

21st Edition

**FIAT**  
**500**  
**FIAT**  
**500L**

*FIAT*

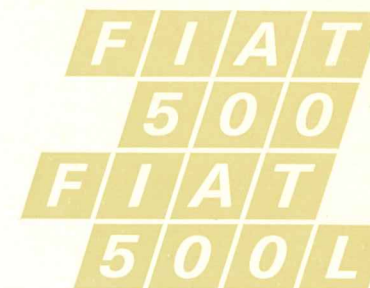


**Instruction Book**

## When you want to know

- How to change a wheel . . . . . see page 16
- The correct tire pressures . . . . . » 53
- How to change a lamp bulb . . . . . » 33
- How to replace a blown fuse . . . . . » 36
- How to aim the headlamps . . . . . » 34
- The location of safety belt anchorages . . . . . » 7
- How to use the heating and ventilation system . . . . . » 13
- The refill capacities . . . . . » 53
- How and when to lubricate . . . . . » 19
- How to adjust carburetor . . . . . » 22

and, for any other question, consult the Contents list on page 51.



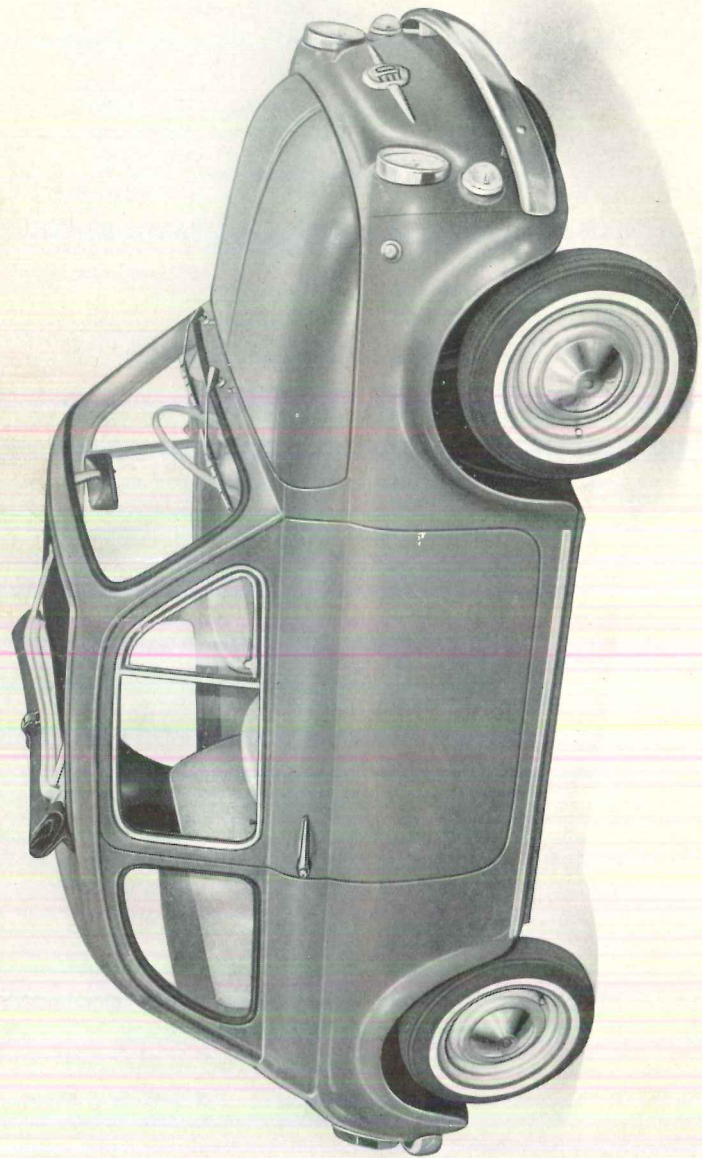
*This booklet illustrates and describes the operation and maintenance rules which will consistently ensure the safe and satisfactory performance of your car, if followed properly. In the accompanying booklet « Safe Motoring Hints », also supplied with every car, you will find those suggestions on driving know-how which it always pays to remember. Both publications aim at helping you cover safely thousands of troublefree miles.*

- **Operation**
- **Maintenance**
- **Specification**

**Appendix:**

- **500 L De Luxe Version**



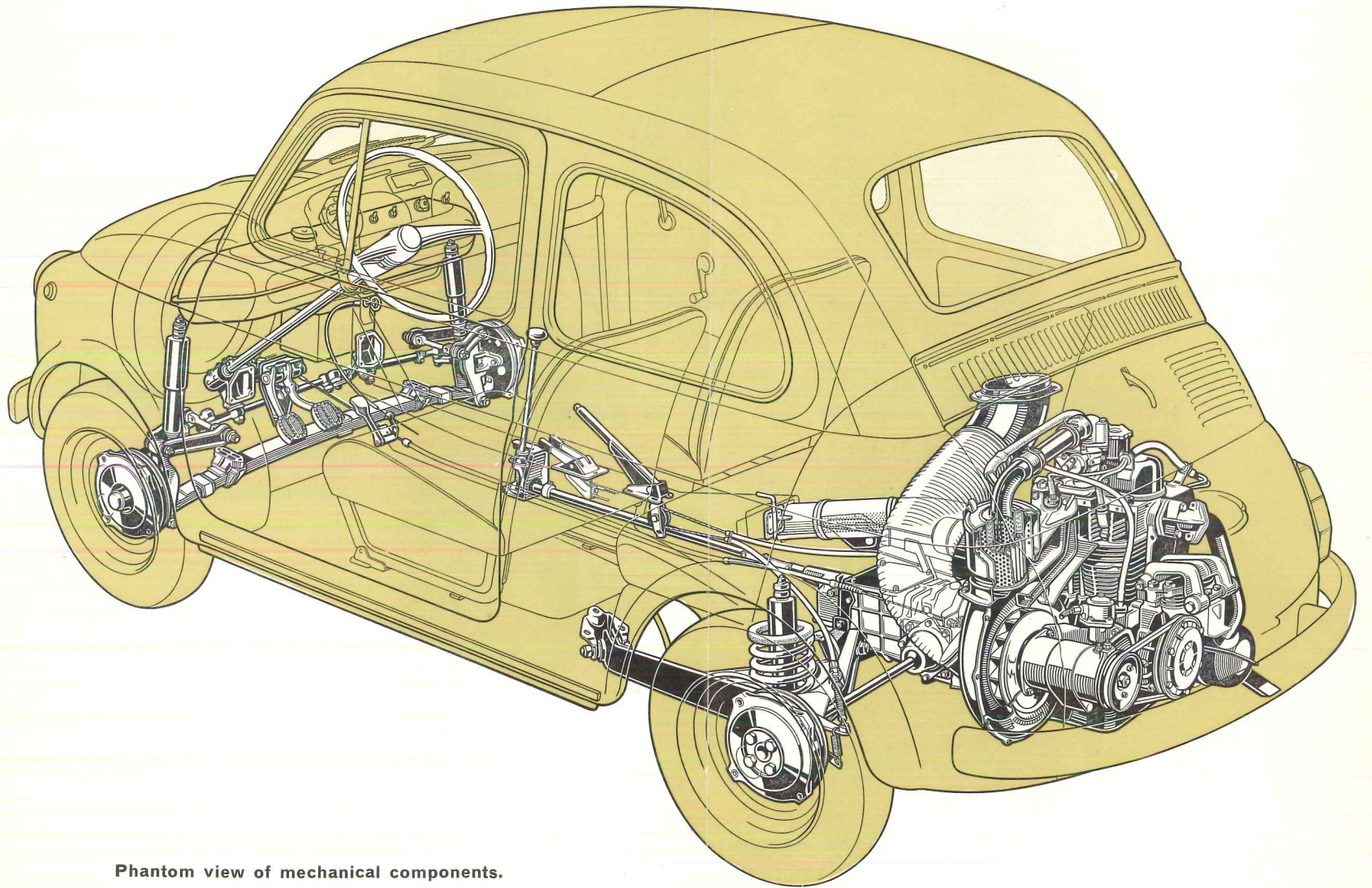


“500” Sun Roof Model.

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ient



"500" Sun Roof Model.



Phantom view of mechanical components.

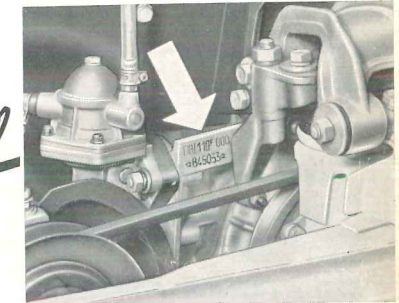
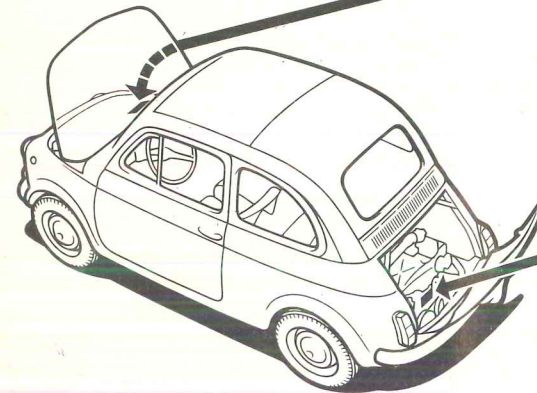
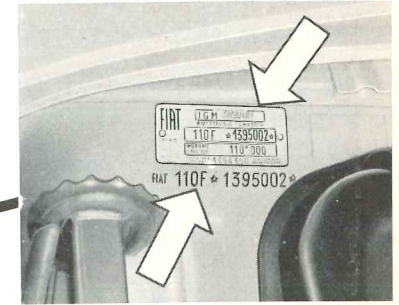


# I D E N T I F I C A T I O N   D A T A

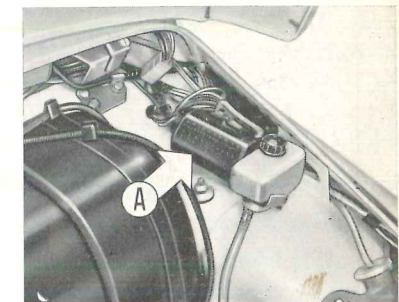
**Identification plate:** Qualification number, chassis type and number, engine type, number for spares.

**Chassis type (110 F) and identification number.**

(On RHD cars the identification Plate and chassis Number are on the left side).



**Engine type (110 F.000) and identification number.**



**A - Fusebox,** in front compartment, next to fuel tank (see page 36).

## KEYS

Each vehicle is provided with two keys in duplicate: one for ignition lock switch and one for the doors. Quoting the code number punched on key bow will be sufficient to obtain a spare key from FIAT's Sales Organization.

## SERVICE

### OWNER SERVICE CERTIFICATE

All the service operations under the FIAT warranty are listed in the **Owner Service Certificate** issued with every new car.

The Certificate includes **two Service Coupons** covering the **Free** checks, adjustments and lubrication (cost of lubricants excepted) to be performed **at FIAT Service Stations** on completion of the **first 1000-1300 miles** and **2500-3500 miles** of driving.

It is your own interest to report for Free Service at the specified mileage intervals to obtain best performance and preserve the efficiency of your car.

### SPARE PARTS

Make it a point to use exclusively genuine FIAT parts. It is the best guarantee for top performance and satisfactory operation of all components.

When ordering, please quote (see page 3):

- **Car model.**
- **Chassis type and number.**
- **Engine type and number.**
- **Number for Spares.**
- **Part number** of spare(s) ordered (see the Spare Parts Catalog).

### SERVICE

Not all the specified maintenance operations can be carried out easily by the Owner who usually does not have proper equipment at his disposal. Therefore, the car should be taken to one of the many **FIAT Service Stations** established in Italy and abroad for best assistance.

At these authorized FIAT Stations, any overhaul and repair work will be carried out skillfully, thanks to specially designed equipment and experienced personnel.

**FIAT's Organization** is at your disposal. Do not hesitate to write for any explanation or suggestion that will ensure top car performance and best efficiency.

WHEN YOUR CAR NEEDS SERVICE LOOK FOR THIS SIGN



## BREAK-IN RECOMMENDATIONS

Current progress in design and manufacturing technology is so advanced that you may drive your new car without the need of observing stringent rules during the first period of operation.

However, a few simple rules should be followed for the first 1000 miles:

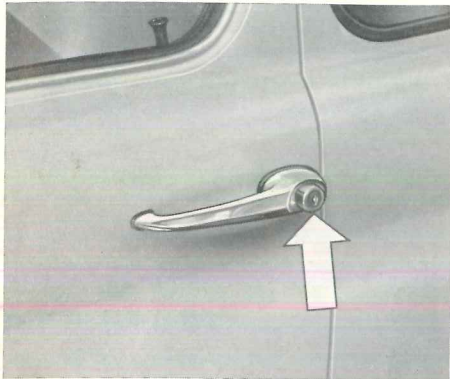
- Avoid brief full-throttle accelerations during engine warm-up after starting (a good habit even after break-in).
- Do not press in fully the accelerator pedal and exercise the necessary care when operating in the lower gears to avoid high engine speeds, that is, never reach the maximum speed limits indicated for each gear by colored marks on speedometer dial.
- Change your road speed occasionally, especially on long trips. Hence, avoid long drives at constant speed, be it high or low.
- Downshift whenever necessary to cope with driving conditions on route: you will avoid engine laboring at excessively low rpm.
- Avoid, if possible, severe stops at sustained speeds during the first few hundred miles: brakes will «set» properly and improve their life and effectiveness.
- Do not change the oil contained in your new engine before having travelled the first 1000-1300 miles - Operation covered by Coupon **A** of the Owner Service Certificate.

Remember that the satisfactory operation and long life of engine, and of mechanical units as well, are dependent to a great extent on the moderation with which the car is used during the first few thousand miles.



# OPERATION

## DOORS AND SEATS



To lock or unlock, insert the key, rotate one quarter turn and then back to the insertion position for removal.

To open doors from inside, move lever **A** as indicated by the arrow.

Locking of doors by knob **B** can be obtained **only if the door is already shut**: to lock, press in the knob.

**Never depress knob B when the door is open as not only will the door remain unlocked but the lock itself might suffer damages.**

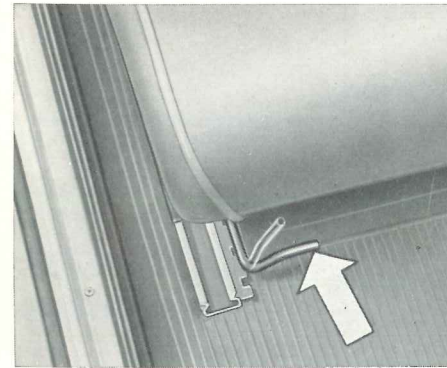
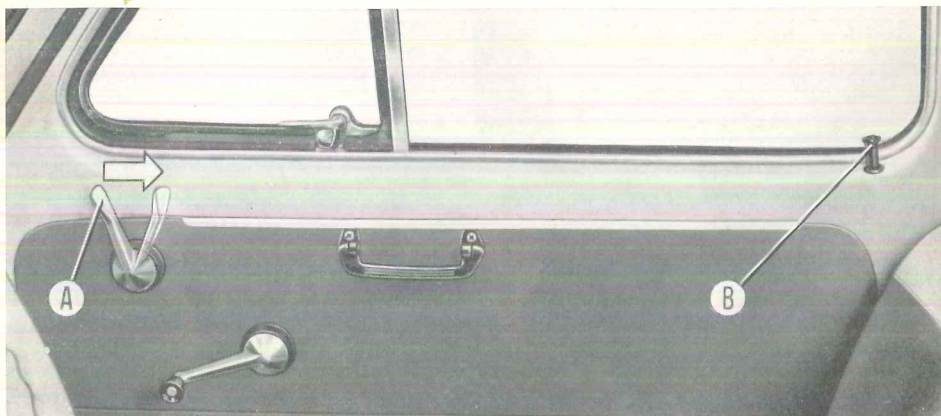
From outside, doors can be locked **only with the key**. This prevents forgetting the keys in the locked car.

*Lubrication of lock cylinders is not recommended. At most, blow some graphite into the cylinder slot.*

When the driver's side door is opened, the courtesy light in rear view mirror is automatically turned on.

Door outer handles are of the button-release type.

**Both doors are provided with key-controlled lock so that stepping out and locking the car on the curb side is also possible.**



The position of front seats may be adjusted after moving the control lever rightward.

Removable rear seat cushion and foldable back for luggage accommodation.

**Optional extra front seats** - with squabs reclinable and adjustable by lifting up a bar lever under the seat. When lever is released, the squab locks in one of the 4 positions possible. Beyond the 4th position, the squab drops freely and may be rested on rear seat cushion.

For access to rear seat tilt front seats forward.



## SAFETY BELT ANCHORAGES

This car is provided with the necessary arrangements for the application of safety belts for the front seat occupants.

For the anchoring of diagonal type belts use the holes drilled in floor at both sides of tunnel and in right and left side panels below rear quarter windows.

The latter holes are blanked by threaded plugs.

