and acceleration.
It is advisable not to exceed an engine speed of 6000 R.P.M.
Driving autonomy 300 miles.

	CAPACITY IN LTS.	SPECIFICATIONS
Fuel tank	100	Supercortemaggiore N.O. 98/100 R.
Engine radiator	15	Water
		Antifreeze solution Agip F.1.
	4	Freezing point - 12° C.
	5	Freezing point - 20° C.
	7	Freezing point - 40° C.
Engine sump	9	AGIP SINT 2000 (SAE 20 W/50)
Gearbox S 520	1,1	AGIP F.1 ROTRA HYPOID SAE 90
Differential box	1,4	AGIP F.1 ROTRA MP SAE 90
Slip differential	1,4	AGIP F.1 ROTRA MP/S SAE 90
Steering box	0,2	AGIP F.1 ROTRA SAE 250
Brake reservoirs	2 ÷ 2,5	1) CASTROL WAKEFIELD GIRLING BRAKE FLUID AMBER (EXTRA HEAVY DUTY H 204/57 2) AGIP F.1 BRAKE FLUID
Clutch cylinder	0,2	AGIP F.1 BRAKE FLUID SUPER HD
Automatic transmission	8	AGIP F.1 ROTRA ATF
Hydraulic servosteering	2	AGIP F.1 ROTRA ATF
Pivots, pins, joints		AGIP F.1 GREASE 15
Wheel hubs, bearing, bushes		AGIP F.1 GREASE 33 F.D
Air conditioning compressor unit	0,355	AGIP F.1 TER 34

For countries where above products are not available see enclosed sheet.

1) Low beam, left
2) Head beam, left
3) Flashing and parking light, left
4) Side flashing light, left
5) Low beam, right
6) Head beam, right
7) Flashing and parking light, right
8) Side flashing light, right
9) Lights doors operating motor
10) Transistorised electronic ignition system
11) Radiator thermic plugs for engine fan control
12) Motor fan, left
13) Motor fan, right
14) Air horns
15) Air horns compressor
16) Main relay for operating the engine fans with cooler.
17) Check current relay for engine fan operating
18) Current generator - Alternator
19) Water temperature sending unit
20) Electromagnetic clutch for cooling control
21) Distributor
22) Ignition coil
23) Windshild wiper motor
24) Voltage regulator for alternator
25) Engine bonnet lamp, left
26) Stop light hydraulic switch
27) Oil temperature sending unit
28) Warning light for oil pressure sending unit
29) Engine oil pressure sending unit
30) Engine block
31) Starting motor
32) Windshild washer motor
33) Ventilation and heating fan motor
34) Engine bonnet lamp,
35) Eartn connection, left
36) Eartn connection, right
37) R.P.M. gauge
38) Ammeter
39) Fuel level gauge
40) Oil pressure gauge
41) Water temperature gauge
42) Oil temperature gauge
43) Speedometer and tachometer
44) Left tank warning light
45) Hand brake warning light
46) Right tank warning light
47) Rear defroster warning light (yellow)