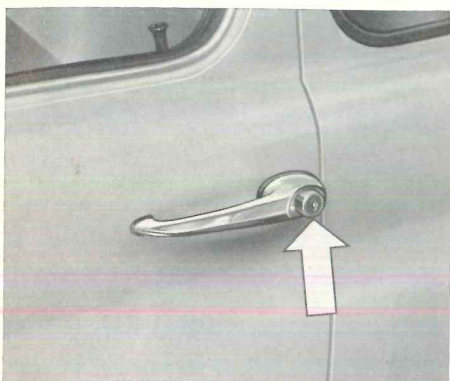
For the anchoring of lap type belts use the holes at tunnel sides and the holes already drilled in floor near doors, behind front seats. **Tunnel and floor holes are blanked by rubber studs and covered by the rubber matting.**

**Note** - Every anchorage consists of a single hole tapped to 7/16" - 20 UNF - 2B.



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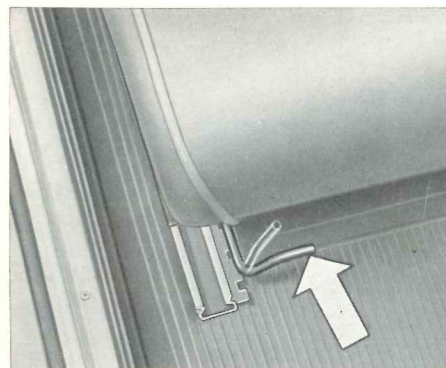
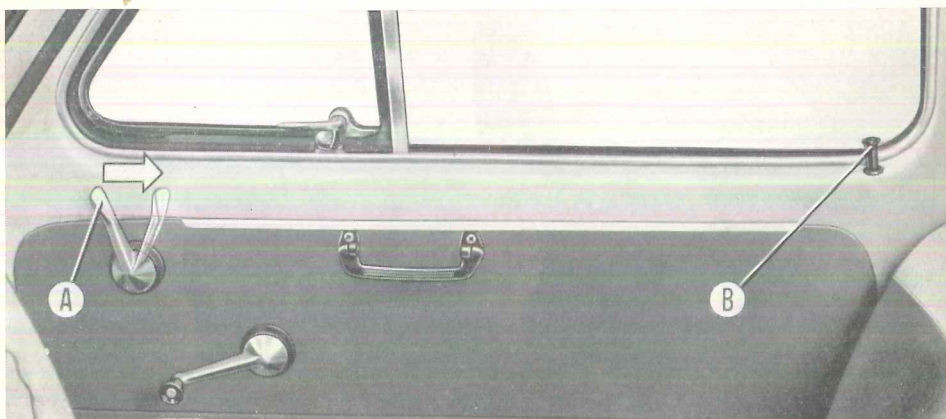
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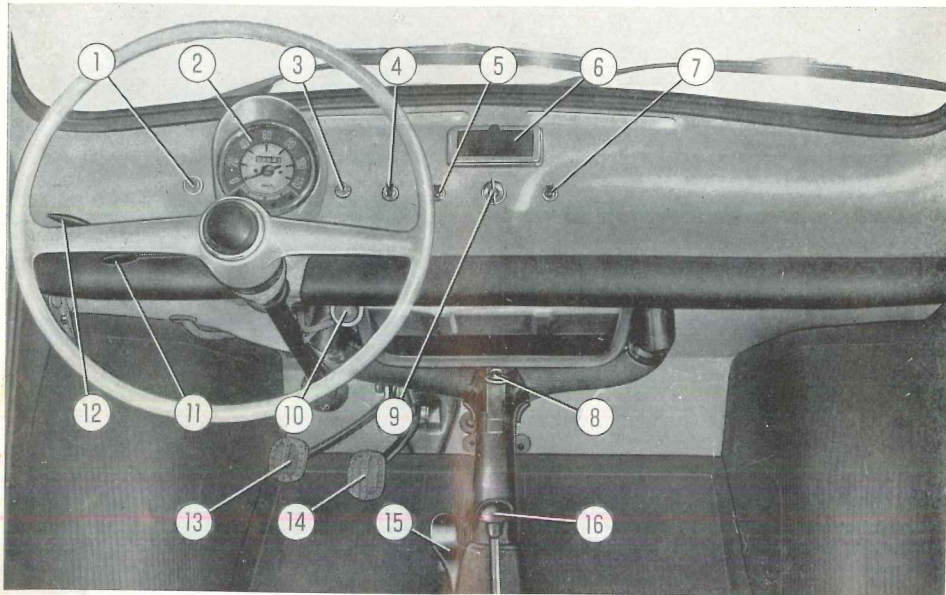
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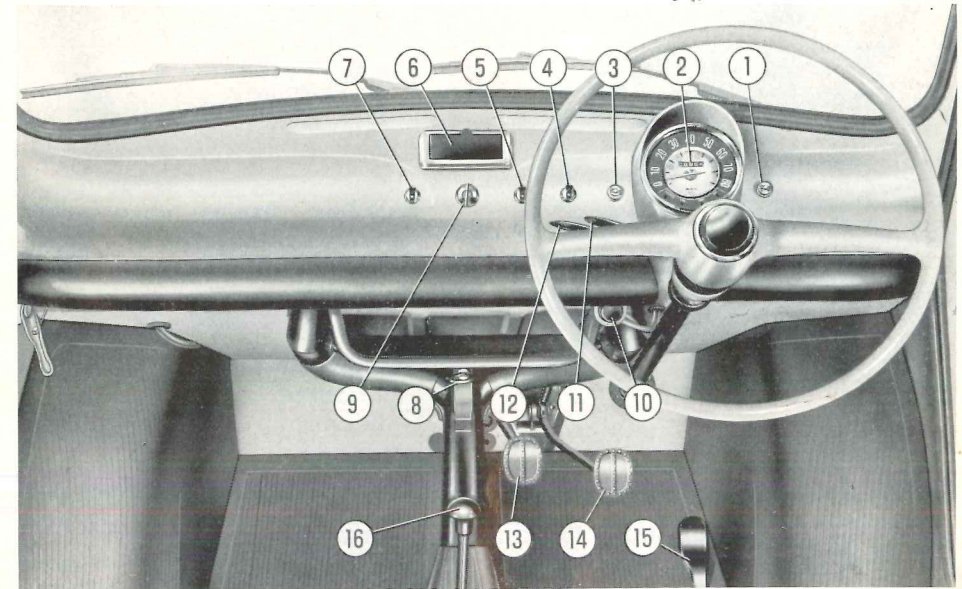
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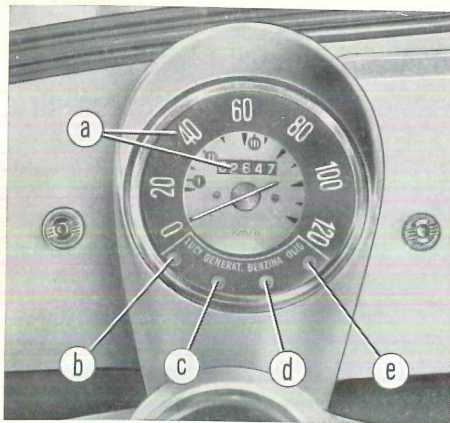
LHD cars.



RHD cars.

## GAUGES AND CONTROLS

**1. Direction indicators pilot light** (green): flashes with direction indicator lamps.



Speedometer gauged in km.

**2. Instrument cluster** (\*), incorporating:

**a) Speedometer and mileage recorder:** red spots on dial indicate maximum speed limits for the first three gears (after break-in).

**b) Parking lights indicator** (green): lights up when outer lighting change-over switch (5) is ON.

(\*) The instrument cluster is factory-sealed: any tampering by unauthorized personnel implies the invalidation of the Warranty.

**c) Generator charge indicator** (red): lights up when ignition is turned on and goes out when generator reaches cutting-in speed [engine speed over 1200 rpm; car at 25 km/h (15.5 miles) in 4th gear].

**d) Fuel reserve indicator** (red): lights up when only 3.5 to 5 liters (.9-1.3 U.S. or .8-1.1 G.B. Gals) of fuel remain in tank.

**e) Insufficient oil pressure indicator** (red): is out when oil pressure is sufficient to ensure proper engine lubrication.

With hot engine and low r.p.m. rates, however, the indicator may

light up even if operating conditions are normal.

**3. High beam indicator** (blue).

**4. Cluster light switch:** the cluster lights up only if switch 5 is ON.

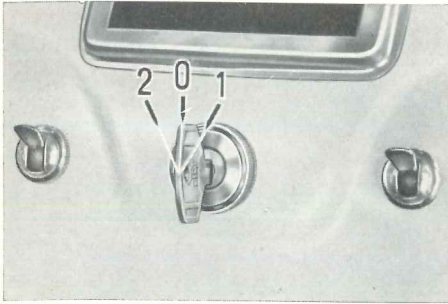
**5. Outer lighting switch:** turns ON the parking lights and the number plate light, and energizes the circuits of the switch controlled by lever (12) and of the cluster light.

**6. Ash receiver:** to clean the ash receiver take it out of fascia.

**7. Windshield wiper switch.**

**8. Hand accelerator (throttle).**





**9. Lock switch (\*)**

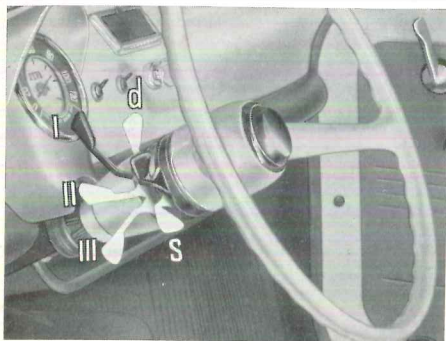
**Position 0:** all OUT (key can be pulled out) (\*\*).

**Position 1:** ignition and services energized (key cannot be pulled out) (\*\*).

**Position 2:** parking lamps ON, with High/Low beams change-over switch lever (12) in position I (key can be pulled out) (\*\*).

With engine stopped **never leave** key in position 1.

**10. Windshield washer pump:** to wash the windshield depress several times the rubber bulb and at the same time turn on windshield wiper switch 7.



**11. Direction indicators control lever:**

d = right turn.  
s = left turn.

Lever returns to OFF position when steering wheel is back to straight-ahead drive position.

**12. High/Low beams change-over switch lever** (operative with switch 5 turned ON):

**I:** Number plate lamp, front and rear parking lights.

**II:** Headlamp low beams, number plate lamp, front and rear parking lights.

**III:** Headlamp high beams, number plate lamp, front and rear parking lights.

Flashing of headlamps is obtained by tripping the lever upwards even with switch 5 OFF (daylight signals): the beams stay on as long as the lever is held up.

**13. Clutch pedal.**

**14. Brake pedal.**

**15. Accelerator pedal.**

**16. Gearshift lever:** see page 15.

— **Hand brake lever:** see page 15.

(\*) Optional-extra: lock switch with anti-theft device.

(\*\*) The circuits of the courtesy light in rear view mirror and of horn are always energized and are independent of the lock switch.

(\*\*\*) With key in positions 1 or 2 the following circuits are energized:

- headlamps (high beams, low beams and flashes), parking lights with relevant indicator and number plate lamp.
- high beam indicator.
- instrument cluster light.
- windshield wiper.

With key in position 1, the following circuits are energized in addition to the above:

- fuel reserve indicator.
- generator charge indicator.
- insufficient oil pressure indicator.
- direction indicators and pilot light.
- rear stop lights.

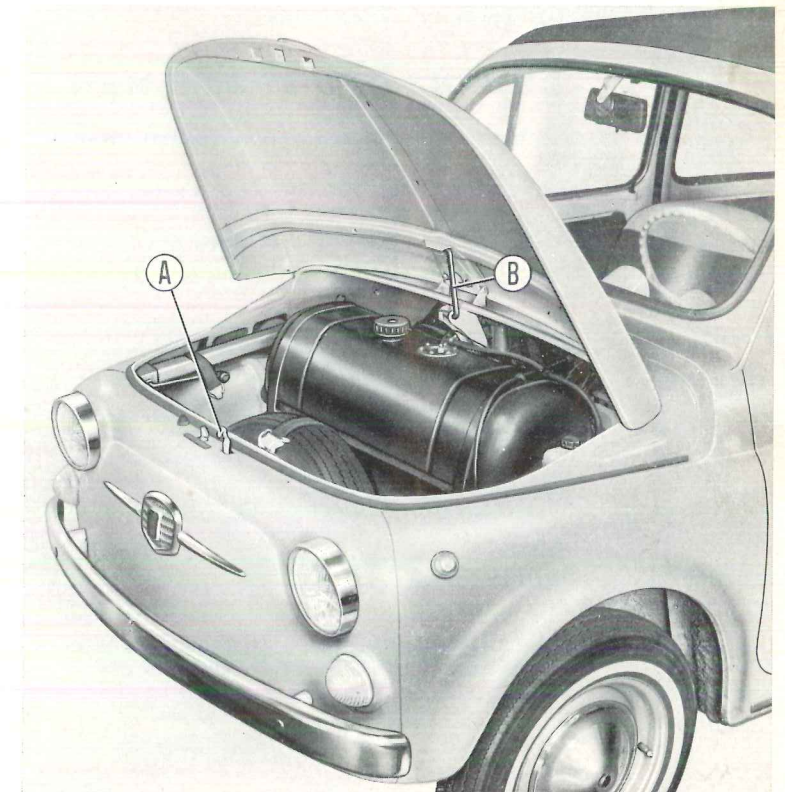
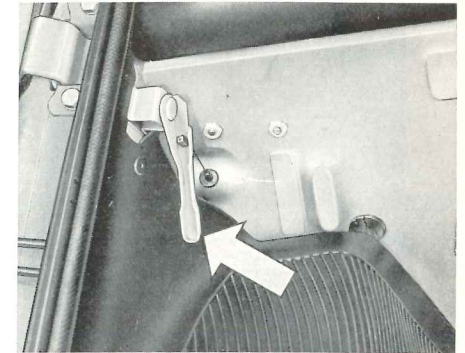
**FRONT COMPARTMENT LID**

To release front lid, pull the lever under dash, on the left side.

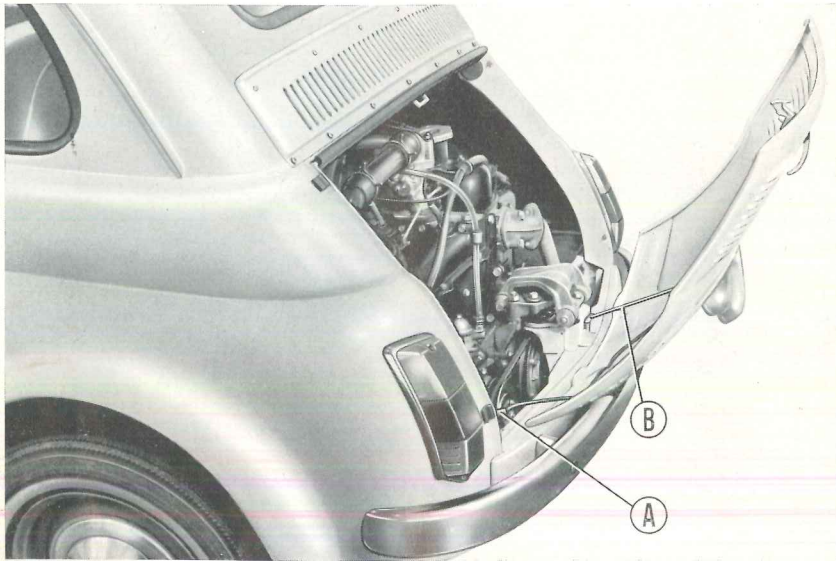
To lift the lid, insert fingers and push in the safety catch **A**.

Lid is kept raised by prop **B**.

The fuel tank (with screw cap), brake fluid reservoir, spare wheel, battery, jack and tool box are all housed in front compartment.







## ENGINE COMPARTMENT

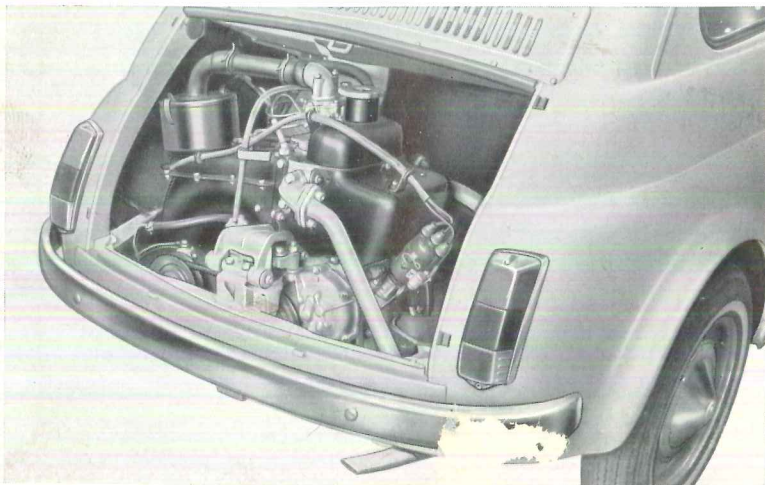
To open the lid, pull the handle.

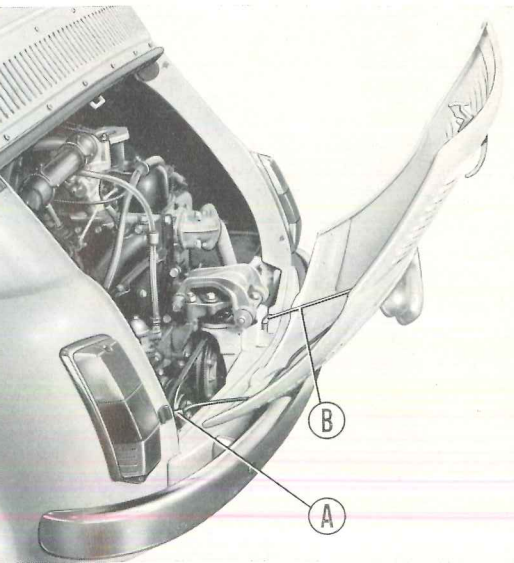
To remove the lid, if necessary:

- Disinsert the number plate lamp cable plug-in connector **A**.
- Remove the detent of limiter strap **B**

on engine support; then, disconnect limiter strap end after suitably positioning the retaining crosspiece.

- Back out the nut on right hinge pin and remove the lid from its hinges.





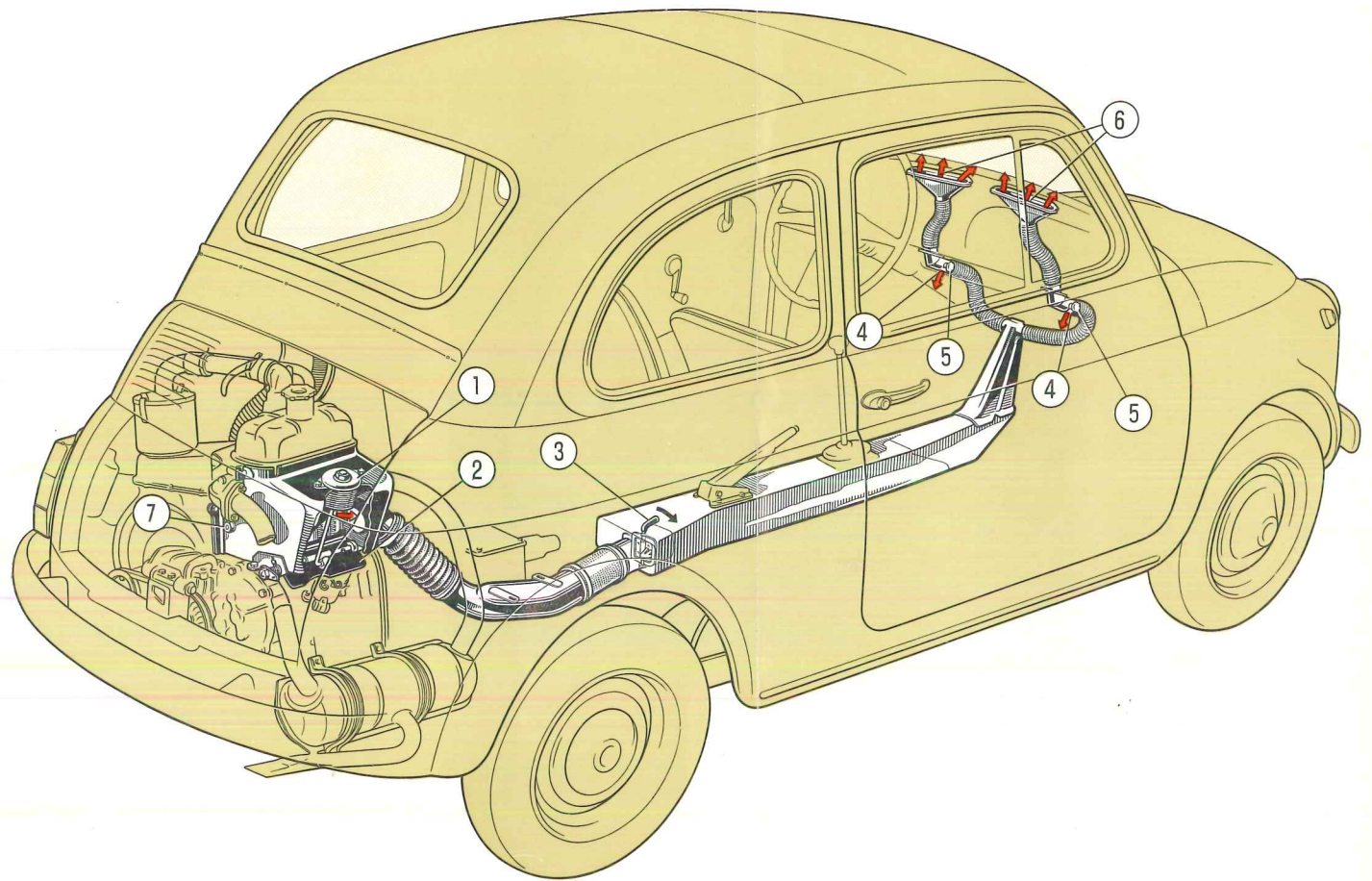
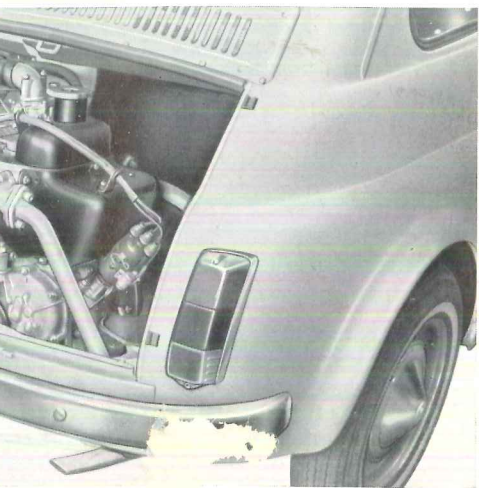
## COMPARTMENT

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o cable

strap **B**



Heating system and windshield demister diagram.

1. Thermostat, controlling air outlet shutter - 2. Shutter, engine cooling air outlet - 3. Lever controlling the butterfly on heater hand control - 4. Warm air outlets - 5. Demister

valve control knobs - 6. Windshield demister diffusers - 7. **Safety vents** (two) (for discharge of gases into the atmosphere in the event of cylinder head gasket failure).





To open the lid, pu  
To remove the lid, f  
— Disinsert the num  
plug-in connector  
— Remove the dete



## VENTILATION - HEATING - WINDSHIELD DEMISTING

### Ventilation.

Door windows: front swivelling vent wing, and regulator-controlled rear drop glass.

### Windshield demisting.

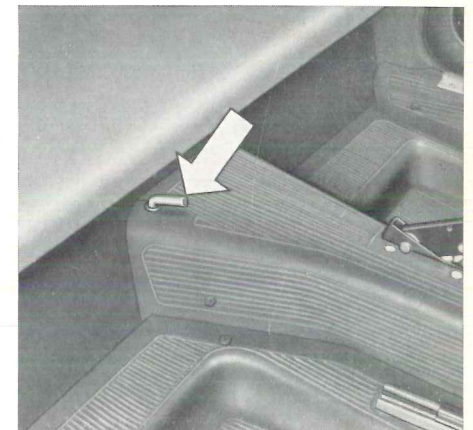
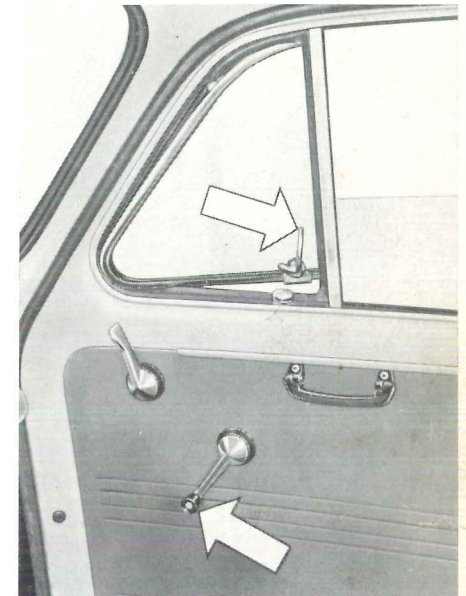
To demist and defrost windshield, open totally or partially the butterfly valves mounted in the diffuser hose connections by suitably turning the two knobs (see diagram).

To promote air circulation inside car, open slightly one of the ventipanes.

### Heating.

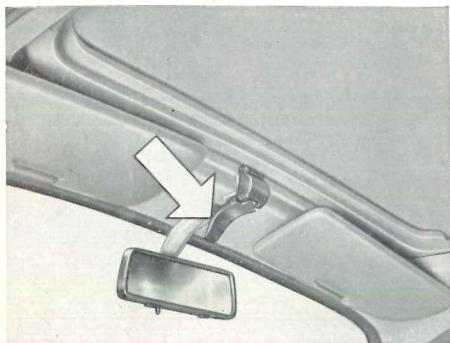
The admission of warm air into floor tunnel may be adjusted by turning **rightwards** the lever located ahead of rear seat.

Warm air enters car through the outlets in the connections of windshield demister hoses (see diagram).





## SUN ROOF



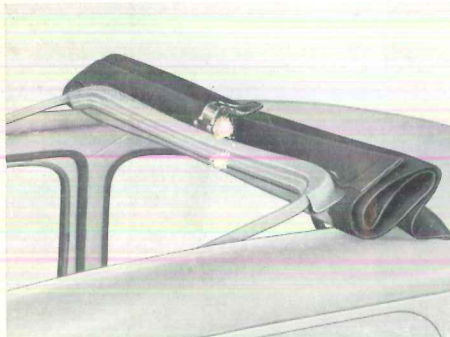
### Opening

- Release the front latch.
- Tilt frame backwards and stretch out the top.
- Fold the top, as shown.

### Closing

- Pull the frame forward by grasping the locking latch lever in case this operation is performed from inside the car; if, instead, the roof is closed from outside, take care not to strike the lever against the roof front cross member.
- Operating **exclusively** from inside the car, and keeping the frame against the roof, push the lever forward making sure that the lever forked end engages with the latch pin on roof cross member.
- **Do not press on the outside of frame** to avoid damaging the latch lever or its support.

To clean the top, wash with a sponge soaked in slightly lathered water.



## STARTING THE ENGINE

### Position of controls for cold starts.

- a) Gearshift lever: in neutral.
- b) Choke lever (**A**, page 15): pulled fully up.
- c) Ignition lock switch key: **turned clockwise** to the stop.

With controls set as described:

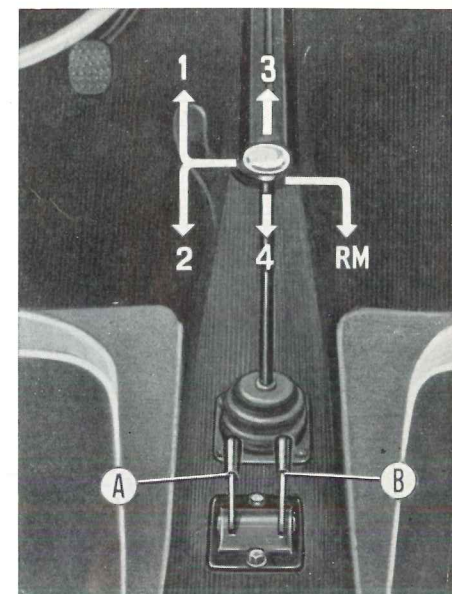
- Pull up starter control lever (**B**, page 15). **Do not press accelerator pedal** until engine is started up. When engine fires regularly, push lever down as far as it will go.

- Push choke lever **A** down **gradually** (carburetor starting device is adjustable in accordance with climatic and engine temperature conditions) bringing the lever **to stroke end** when engine has warmed up sufficiently. This prevents lubricant dilution.

### Hot starts.

**When engine is warm** leave choke lever **A** down.

**When engine is very hot** it might be necessary to **depress** accelerator pedal **fully**, then release it as soon as engine fires.



Press lever **IN** before shifting to engage reverse.

## STARTING THE CAR

- a) Depress the clutch pedal fully.
  - b) Engage 1st gear.
  - c) **Release the hand brake** (to do this, press button on grip top and push down the hand lever).
  - d) Release clutch pedal gradually and at the same time accelerate slowly.
- In Winter wait until engine is well warmed up before opening warm air outlets to heat the interior.

## ON THE ROAD

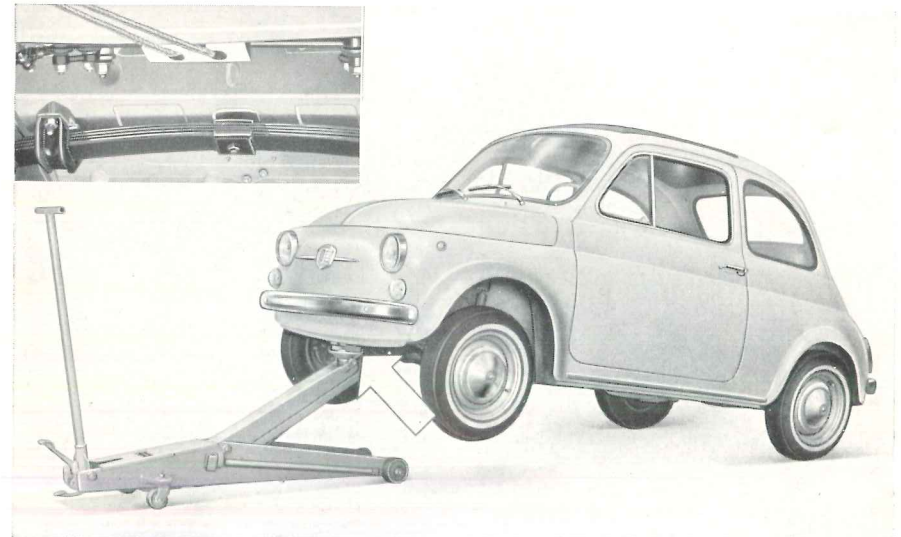
- **Never exceed** (even on downgrades) the speed limits indicated by red spots on speedometer dial and the recommended top speed.
- During regular engine operation, all warning indicators (red) in cluster **must be OFF**. If any one lights up, investigate and remedy accordingly.





## HOW TO CHANGE WHEELS

- Place car possibly on level ground and, to prevent any accidental movement, lock rear wheels by applying the hand brake.
- Undo and remove the four fixing screws. Pull off wheel.
- Fit spare wheel. The wheel location dowel on brake drum must fit into the hole provided in wheel disc.
- Insert wheel fixing screws and tighten uniformly in criss-cross sequence.
- Lower car and remove jack.
- Tighten wheel fixing screws fully, still in criss-cross sequence, and re-fit the cap.
- Remove wheel cap by unscrewing the central mounting screw.
- Using the speed handle, slacken the fixing screws about one turn.
- Place jack nub in bracket under car floor, then jack up until wheel to be removed clears the ground.



## JACKING UP AND TOWING

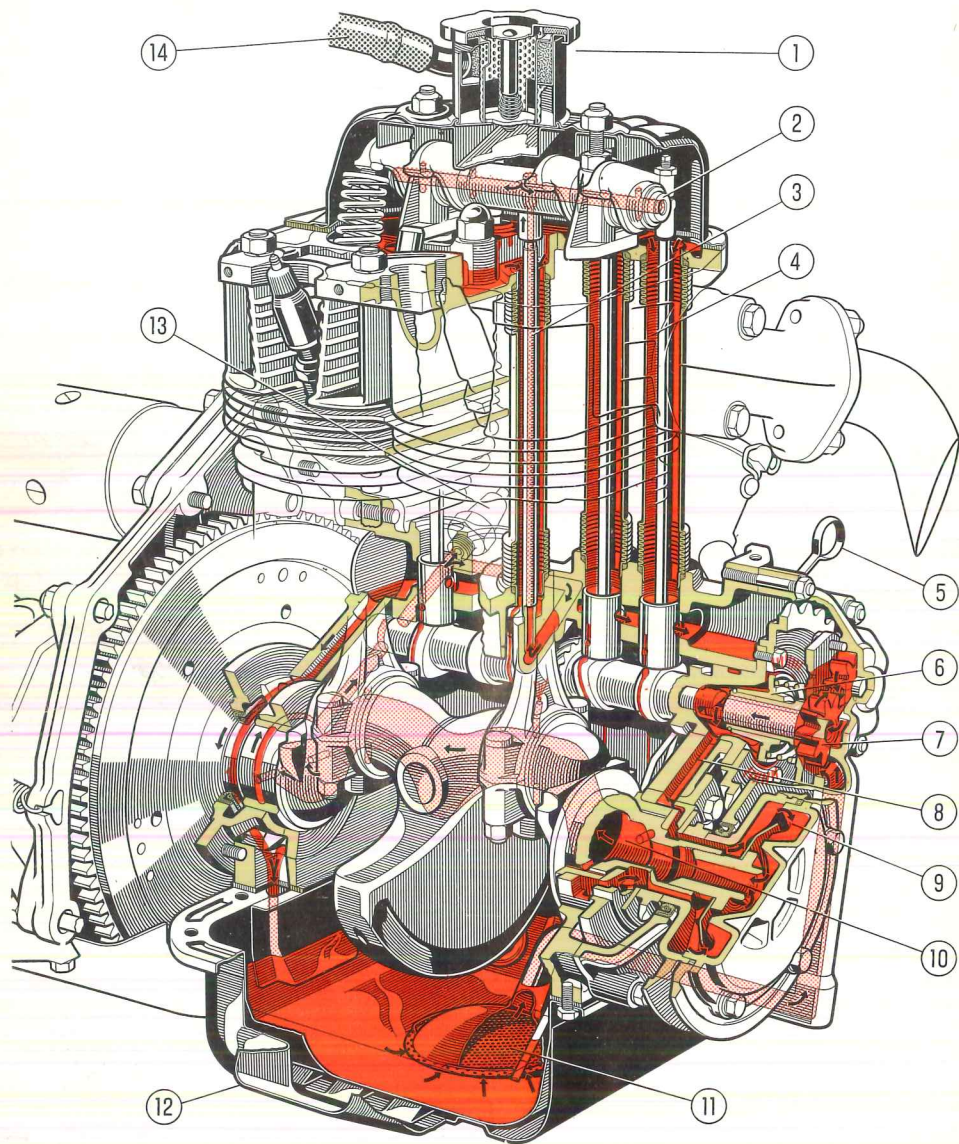
When either the front or rear end of car must be raised with a garage jack, it is indispensable to fit jack head under the specially designed brackets, as shown. A wooden block at least 3 cm

(1 $\frac{1}{4}$  in) thick must **always** be interposed between jack head and bracket.

**Towing:** in case vehicle needs towing, the rope must be secured **only to said front bracket** (see inset).







**Engine lubrication diagram.**

1. Oil filler with vent valve - 2. Rocker shaft - 3. Line, oil delivery to rocker shaft - 4. Ducts, cylinder head oil drain - 5. Level indicator rod - 6. Oil pressure relief valve - 7. Gear pump - 8. Oil duct to centrifugal filter - 9. Centrifugal oil filter - 10. Crankshaft with central oil gallery - 11. Oil pump intake screen filter - 12. Sump cooling air conveyor - 13. Insufficient oil pressure indicator sending unit - 14. Crankcase vapors and blow-by gases recirculation line to air cleaner (CEC).

# M A I N T E N A N C E

## CONSULTING THE CHARTS

The periodical maintenance operations recommended in relation to given mileages, are listed in two charts: one covers the points to be lubricated and the other the cleaning, inspection and adjustment operations. Each operation is identified by a number and, in the corresponding note, reference is made to the page where the operation is described. In the lubrication chart is also given, next to each operation, a symbol indicating the grade of lubricant to be used. For oil grades not mentioned here, see « Fill-up Data ».

Particular stress is laid on the importance of reporting to a FIAT Service Station for all the maintenance operations marked



**NOTICE** - Besides the routine maintenance operations listed in the charts this chapter describes other operations that must be performed only in exceptional cases of defective operation of mechanical units and with which the car owner should become familiar.

## ENGINE LUBRICATION

### Engine oil

**Every 500 km (300 miles):** check oil level. It must always result between the **Min** and **Max** marks on indicator rod. Do this after running the engine for about 1 minute. If necessary, top up.

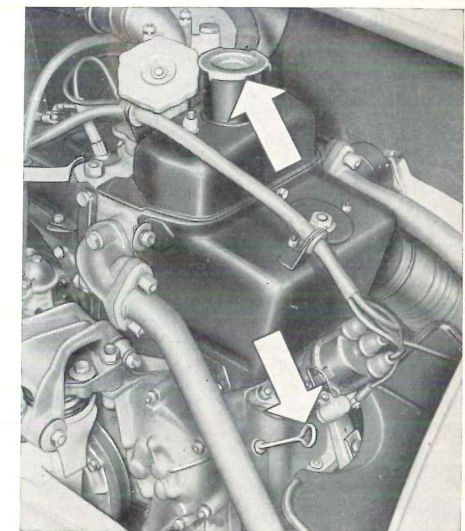
**Note:** To ensure good sealing of indicator rod handle ferrule on its seat in crankcase, be sure to push the rod fully in; if necessary, turn the rod to-and-fro a few degrees.

**Every 10,000 km (6,000 miles) or every 6 months,** whichever occurs first: replace oil. With engine **well warmed up**, allow to drain for at least 10-15 minutes: during this period, crank the engine a few seconds with the electric starter (ignition OFF) to empty crankshaft of any oil.

When engine is new, replace oil after the first 1000-1300 miles. After 2500-3500 miles renew oil - Coupons **A** and **B** of the **Service Certificate**.