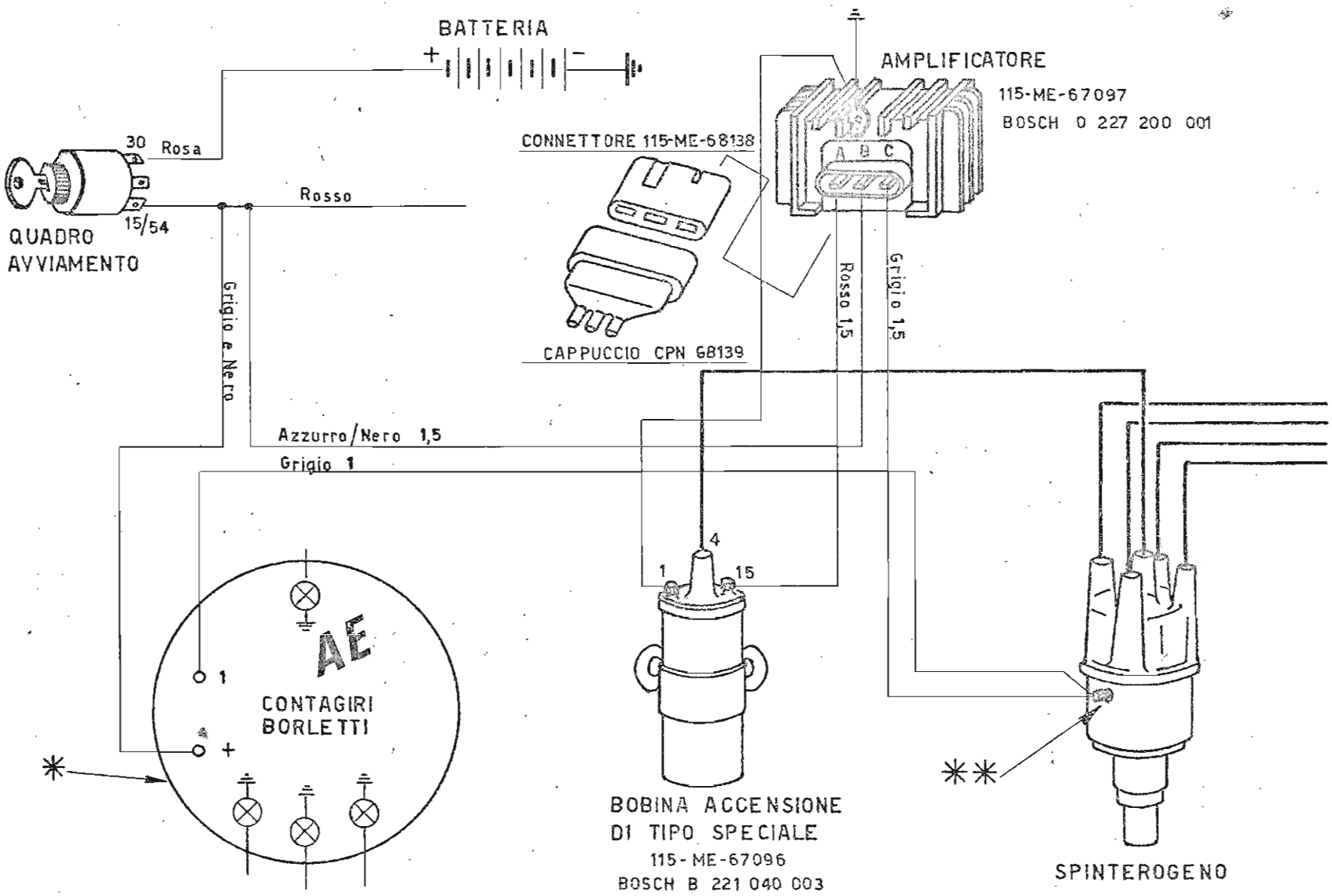
48) Air horn control contact
49) Engine starter
50) Light direction and indicator assembly and windshild washer control
51) Starter panel
52) Twin switch for power window control
53) Dashboard lighter
54) Extractable dashboard lamp
55) Cooler control thermostat
56) Fuse housing for light doors circuit control
57) Fuse box (n.9 fuses)
58) Intermittence for side flashing lights
59) Electric watch
60) Air horn control relay
61) Low beam control relay
62) Windshild wiper control temporizer
63) Lights doors operating switch
64) Pump control switch and level gauge
65) Heating fan switch
66) Rear defroster switch
67) Dashboard light switch
68) Flashing light unidirection relay
69) Reverse light switch
70) Hand brake switch
71) Dashboard lamp, left
72) Eartn switch, left
73) Power window motor, left
74) Warning light on left door
75) Dashboard lamp, right
76) Right door eartn switch
77) Power window motor, right door
78) Warning light on right door
79) Rear wiring connection terminal
80) Driver compartment lamp, left
81) Left tank fuel level gauge
82) Left tank fuel pumps
83) Rear defroster resistance
84) Right tank fuel pump
85) Battery
86) Driver compartment lamp, right
87) Right tank furl level gauge
88) Rear lamp, left
89) Plate lights
90) Rear lamp, right

COLLEGAMENTO ACCENSIONE ELETTRONICA CAPACITATIVA Tp. BOSCH ZS17/1K23

MASERATI
AUTOMOBILI
MODENA

✳ STRUMENTO CON APPOSITA TARATURA (MARCATO AE)

✳✳ TOGLIERE IL CONDENSATORE ANTISCINTILLA (ANCHE SOLO STACCANDO IL CAVO INTERNO)



VETTURA TIPO 116