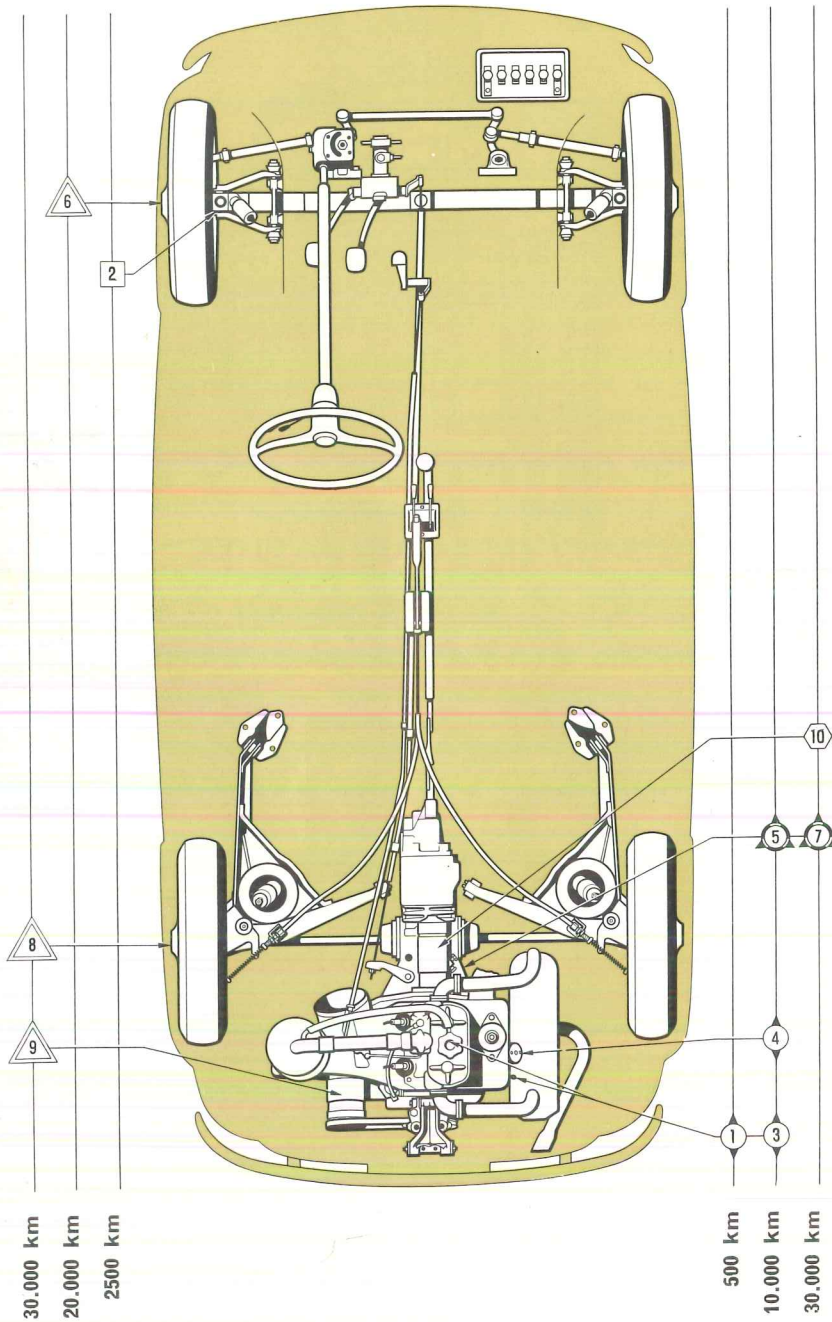
### Centrifugal oil filter

Disassemble and clean accurately **only when proceeding with a general overhaul** of engine.






## GENERAL LUBRICATION CHART




<b>Every 500 km (300 miles)</b>		Page
1. Engine oil	. . . . .	19
 <b>Every 2,500 km (1,500 miles)</b>		
2. King pins	. . . . .	29
 <b>Every 10,000 km (6,000 miles)</b>		
3. Engine oil	. . . . .	19
4. Ignition distributor	. . . . .	26
5. Transmission and differential oil	. . . . .	28
 <b>Every 20,000 km (12,000 miles)</b>		
6. Front wheel bearings	. . . . .	32
— Door-hinges	. . . . .	36
 <b>Every 30,000 km (18,000 miles)</b>		
7. Transmission and differential oil	. . . . .	28
8. Rear wheel bearings	. . . . .	32
9. Generator	. . . . .	32
10. Starter	. . . . .	32


### LUBRICANTS




**FIAT engine oil**  
(see "Fill-up Data")




**FIAT W 90/M oil**



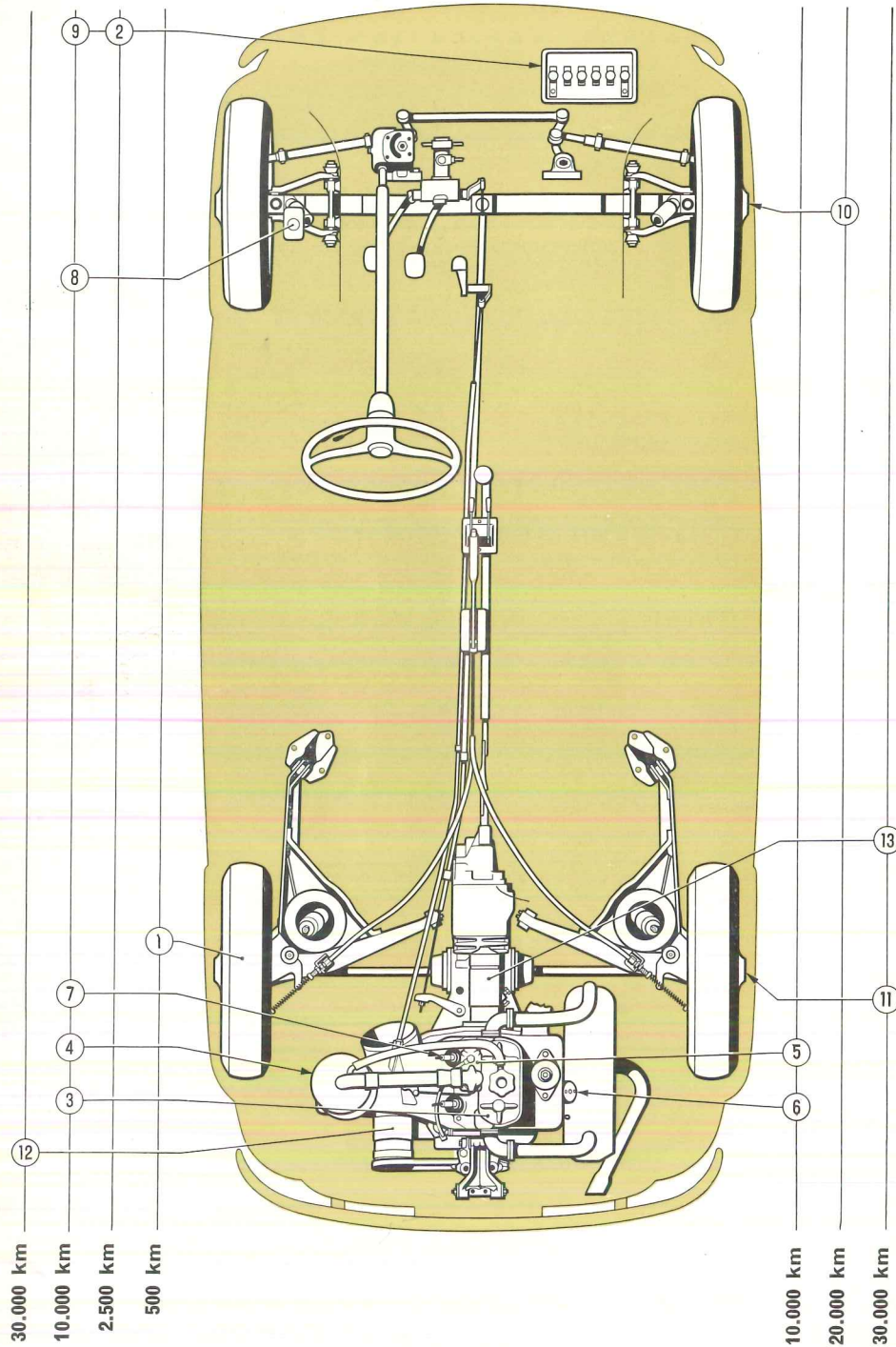
**FIAT Jota 1**  
grease



**FIAT MR 2**  
grease



**FIAT MR 3**  
grease



## INSPECTION, CLEANING AND ADJUSTMENT CHART

Every 500 km (300 miles)

Page

1. Tires . . . . . 32

Every 2,500 km (1,500 miles)

2. Battery . . . . . 32

Every 10,000 km (6,000 miles)

3. Valve clearance . . . . . 24

4. Air cleaner . . . . . 24

5. Carburetor . . . . . 25

6. Ignition distributor . . . . . 26

7. Spark plugs . . . . . 26

8. Brake fluid reservoir . . . . . 28

9. Battery . . . . . 32

— Road test . . . . . 37

Every 20,000 km (12,000 miles)

— Carburetor . . . . . 25

— Crankcase emission control system . . . . . 25

10. Front wheel bearings . . . . . 32

— Mechanical units anchoring to body . . . . . 36

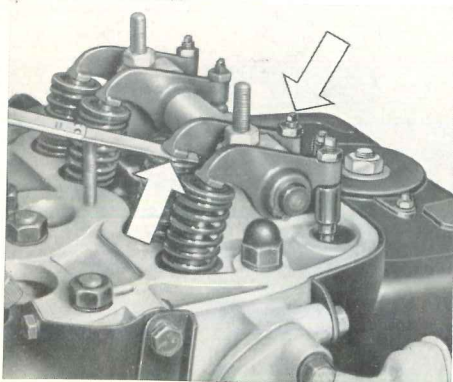
Every 30,000 km (18,000 miles)

11. Rear wheel bearings . . . . . 32

12. Generator . . . . . 32

13. Starter . . . . . 32



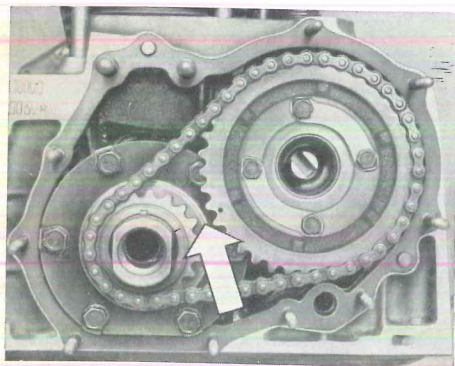


## VALVE GEAR

### Valve clearance

**FIAT SERVICE** Every 10,000 km (6,000 miles): or whenever tappet operation becomes very noisy, have a Service Station check valve tappet clearance which, **with cold engine**, must be 0.15 mm (.0059 in) both for intake and exhaust valves.

When engine is new valve tappet clearance must be checked after the first 1000-1300 miles and after 2500-3500 miles (Coupons **A** and **B** of the Service Certificate).



### Valve gear timing

With reference marks lined up as shown timing is correct.

**FIAT SERVICE** Timing checks, if necessary, should be performed by a Service Station.

## FUEL SYSTEM <sup>(1)</sup>

### Air cleaner <sup>(2)</sup>

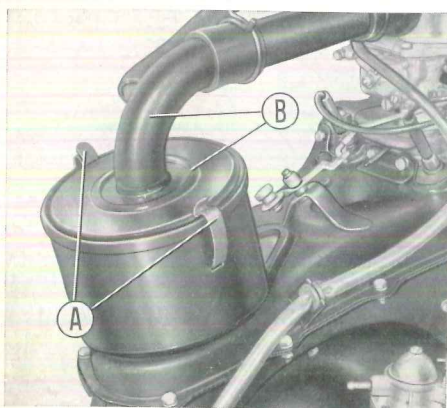
Every 10,000 km (6,000 miles): change the cartridge.

If **dusty conditions prevail**, change cartridge more often.

To disassemble the cleaner for access to the cartridge: release the two fasteners **A** and swing out pipe and cover **B**.

<sup>(1)</sup> Before disassembling fuel pump and relevant lines for cleaning and inspection, disconnect the hose from connection on fuel tank to prevent syphoning of fuel through the suction pipe.

<sup>(2)</sup> An oversize cleaner is fitted as optional extra equipment on cars intended for **prevailing dusty areas**.

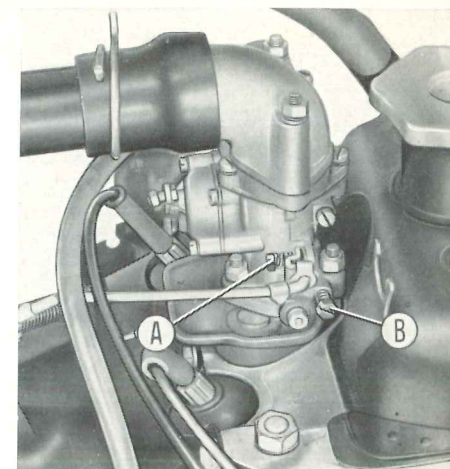


## Carburetor

If engine, though warm, tends to stop at idle speed, correct throttle opening slightly by setscrew **A**. Screw **B** varies idle mixture richness.

**FIAT SERVICE** Every 10,000 km (6,000 miles): clean the jets and the inner strainer, using exclusively an air blast.

Every 20,000 km (12,000 miles): have the carburetor interior cleaned and washed with the proper solution. Performance of the above operations requires the necessary know-how. Always consult a Service Station when the carburetor develops major troubles.



**FIAT SERVICE** Correct sag **A**, under a pressure of 10 kg (22 lbs): about 1 cm (1/2 in).

To stretch the belt:

- Back out pulley mounting nuts **B**.
- Remove outer semi-pulley.
- Take out one spacer (or more) to narrow up pulley groove.
- On re-installing the pulley, the rings - if more than one was removed - should be suitably distributed on the two outer faces of the pulley.
- Secure the pulley by the three nuts **B**.

## Crankcase emission control system

**FIAT SERVICE** Every 20,000 km (12,000 miles) have the CEC system, including carburetor, vent valve and flame trap, cleaned and flushed with the proper solution.

## ENGINE COOLING SYSTEM

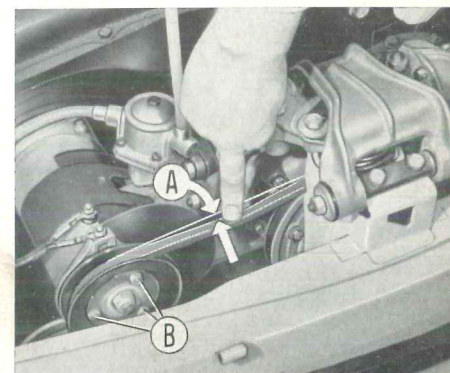
### Air circulation

Circulation of air in engine compartment is adjusted by thermostat **G** (page 39) which should begin to open shutter **F** only when the temperature of engine heated air reaches 70°-74° C (158°-165° F).

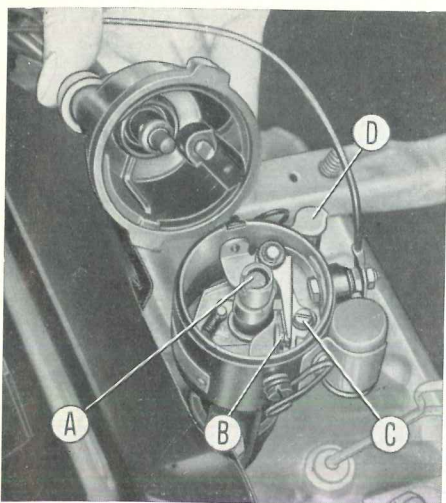
**FIAT SERVICE** Any adjustments, if necessary, shall be carried out at a FIAT Service Station.

### Generator and blower drive belt

Through use the belt can slacken and slip. Hence, have belt tension checked.







## IGNITION SYSTEM

### Ignition distributor

**Every 10,000 km (6,000 miles):** with a few drops of engine oil wet wick **A** and the wick inside oiler **D**.

If contacts **B** are dirty wipe clean with a gasoline-moistened cloth.

**FIAT SERVICE** Check breaker point gap **B** which must be 0.47-0.53 mm (.019-.021 in).

If adjustment is required, slacken screw **C** and re-locate the stationary contact carrier plate.

Following repeated adjustments, or sooner if required, replace the contacts.

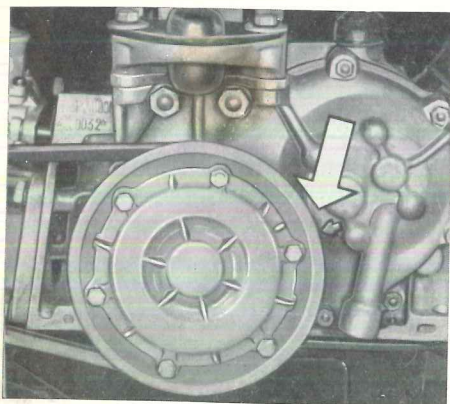
After setting breaker point gap, adjust also engine idle speed rate.

### Spark plugs

**Every 10,000 km (6,000 miles):** clean spark plugs removing all deposits also in the recess between central electrode porcelain liner and body (or better have them sanded) and check electrode gap (0.6-0.7 mm = .024-.028 in). To remove spark plugs, disinsert the cables, unscrew the cap (with rubber seal) and then the spark plugs using the socket wrench. At reassembly, locate rubber seal properly.

### Ignition timing

**FIAT SERVICE** This timing is necessary when the distributor and/or camshaft have been removed.



Time distributor to engine as follows:

- Make sure cylinder No. 1 is in the compression stroke, i.e., with both valves closed.

Bring crankshaft to the position in which the **mark** on generator and blower drive pulley will be located 13-14 mm (.51 to .55 in) *ahead* of the **index** on timing gear cover; this corresponds to a 10° B.T.D.C. advance.

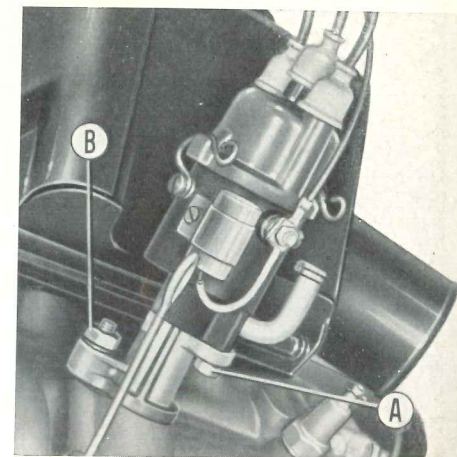
- Insert lower coupling on drive joint, inside the support, in such a position that the distributor mounting stud is located at center of the slot in support.

Lock support to distributor by nut **A**.

- Remove distributor cap and rotate drive shaft by hand until rotor points to contact for firing in cylinder No. 1.

In this position contacts are about to snap open [check first if max. contact distance is 0.47-0.53 mm (.019-.021 in) as specified].

- Without disturbing the distributor drive shaft, install the support and distributor unit in the seat on crankcase, while inserting at the same time the support into the mounting stud; lock the unit on crankcase by nut **B**.

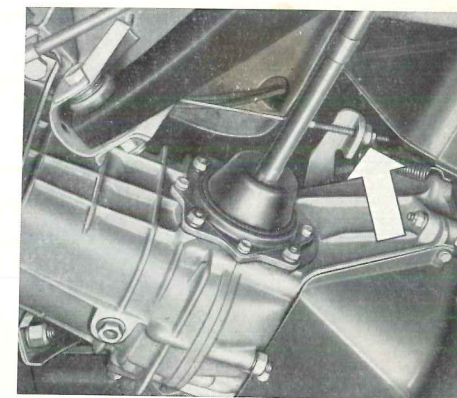


- Check once more that contacts are about to snap open and that rotor points to contact for firing in cylinder No. 1. If necessary, slacken nut **A** and turn some more the distributor body.
- Connect cables to spark plugs in correct sequence.

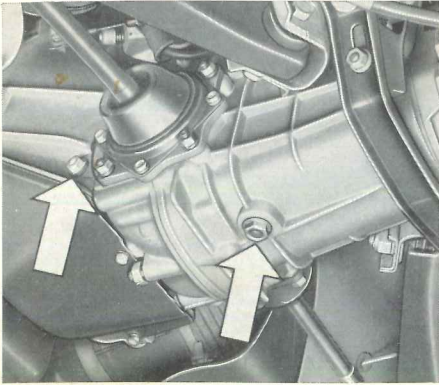
## POWER TRAIN

### Clutch

**FIAT SERVICE** Should the clutch show a tendency to slip check that clutch pedal is set for an approximate 15-20 mm (.6 to .8 in) free travel. If necessary, re-adjust by stretcher. Secure in position by the locknut.







### ***Transmission and differential oil***

**Every 10,000 km (6,000 miles):** check oil level which must reach plug seat bottom edge.

**Every 30,000 km (18,000 miles):** renew oil after washing carefully the casing with kerosene. Let drip thoroughly before refilling.

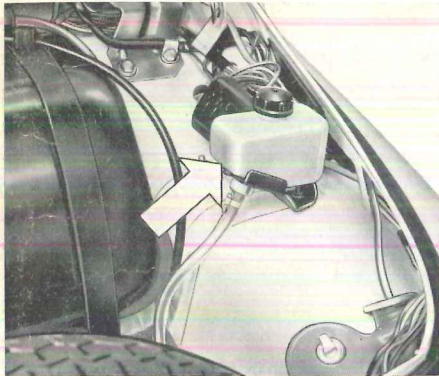
## **BRAKES**

### ***Brake fluid reservoir***

**Every 10,000 km (6,000 miles):** check level and, if required, top up.

Checking this level more frequently, however, is a good practice.

Use exclusively the "**Liquido speciale FIAT etichetta azzurra**," (Special FIAT Blue Label fluid) or equivalent HD non-mineral grade.



### ***Brake system***

**Brake shoes are self-centering and self-adjusting and, hence, no shoe clearance adjustment will be required.**

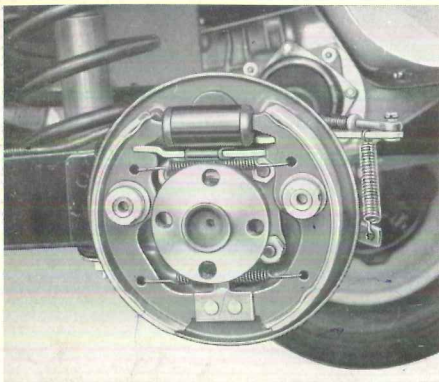


Should pedal free travel become excessive or should braking unbalance on one wheel be appreciable, a complete inspection of the system should be performed at a Service Station.

In case brake system has been drained it must be air bled, after refilling.

This is a delicate operation and should be entrusted to a FIAT Service Station. However, the following steps have been outlined for the guidance of those who decide to do the work themselves:

- Wipe off any dirt from tip of bleeder connection on top of each wheel cylinder (see diagram). If necessary, unclog central hole.





**and differential oil**

**(6,000 miles):** check  
just reach plug seat

**(18,000 miles):** renew  
carefully the casing  
drip thoroughly be-

**WAXES**

**Reservoir**

**(6,000 miles):** check  
and, top up.  
Check more frequently,  
in practice.

**"Liquido speciale  
Lazurra",** (Special  
fluid) or equivalent HD

**self-centering and  
adjustment, hence, no shoe  
adjustment will be required.**

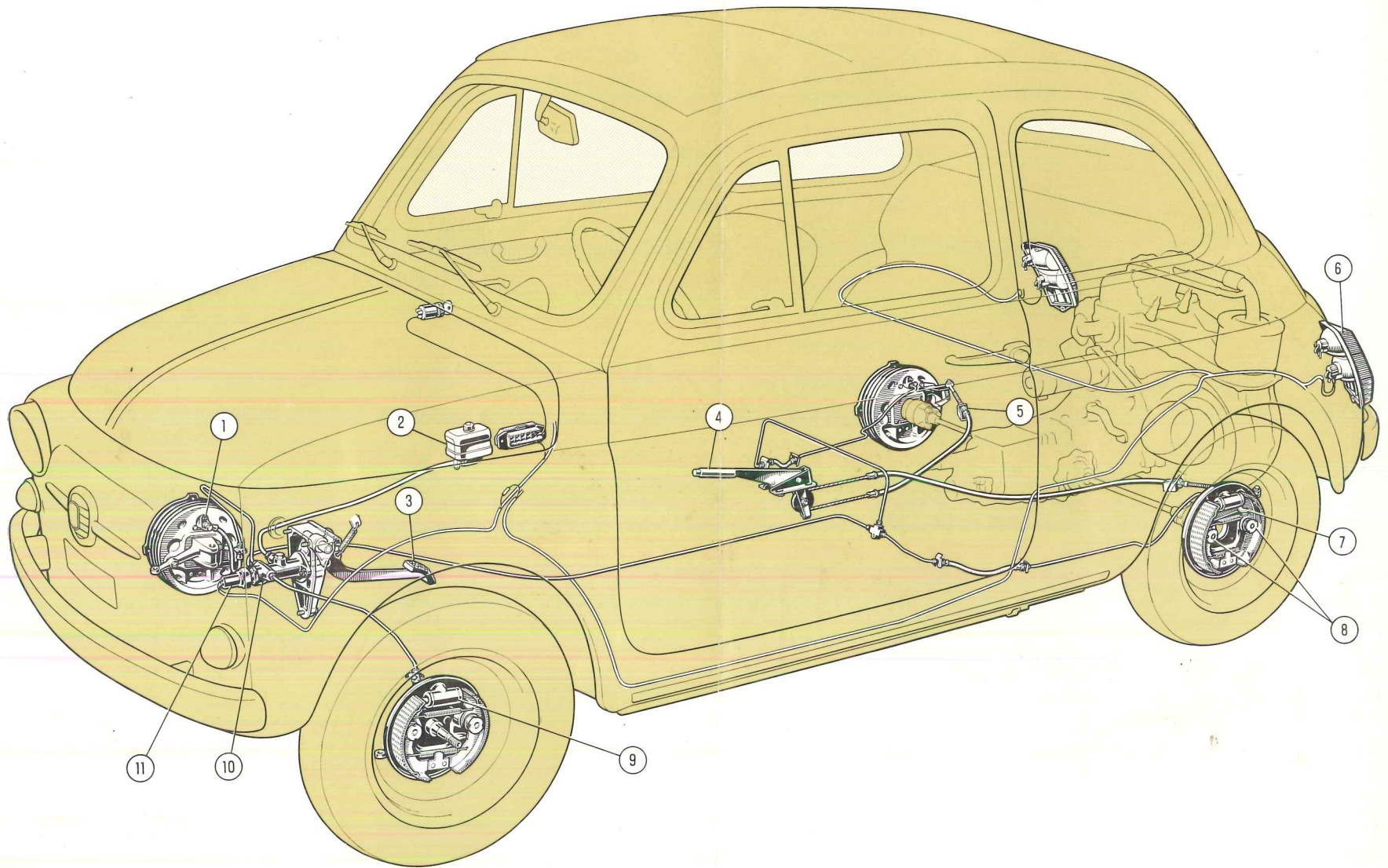
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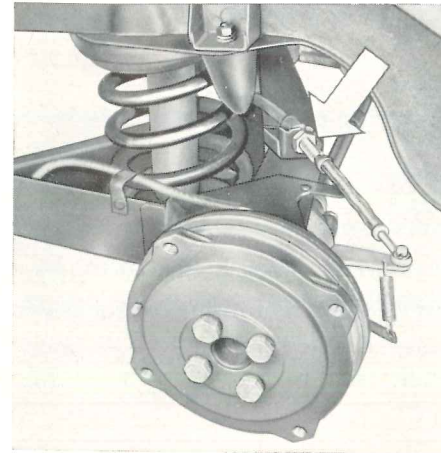


**Diagram of service and hand brake system.**

1. Bleeder connection - 2. Brake fluid reservoir - 3. Service  
brake pedal - 4. Lever, hand brake on rear wheels - 5. Hand  
lever adjustment stretchers - 6. Stop lights - 7. Hand brake

operating lever (controlled by lever 4) - 8. Shoe clearance  
self-adjusting device - 9. Wheel cylinder - 10. Master cylinder -  
11. Stop lights switch.





- Fit one end of bleeder hose on wheel cylinder bleeder connection.
- Immerse the hose other end in a transparent vessel partially filled with brake fluid and slacken the connection half a turn.
- Pump pedal repeatedly and slowly, and watch the fluid running out of hose into vessel; stop pumping when fluid issues in a solid stream without bubbles.
- While keeping brake pedal depressed, tighten bleeder connection and remove bleeder hose. Clean connection tip of any fluid.

Repeat bleeding operation on all wheel cylinders, making sure each time that fluid level in reservoir is sufficient. After bleeding the system, top up reservoir to fill mark.

**WARNING! Never re-use the fluid emptied into vessel unless it is first filtered very carefully.**

### **Hand brake**



If the brake is unable to hold the car when hand lever is pulled to stroke end, bring lever to position of rest, pull lever up of two serrations, then rotate both stretchers located near the brakes on rear wheels. Make sure that when lever is pulled to apply brake, the cable stretches sufficiently before hand lever comes to stroke end.

## **S U S P E N S I O N S**

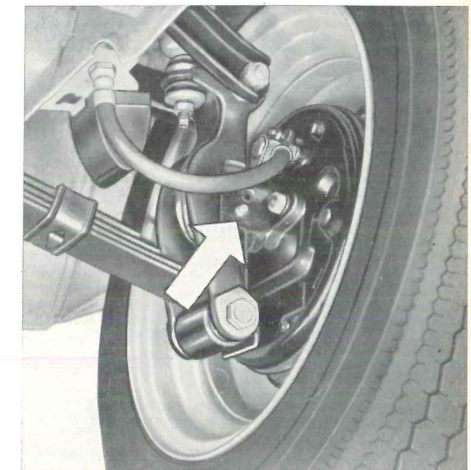
### **King pins**

**Every 2,500 km (1,500 miles):** inject some **FIAT Jota 1** grease in lubricators.

### **Shock absorbers**

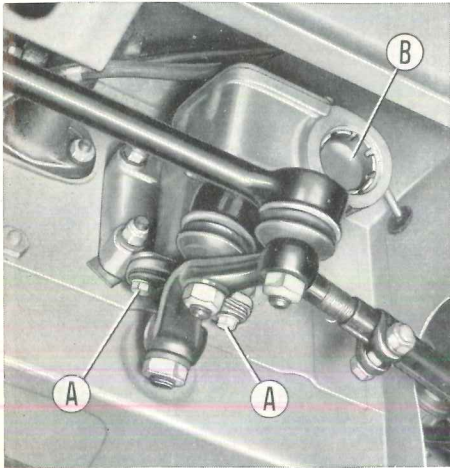


Whenever dampening action becomes irregular have shock absorbers checked at a Service Station.





## STEERING AND WHEELS



### Steering gear adjustments



If excessive play in steering gear develops or if improper response to steering is noticed, have steering mechanism inspected and adjusted at a Service Station. The adjustments must be carried out as follows:

#### a) Backlash between worm screw and sector:

— Remove the two adjustment plate fixing screws **A** and rotate eccentric bush by adjustment plate to bring sector closer to worm screw of such an angle as to permit securing plate again by using the other fixing holes.

— Should adjustment plate be already fixed in the last hole (which would impede repositioning after rotation) remove plate from bush, rotate one or more serrations and secure. For this operation, the steering box must be removed from car.

#### b) Play in worm screw roller bearings:

Screw up adjuster ring **B**.

Both adjustments should eliminate any play without causing tight spots in the control.

### Steering linkage articulations

At every engine oil change or whenever inspections to the chassis are carried out, inspect condition of ball joint rubber caps.



If rubber caps are damaged they must be replaced; the new caps must be filled with

**FIAT MR 3** grease prior to their installation. At the same time inspect ball joints for excessive play.

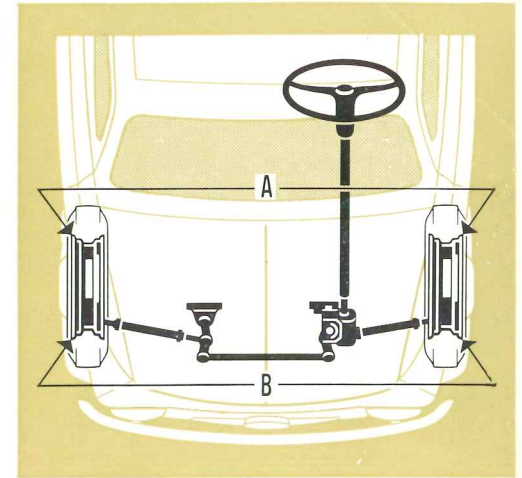
If evidence of looseness exists, the ball joints must be replaced.

### Front wheel geometry



If irregular wear of front wheel tires is noticed, have **toe-in** and **camber** checked.

This check must be carried out with laden car. After loading, move the car a few yards so that suspension components will assume their natural setting under load.

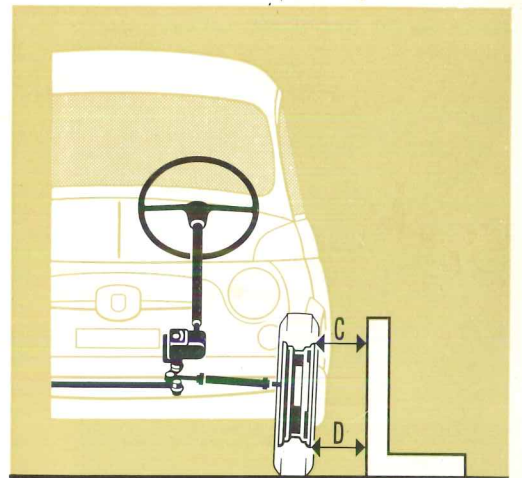


**Toe-in:** measurements must be taken on the same points of wheels: measure in **A**, then move car until points **A** reach position **B** and take a new measurement.

**A** must be equal to **B** or, at most, 2 mm (.08 in) greater.

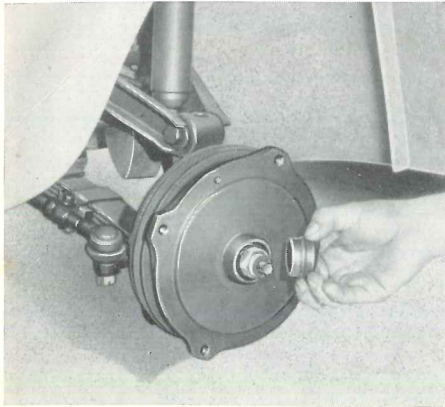
**Camber:** measurements must be taken in the same way as for toe-in, but vertically. **D** must be greater than **C** by 5-6 mm (.19-.23 in).

To re-establish the correct toe-in, length of track rods is adjustable by turning in or out the sleeves after slackening the locking clamps.



After adjusting track rod length as required, check that expansion slot in sleeve registers with clamp joint; with fully tightened clamp, joint faces must not be in contact.





### Wheel bearings

**FIAT SERVICE** Every 20,000 km (12,000 miles): have front wheel bearings lubricated with **FIAT MR 3** grease and adjusted at a Service Station. Every 30,000 km (18,000 miles): have the same operations performed on rear wheel bearings.

### Tires

Every 500 km (300 miles): check pressure with a gauge, not forgetting the spare wheel.

**NOTE** - See «Safe Motoring Hints» for instructions on how to equalize tire wear.

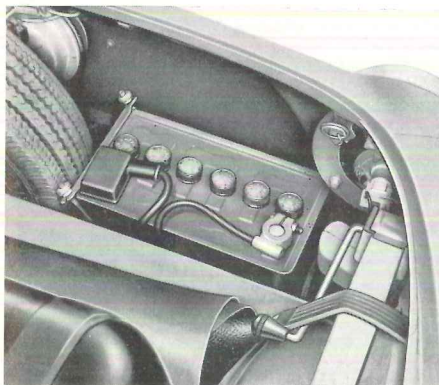
## GENERATING AND STARTING EQUIPMENT

### Battery

Every 2,500 km (1,500 miles): with battery at rest and cold, check electrolyte level and, if necessary, add **distilled water** up to the bottom of the well within each plug.

In summer, check electrolyte level more often.

Every 10,000 km (6,000 miles): check terminals and clamps for tightness and



cleanliness. In case the car is garaged for a considerable time, see «Safe Motoring Hints».

### Generator

**FIAT SERVICE** Every 30,000 km (18,000 miles): clean commutator carefully with a dry cloth; check brushes for wear and contact conditions, and replace if necessary, seating the new brushes on commutator. Lubricate blower end bearing with **FIAT MR 3** grease.

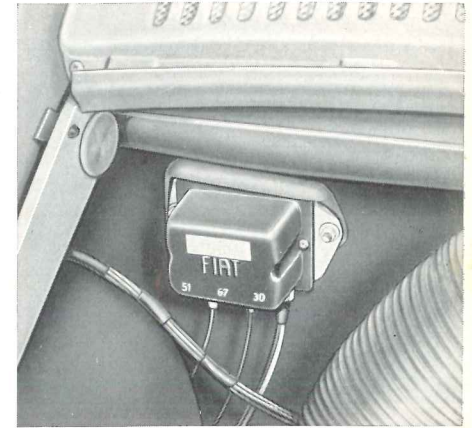
### Starter

**FIAT SERVICE** Every 30,000 km (18,000 miles): clean commutator carefully: check wear and contact conditions of brushes and replace if necessary, seating the new brushes on commutator. When servicing starter, lubricate free wheel components with **FIAT MR 2** grease.

### Generator regulator

**FIAT SERVICE** No tampering with this unit by unauthorized personnel should be permitted. Owners should have the unit overhauled exclusively at a Service Station.

If a radio is fitted on the car, do not insert any interference suppression condenser between terminal No. 67 and ground, since this would cause a rapid wear of contacts of the unit which normally is not a source of radio interference. Furthermore, never interchange cables to terminals No. 67 and No. 51 or else the regulator would be irreparably damaged.



## LIGHTS

### Headlamps

**Removal of headlamp unit.** Pull and unhook ring **A** of the spring fastener locking the unit to body, and push unit out forward.

The replacement of bulb alone is done from inside front compartment.

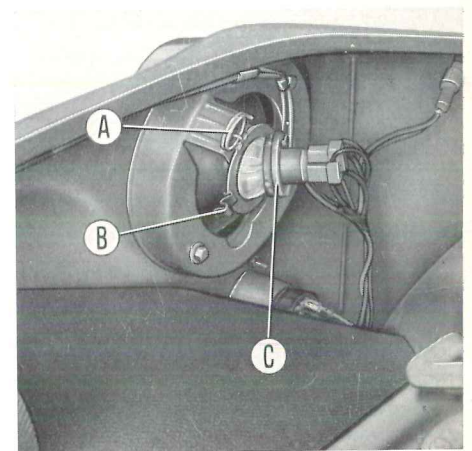
### Aiming the asymmetric low beam headlamps (\*)

**FIAT SERVICE** When headlamp units have been removed, headlamps must be reaimed at a FIAT Service Station. However, one correct aiming procedure is outlined on page 34 for the guidance of owners who wish to perform this check themselves.

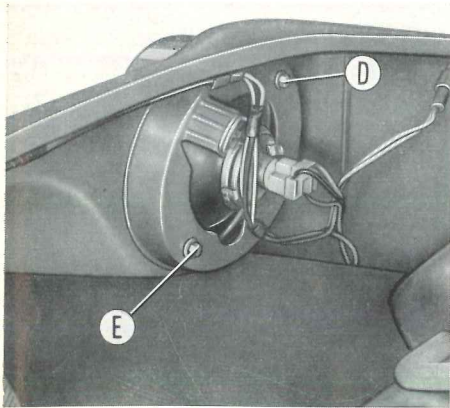
(\*) Identified on lens as follows:

— RH traffic symbol E 3; LH traffic symbol E 3

- A. Ring of the spring fastener locking the unit to body.
- B. Bulbholder retainer.
- C. Double-filament bulb.



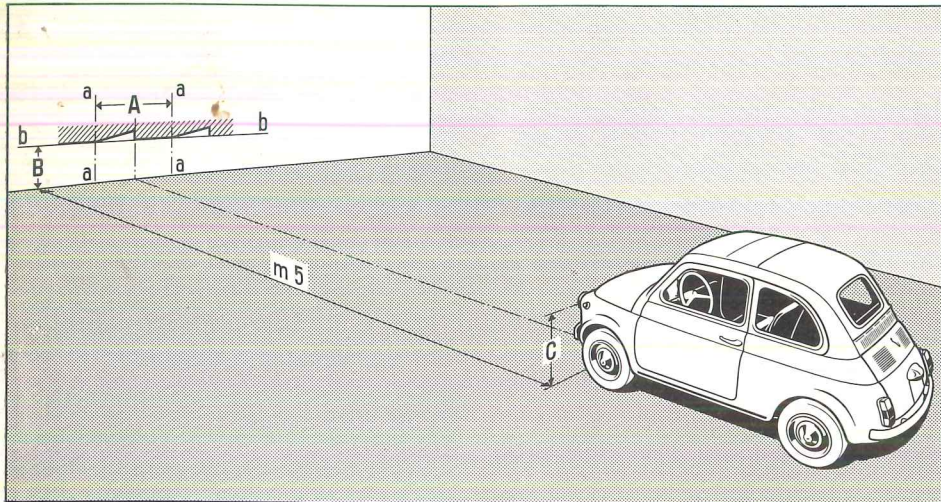




**Checking the low beams:** place the car — unladen and with tires inflated to the specified pressures — as shown below.

The separation line between lit and unlit areas must be on horizontal line **b-b**. Furthermore, the slanting separation lines must start from the intersection points of vertical lines **a-a** (headlamp axes) with horizontal line **b-b**.

Use screw **D** for beam vertical aiming and screw **E** for horizontal aiming.



**A** = Headlamps center-to-center distance.

**B** = **C** minus 3.5 cm ( $1\frac{3}{8}$  in).

**C** = Headlamp height above ground.

For L.H. traffic countries the correct light pattern is the mirror image of the one shown above.

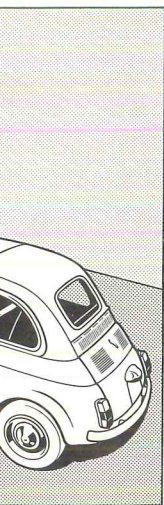


ms: place the  
tires inflated to  
— as shown

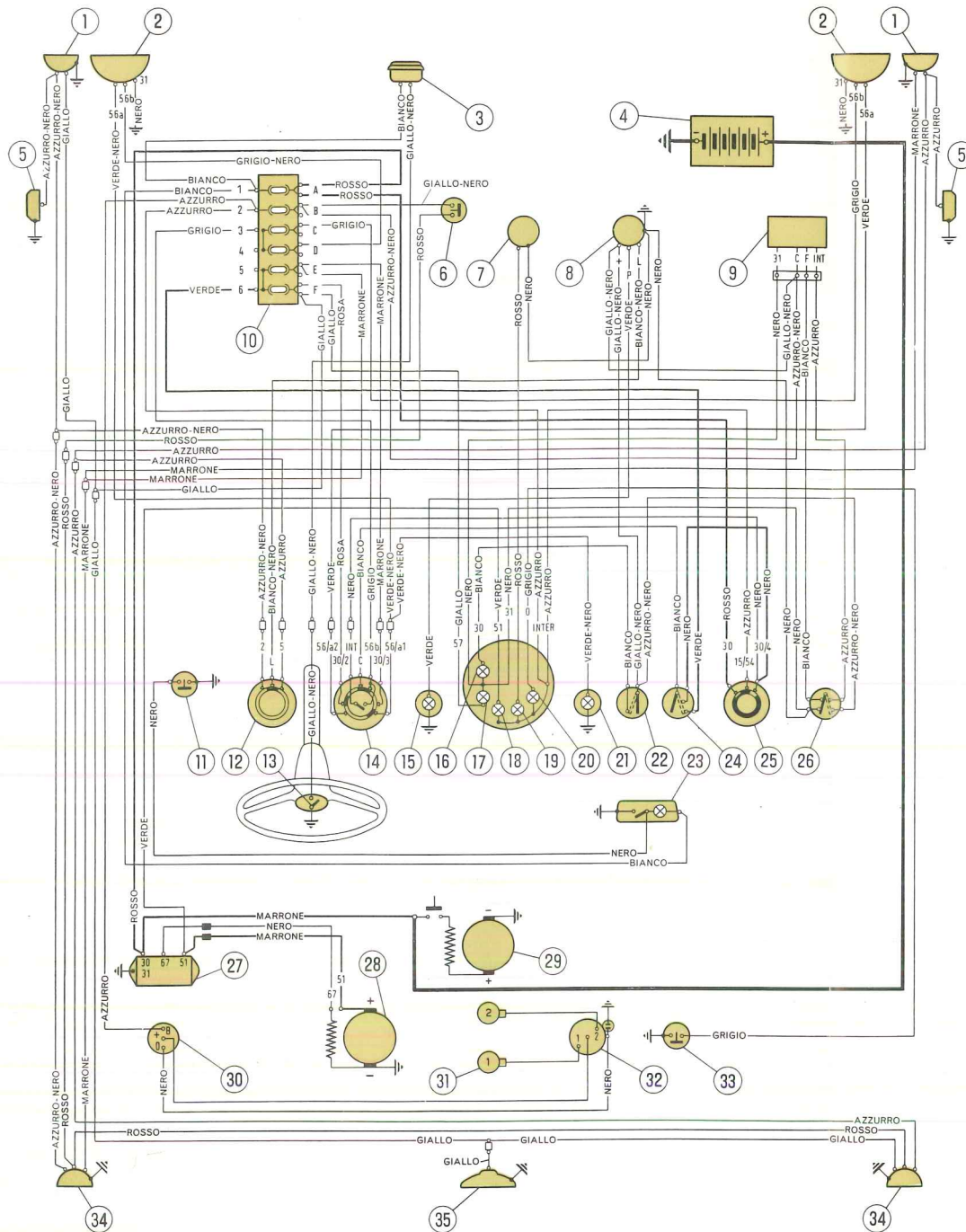
een lit and unlit  
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**a-a** (headlamp  
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vertical aiming  
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ne shown above.



## WIRING DIAGRAM

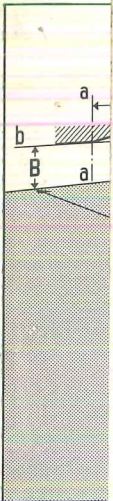
1. Front parking and direction indicator lamps.
2. Headlamps (high and low beams).
3. Horn.
4. Battery.
5. Direction indicator side repeaters.
6. Stop lights switch.
7. Fuel reserve indicator sending unit.
8. Flasher (direction indicators).
9. Windshield wiper motor.
10. Fuses.
11. Courtesy light jam switch on door pillar.
12. Direction indicators switch.
13. Horn button
14. High/low beams change-over switch (controls also headlamp low beam flashes).
15. Direction indicators pilot light.
16. Panel light.
17. Parking lights indicator.
18. Generator charge indicator.
19. Fuel reserve indicator.
20. Insufficient oil pressure indicator.
21. High beam indicator.
22. Panel light switch.
23. Rear view mirror light (courtesy).
24. Outer lighting switch.
25. Lock switch.
26. Windshield wiper switch.
27. Generator regulator.
28. Generator.
29. Starter motor.
30. Ignition coil.
31. Spark plugs.
32. Ignition distributor.
33. Insufficient oil pressure indicator sending unit.
34. Rear parking, stop and direction indicator lamps.
35. Number plate lamp.

Note. - Mark **■** means that cable is provided with numbered strip or ferrule.

### KEY TO CABLE COLORS

Arancione = <b>Orange</b>	Giallo = <b>Yellow</b>	Rosa = <b>Pink</b>
Azzurro = <b>Light blue</b>	Grigio = <b>Grey</b>	Rosso = <b>Red</b>
Blu = <b>Dark blue</b>	Marrone = <b>Brown</b>	Verde = <b>Green</b>
Bianco = <b>White</b>	Nero = <b>Black</b>	Viola = <b>Violet</b>



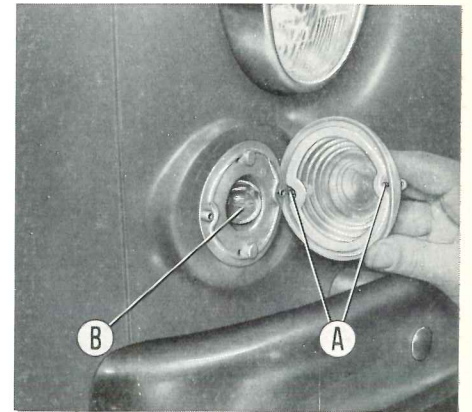


A = Head  
 B = C m  
 C = Head

For L.H. tri

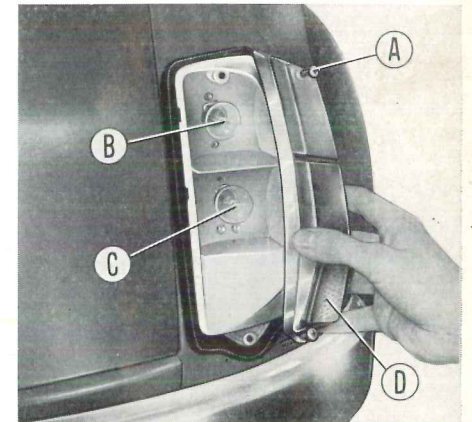
**Front parking and direction indicator lamps**

- A - Lens mounting screws.
- B - Bayonet-coupled bulb (parking and direction indicator).



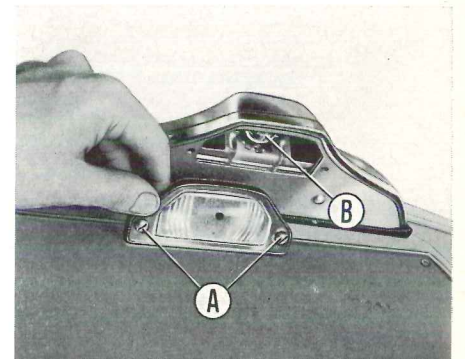
**Rear parking, stop and direction indicator lamps with reflex reflector**

- A - Lens mounting screw.
- B - Bayonet-coupled bulb (direction indicator).
- C - Bayonet-coupled bulb (parking and stop).
- D - Reflex reflector.

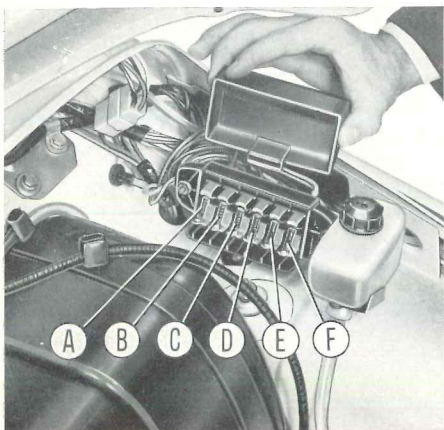


**Number plate lamp**

- A - Lens and light cap mounting screws.
- B - Bayonet-coupled bulb.







## Fuses

Six 8 Ampere fuses, arranged in a box in front compartment. Before replacing a blown fuse trace the cause and remedy accordingly.

**Unprotected circuits:** battery charge with generator charge indicator, ignition, starting, fuel reserve indicator, and insufficient oil pressure indicator.

### PROTECTED CIRCUITS

A/1	B/2	C/3	D/4	E/5	F/6
<ul style="list-style-type: none"> <li>- Horn.</li> <li>- Lamp in rear view mirror.</li> </ul>	<ul style="list-style-type: none"> <li>- Direction indicators and pilot light.</li> <li>- Panel light.</li> <li>- Stop lights.</li> <li>- Windshield wiper.</li> </ul>	<ul style="list-style-type: none"> <li>- Right head-lamp low beam.</li> </ul>	<ul style="list-style-type: none"> <li>- Left head-lamp low beam.</li> </ul>	<ul style="list-style-type: none"> <li>- Left head-lamp high beam.</li> <li>- High beam indicator.</li> <li>- Front right parking lamp.</li> <li>- Rear left parking light.</li> </ul>	<ul style="list-style-type: none"> <li>- Right head-lamp high beam.</li> <li>- Front left parking lamp.</li> <li>- Rear right parking light.</li> <li>- Parking lamps indicator.</li> <li>- Number plate lamp.</li> </ul>

## BODYWORK

### Body-mounted mechanical units



**Every 20,000 km (12,000 miles):** have their anchoring to body checked for proper tightness.

### Door hinges

**Every 20,000 km (12,000 miles):** lubricate these hinges with a brush dipped in engine oil.

## ACCESSORIES

### Windshield washer

To clean the jets and gauze filter in bottle proceed as follows:

- remove the jet hexagonal retainer nut and clean jet squirt hole accurately;
- clean gauze filter on the suction end of bottle outlet pipe.

In case the jet is incorrectly aimed, adjust as follows:

loosen the screw on jet head, reposition the hexagonal retainer nut so as to direct the water squirt to top of wiper sweep arc and retighten the screw.

For windshield washer refilling see « Fill-up Data ».

## MISCELLANEA

### Road test



**Every 10,000 km (6,000 miles):** drive the car to a FIAT Service

Station for an overall check on road

of the efficiency of all mechanical units, electrical equipment and bodywork.

## TOOL KIT

In a box located on the right side in front compartment, where also the jack is housed.

The kit includes:

- Wrench, double end, 8 x 10 mm.
- Wrench, double end, 13 x 17 mm.
- Punch, straight.
- Screwdriver, double-tipped.
- Wrench, socket, for spark plugs.
- Speed handle.



# SPECIFICATION

## ENGINE

Type . . . . . 110 F.000  
 Number and arrangement of cylinders . . . . . 2, vertic., in line  
 Bore and stroke . . . . . 67.4 x 70 mm  
 (2.653 x 2.755 in)  
 Total piston displacement . . . . . 499.5 cm<sup>3</sup>  
 Compression ratio . . . . . 7.1 to 1  
 Max. power output - DIN rating . . . . . 18 HP

### VALVE GEAR

Overhead valves, with camshaft in crankcase. Timing data:

Intake	}	Opens: B. T. D. C. . . . .	25°
		Closes: A. B. D. C. . . . .	51°
Exhaust	}	Opens: B. B. D. C. . . . .	64°
		Closes: A. T. D. C. . . . .	12°

Tappet clearance adjustment for valve timing . . . . . 0.39 mm  
 (.0154 in)

Final tappet operation clearance adjustment, **with cold engine:**  
 intake and exhaust . . . . . 0.15 mm (.0059 in)

### FUEL SYSTEM

**Weber 26 IMB 10** carburetor, with progressive-action starting device.

### Carburetor data:

Venturi diameter . . . . . 21.00 mm  
 Main jet diameter . . . . . 1.12 »  
 Idle jet diameter . . . . . 0.45 »  
 Starting jet diameter . . . . . 0.90 »  
 Paper cartridge air cleaner.

Crankcase emission control system by recirculation of blow-by gases and crankcase vapours.

### LUBRICATION

Forced, by gear pump; pressure relief valve. Thorough oil cleaning by full-flow centrifugal filter.

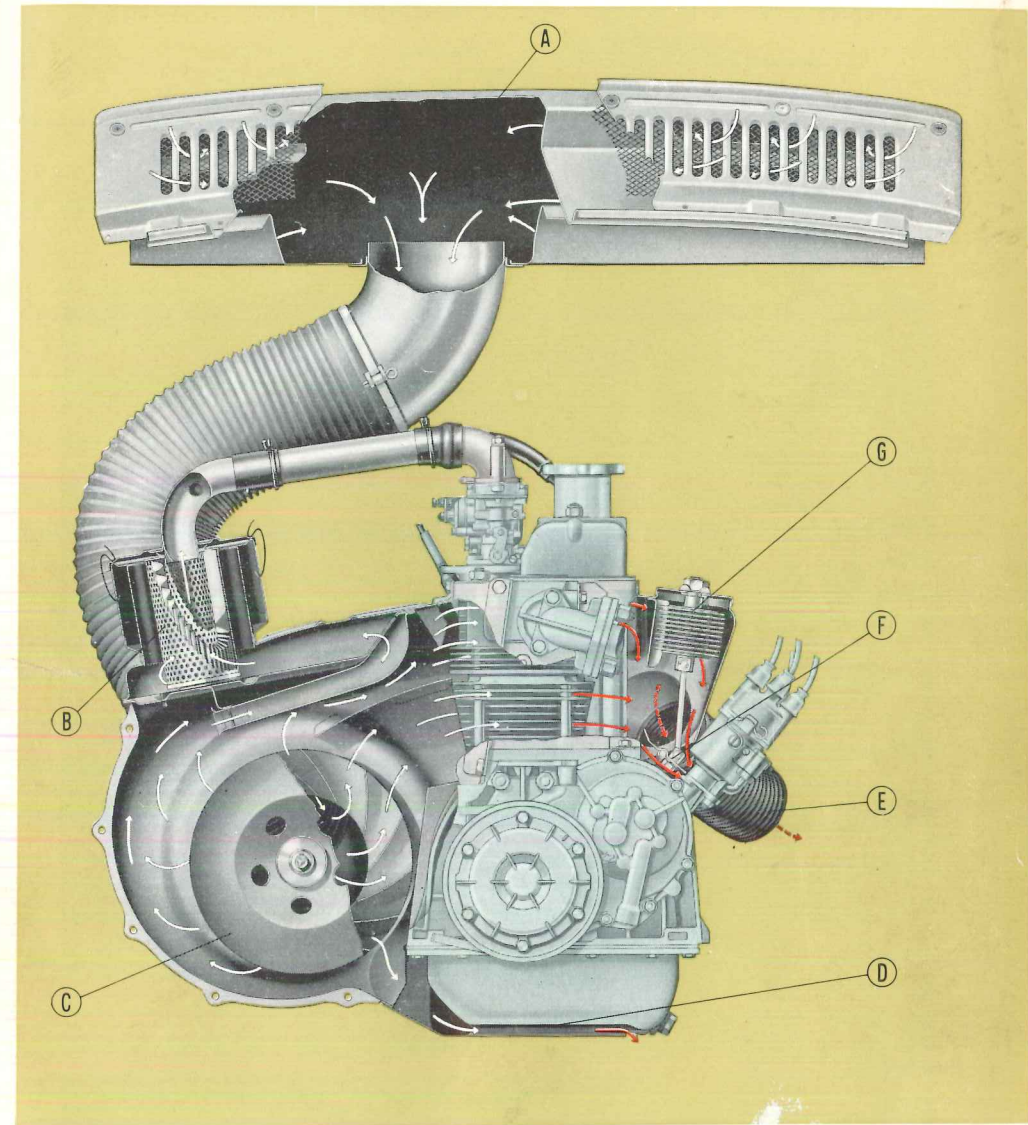
### COOLING

Air circulated by blower.  
 Thermostatically operated air draft shutter:  
 — begins to open at 70°-74° C (158°-165° F)  
 — is fully open at 81°-87° C (178°-188° F).

### IGNITION

Static advance . . . . . 10°  
 Centrifugal advance . . . . . 18°  
 Ignition point gap . . . . . 0.47 to 0.53 mm  
 (.019-.021 in)

Spark plugs { **Marelli CW 225 N**  
**Champion L-85**  
**Bosch W 225 T 1**  
 diameter and pitch (metric) . . . . . 14 x 1.25 mm  
 gap . . . . . 0.60 to 0.70 mm (.024-.028 in)



**Engine cooling air circulation.**

**A.** Air intake - **B.** Air cleaner - **C.** Blower, with cowling - **D.** Passage, sump cooling air - **E.** Conveyor hose, warm air into car - **F.** Shutter, engine cooling air draft, shown in maximum opening position (temperature 81°-87° C — 178°-188° F) - **G.** Thermostat.



## POWER TRAIN

### CLUTCH

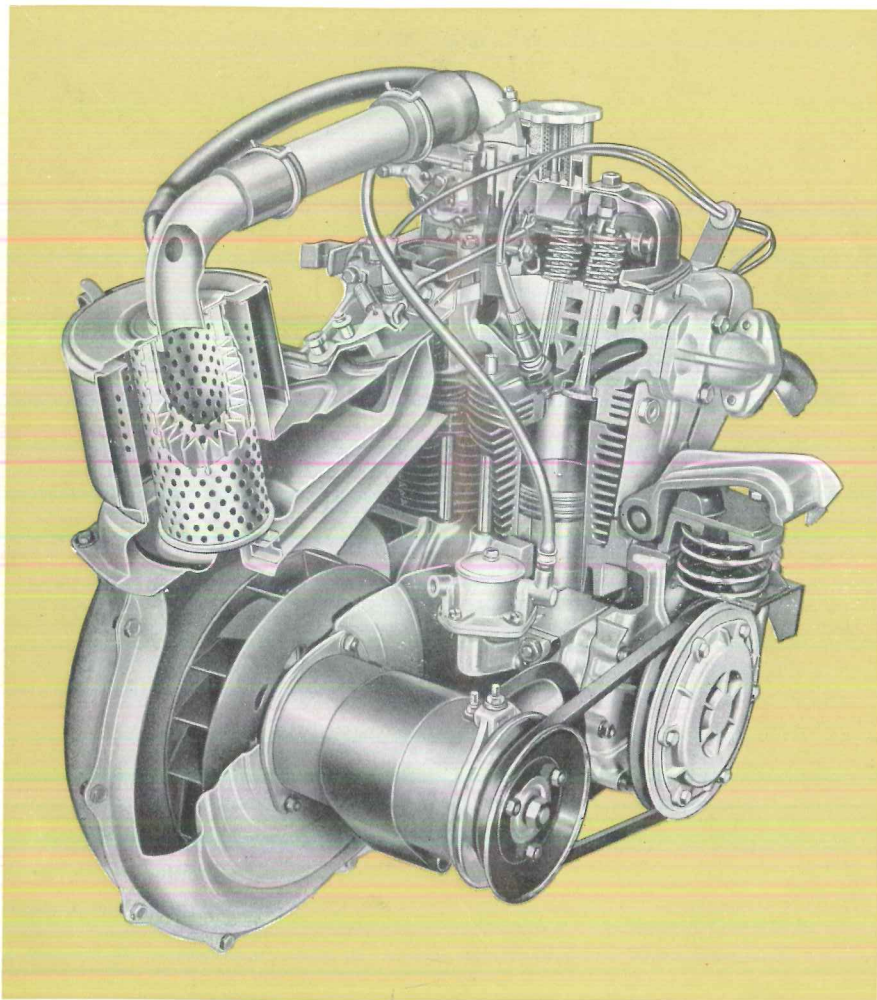
Single plate, dry, with engagement by disc spring.

Pedal free travel: . . . 15-20 mm (.6-.8 in)

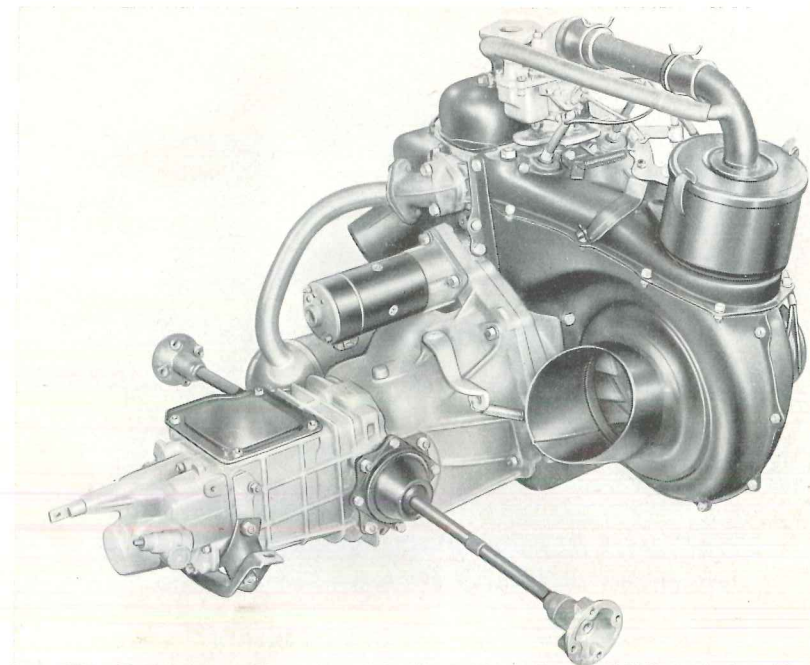
## TRANSMISSION AND DIFFERENTIAL

### Ratios:

1st gear . . . . .	3.700
2nd » . . . . .	2.066
3rd » . . . . .	1.300
4th » . . . . .	0.875
Reverse . . . . .	5.144



Cut-away of engine and blower.



Differential unit and final drive reduction ratio . . . . . 8 to 41  
 Differential and final drive gears in transmission casing.  
 Drive to rear wheels by slip-joint, half-axle swing shafts.

## BRAKES

*Service:* hydraulically-operated, self-centering, expanding-shoe type brakes, on all wheels.

*Parking and emergency:* mechanical, hand controlled, operating on rear wheel shoes.  
 Shoe-to-drum clearance automatic take-up.

## STEERING AND WHEELS

### STEERING

Standard . . . . .	L.H.D.
Optional . . . . .	R.H.D.

Independent track rods to each wheel. Control by worm screw and helical sector: ratio . . . . . 2/26  
 Turning circle diameter 8.60 m (28 ft 3 in.).  
 Front wheel camber, measured at rim (fully laden) : . 5-6 mm (.19-.23 in)  
 Front wheel toe-in, measured at rim (fully laden) 0 to 2 mm (.0 to .08 in)

### WHEELS AND TIRES

Disc wheels, with rims type . . . 3 1/2 x 12"  
 Low pressure tires { bias 125-12 (4 p.r.)  
 radial \* . 125 SR-12

## SUSPENSION

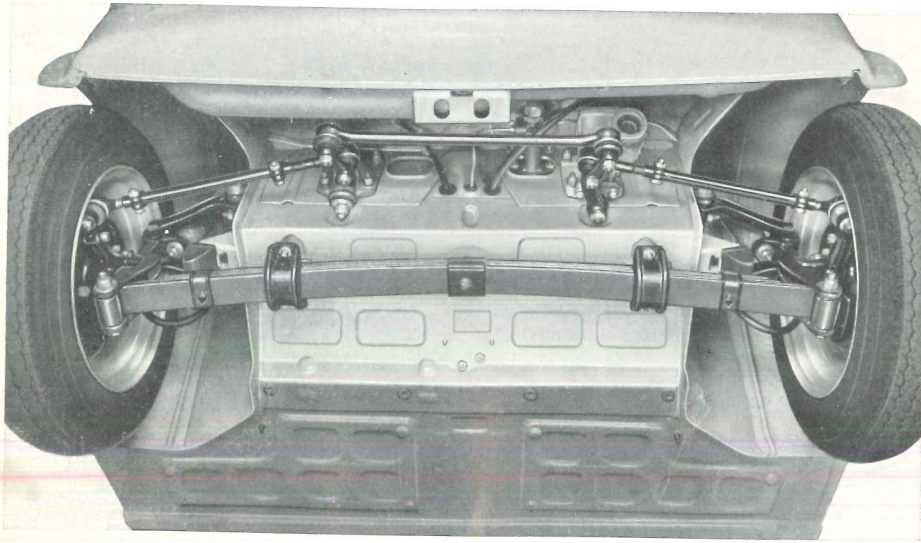
### FRONT SUSPENSION

Independent wheels, with swinging arms and hydraulic shock absorbers.

\* Optional extra.



**Front suspension.**



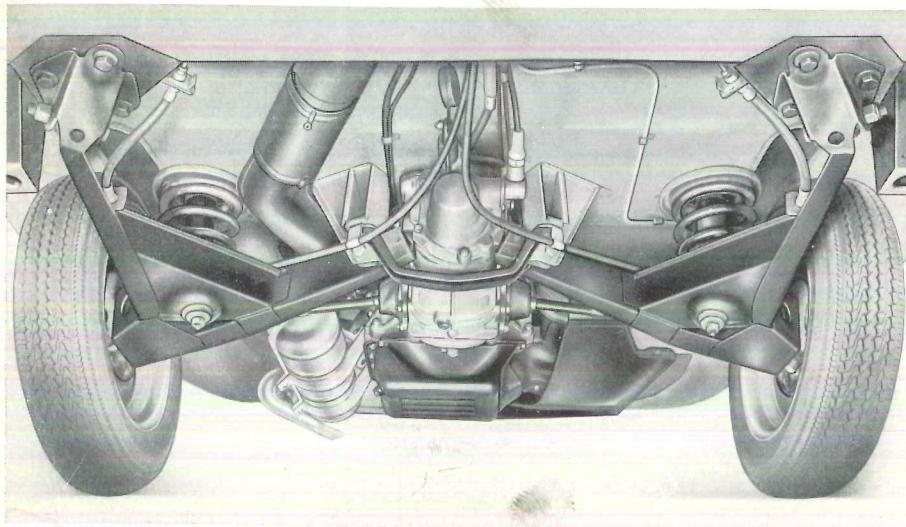
Semielliptic spring: transversally mounted, anchored at center through two resilient pads and at the ends to the kingpin housings.

The spring performs also as stabilizer bar.

**REAR SUSPENSION**

Independent wheels with coil springs and swinging arms.

Hydraulic, telescopic, double-acting shock absorbers.



**Rear suspension.**

**ELECTRIC SYSTEM**

- Tension . . . . . 12 Volts
- BATTERY**
- Capacity at 20-hr discharge rate . . . . . 32 Ah
- GENERATOR (FIAT)**
- Continuous output . . . . . 230 watts
- Peak output . . . . . 320 watts
- Cut-in speed { engine, abt. . . . . 1200 rpm
- (lights out) { car in 4th gear . . . . . 25 km/h (15.5 m.p.h.)
- STARTER**
- FIAT: power . . . . . 0.5 kW
- Direct engagement by freewheel.

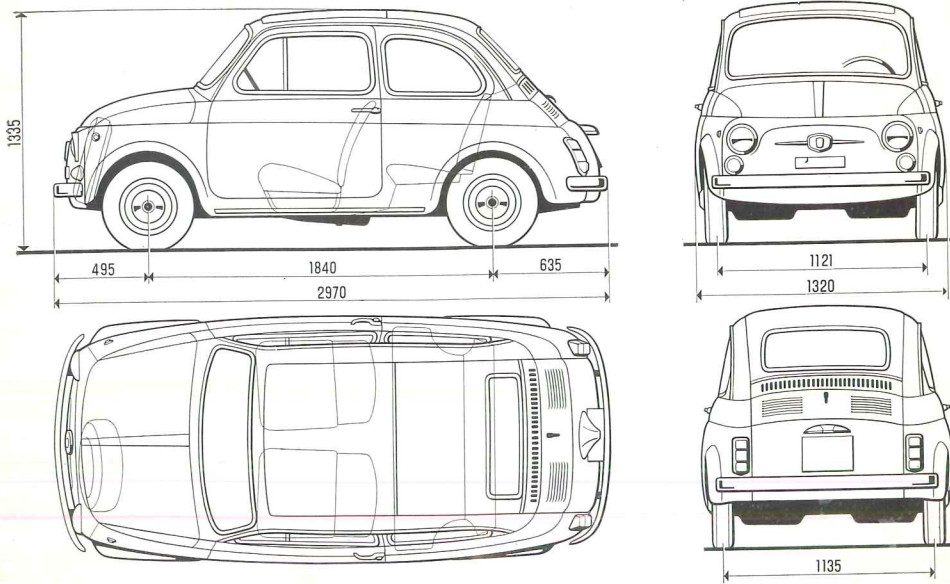
**BULBS**

Location	Type	Wattage (12 Volts)
— Headlamps: high beam . . . . .	spherical, double filament for asymmetric units . . . . .	45
low beam . . . . .		
— Front lamps: direction indicators, parking lights . . . . .	spherical, double filament . . . . .	21
— Tail lamps: stop lights . . . . .		
parking lights . . . . .		5
— Tail lamps: direction indicators . . . . .	spherical . . . . .	21
— Number plate lamp . . . . .	spherical . . . . .	5
— Rear view mirror lamp . . . . .	cylindrical . . . . .	5
— Direction indicator side repeaters . . . . .	tubular . . . . .	3
— Instrument panel light . . . . .		
— High beam indicator . . . . .		
— Generator charge indicator . . . . .		
— Direction indicators pilot light . . . . .		
— Insufficient oil pressure indicator . . . . .		
— Fuel reserve indicator . . . . .		
— Parking lights indicator . . . . .		

**BODY**

- Integral construction.
- Imitation leather sun roof.
- Two front-hinged doors, with front swivelling venti-panes and drop windows; key-operated lock on both doors and internal safety locking device to prevent the accidental opening of doors in case of a crash. Handle to pull door shut from inside.
- Fixed-pane back and rear quarter windows.
- Front compartment with rear hinged lid, housing the spare wheel, battery, fuel tank, brake fluid reservoir, windshield washer bottle, tool box and space for luggage.
- Engine compartment lid, removable for complete access to power plant.
- Front adjustable, forward-tilting bucket seats. Optional: reclinable squabs.
- Rear bench seat, with removable cushion and tiltable back to increase luggage space.
- Utility shelf under instrument panel.
- Rear view mirror with incorporated bulb for courtesy light.
- Two adjustable sun visors.
- Ash tray on dash center.





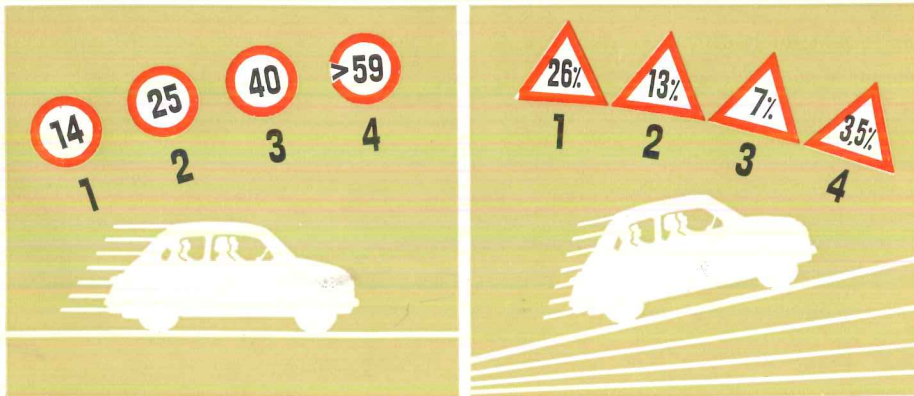
Maximum height is measured with unladen car.

mm . . . . .	495	635	1121	1135	1320	1335	1840	2970
in . . . . .	19.5	25	44.1	44.7	52	52.5	72.4	116.9

### WEIGHTS

Curb weight . . . . .	520 kg (1147 lbs)
Useful load . . . . .	4 passengers plus 40 kg (88 lbs) of luggage
Gross weight . . . . .	840 kg (1852 lbs)
Towing capacity . . . . .	300 kg (662 lbs)

### PERFORMANCES

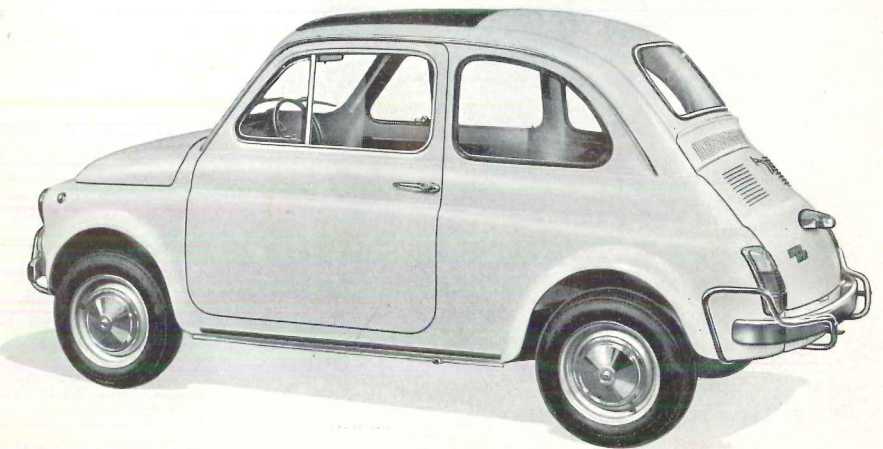


Maximum speeds - m.p.h.

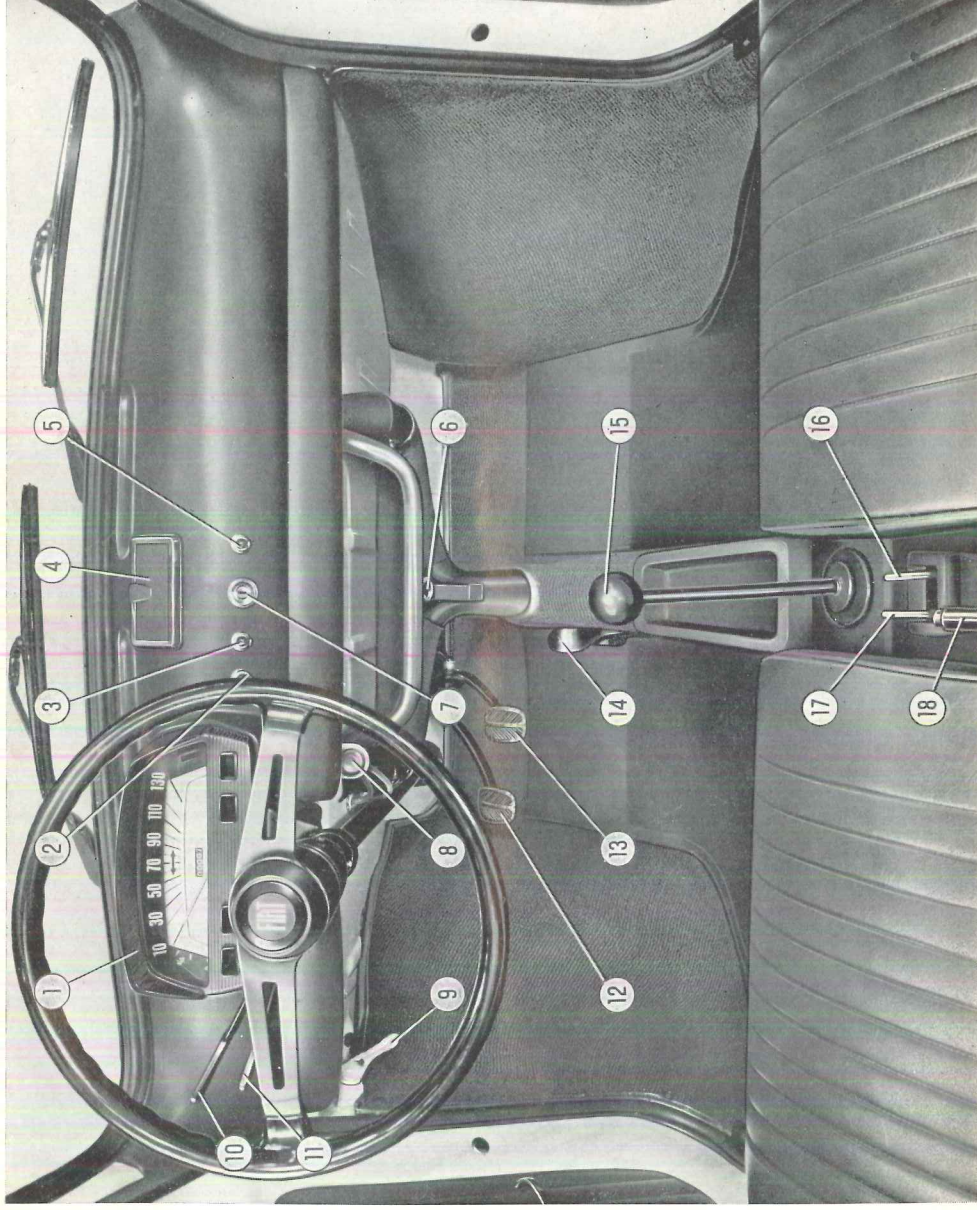
Maximum climbable gradients

## 500 L DE LUXE VERSION

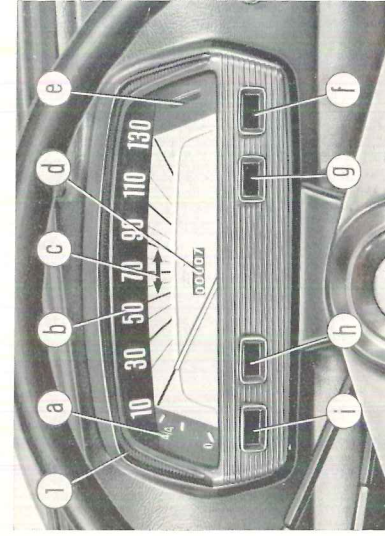
The **500 Model** cars are now offered on request in a **De Luxe** Version, which differs as herein detailed from the Standard Version described and illustrated in the foregoing pages. Type designation, punched on identification plate, is **110 F/L**.







## GAUGES AND CONTROLS



### 1. Instrument cluster (\*), incorporating:

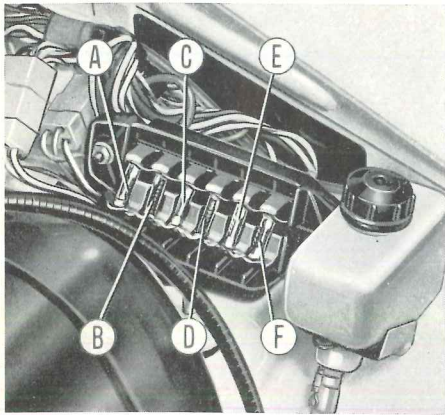
- a. Fuel gauge - b. Speedometer (gauged in km or miles) - c. Direction indicators arrow tell-tale - d. Mileage recorder - e. Insufficient oil pressure indicator - f. High beam indicator - g. Parking lights indicator - h. Generator charge indicator - i. Fuel reserve indicator.

(\* ) *The instrument cluster is factory-sealed: any tampering by unauthorized personnel implies the invalidation of the Warranty.*

- 2. Cluster light switch.
- 3. Outer lighting switch.
- 4. Ash receiver.
- 5. Windshield wiper switch.
- 6. Hand accelerator (throttle).
- 7. Lock switch.
- 8. Windshield washer pump.
- 9. Front compartment lid release control handle.
- 10. Headlamp lighting change-over switch lever.
- 11. Direction indicators control lever.
- 12. Clutch pedal.
- 13. Brake pedal.
- 14. Accelerator pedal.
- 15. Gearshift lever.
- 16. Starter control lever.
- 17. Choke control lever.
- 18. Auxiliary (hand) brake lever.



## ELECTRIC SYSTEM



The electric equipment differs on account of a new configuration instrument cluster which includes a fuel gauge, the direction indicators arrow tell-tale and high beam indicator.

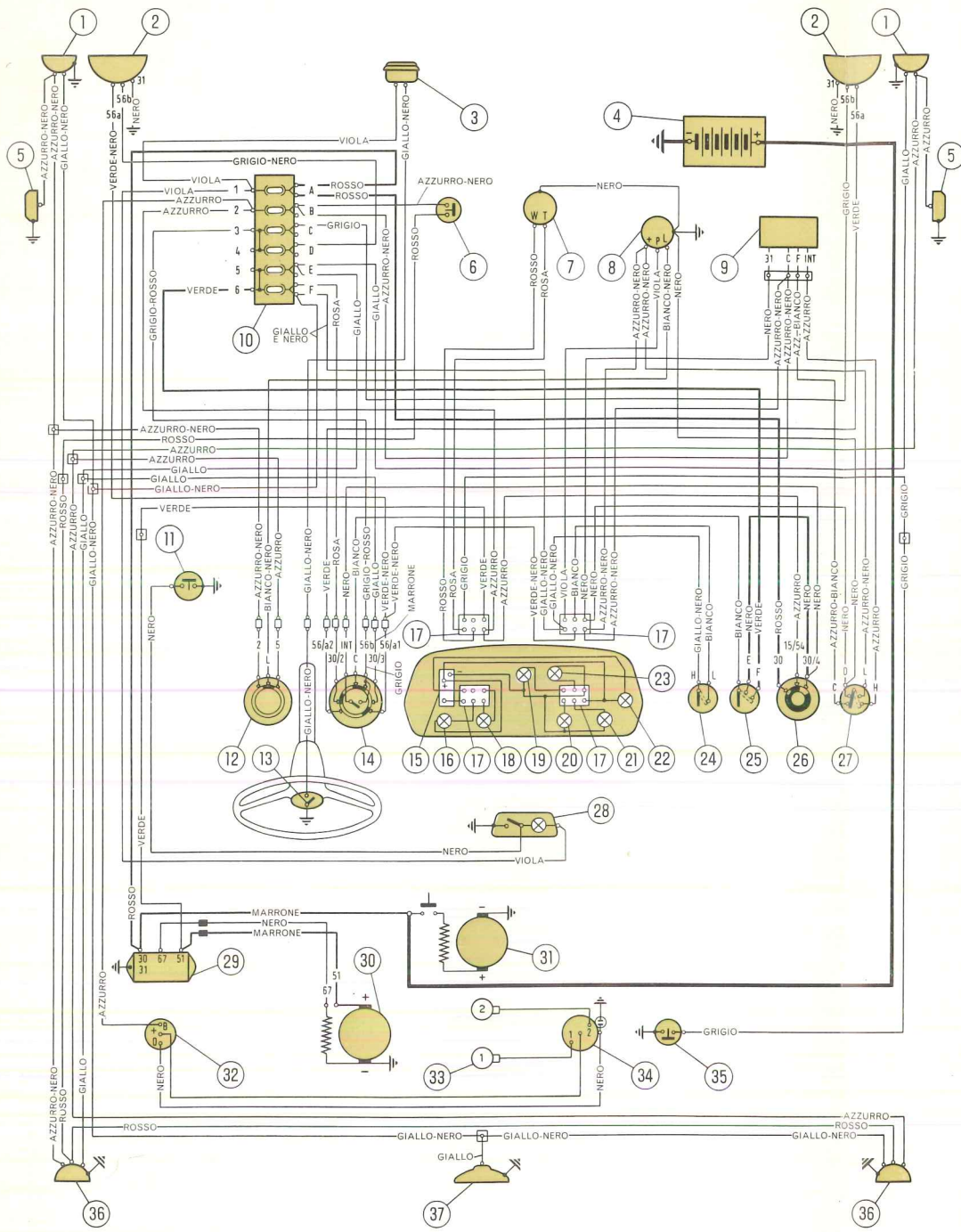
The circuits protected by fuses are:

PROTECTED CIRCUITS	
A/1	<ul style="list-style-type: none"> <li>— Horn.</li> <li>— Lamp in rear view mirror.</li> </ul>
B/2	<ul style="list-style-type: none"> <li>— Direction indicators and arrow tell-tale.</li> <li>— Insufficient oil pressure indicator.</li> <li>— Fuel gauge and reserve indicator.</li> <li>— Windshield wiper.</li> <li>— Stop lights.</li> </ul>
C/3	<ul style="list-style-type: none"> <li>— Right headlamp low beam.</li> </ul>
D/4	<ul style="list-style-type: none"> <li>— Left headlamp low beam.</li> </ul>
E/5	<ul style="list-style-type: none"> <li>— Left headlamp high beam.</li> <li>— High beam indicator.</li> <li>— Front right parking lamp.</li> <li>— Rear left parking light.</li> <li>— Instrument cluster light.</li> </ul>
F/6	<ul style="list-style-type: none"> <li>— Right headlamp high beam.</li> <li>— Front left parking lamp.</li> <li>— Rear right parking light.</li> <li>— Parking lamps indicator.</li> <li>— Number plate lamp.</li> </ul>



ent differs on ac-  
uration instrument  
s a fuel gauge, the  
arrow tell-tale and

d by fuses are:



### WIRING DIAGRAM

1. Front parking and direction indicator lamps.
2. Headlamps (high and low beams).
3. Horn.
4. Battery.
5. Direction indicator side repeaters.
6. Stop lights pressure-operated switch.
7. Fuel gauge sending unit.
8. Flasher (direction indicators).
9. Windshield wiper motor.
10. Fuses.
11. Courtesy light jam switch on door pillar.
12. Direction indicators arrow tell-tale (green).
13. Horn button.
14. High/Low beams change-over switch (controls also headlamp low beam flashes).
15. Fuel gauge.
16. Fuel reserve indicator (red).
17. Electrical connectors.
18. Generator charge indicator (red).
19. Direction indicators arrow tell-tale (green).
20. Parking lights indicator (green).
21. High beam indicator (blue).
22. Insufficient oil pressure indicator (red).
23. Instrument cluster light.
24. Instrument cluster light switch.
25. Outer lighting switch.
26. Lock switch.
27. Windshield wiper switch.
28. Rear view mirror light (courtesy).
29. Generator regulator.
30. Generator.
31. Starter motor.
32. Ignition coil.
33. Spark plugs.
34. Ignition distributor.
35. Insufficient oil pressure indicator sending unit.
36. Rear parking, stop and direction indicator lamps.
37. Number plate lamp.

**Note.** - Mark ■ means that cable is provided with numbered strip or ferrule.

### KEY TO CABLE COLORS

Arancione = <b>Orange</b>	Giallo = <b>Yellow</b>	Rosa = <b>Pink</b>
Azzurro = <b>Light blue</b>	Grigio = <b>Grey</b>	Rosso = <b>Red</b>
Blu = <b>Dark blue</b>	Marrone = <b>Brown</b>	Verde = <b>Green</b>
Bianco = <b>White</b>	Nero = <b>Black</b>	Viola = <b>Violet</b>



## BODYWORK



The differences with respect to the standard version are essentially:

- Addition of overriders to the front and rear bumpers.
- Wheel caps of new shape.
- Bright plastic moldings on roof troughs.
- Bright plastic reveal around windshield and back window.
- New FIAT medallion on front end panel.
- New FIAT 500 L nameplate on tail end.
- Facia completely plastic lined.
- Steering wheel with slotted metal spokes.
- Different shape and location of door inner latch control lever **A**: to open pull the lever; to close grab the rigid map pocket.
- Front seat improved in appearance and **with back adjustable by pulling the lever under the seat** (see page 7).
- New linings and trim on door inner panel and on seats.
- Rigid map pockets **B** on door inner panels.
- Plastic utility tray **C** on tunnel.
- Moquette and rubber floor mats.





# LUBRICANTS AND FLUIDS

FIAT DESIGNATION	INTERNATIONAL DESIGNATION
« VS » <sup>(0)</sup>	<b>Detergent oils of low ash content</b> Type MS - Level MIL-L-2104 B
« Multigrado » <sup>(0)</sup>	
« W 90/M »	<b>SAE 90 EP</b> oil meets MIL-L-2105 B requirements
« Jota 1 »	<b>Lithium-base grease</b> N.L.G.I. No. 1
« MR 2 »	<b>Lithium-base grease</b> N.L.G.I. No. 2
« MR 3 »	<b>Lithium-base grease</b> N.L.G.I. No. 3
« Liquido speciale FIAT etichetta azzurra »	Heavy Duty Fluid for brake and hydraulic control circuits, meeting <b>SAE J 1703</b> requirements.

<sup>(0)</sup> See the « Fill-up Data » Table for grades.

# FILL-UP DATA

Item	Quantity				Refill
	lt.	kg	U.S. Units	G.B. Units	
Fuel tank . . . . .	22	—	5 <sup>4</sup> / <sub>5</sub> Gals.	4 <sup>4</sup> / <sub>5</sub> Gals.	Regular gasoline <b>FIAT engine oil</b> <sup>(3)</sup>
Sump <sup>(1)</sup> . . . . .	2.5	2.25	2 <sup>3</sup> / <sub>5</sub> Qts.	2 <sup>1</sup> / <sub>5</sub> Qts.	
Transmission and differential	1.1	1	2 <sup>1</sup> / <sub>3</sub> Pts.	2 Pts.	} <b>FIAT W 90/M oil</b>
Steering box . . . . .	0.12	0.11	1/4 »	1/5 »	
Hydraulic brake system . .	0.22	0.22	1/2 »	2/3 »	} <b>Liquido speciale FIAT etichetta azzurra</b> or equivalent HD non-mineral grade
Front shock absorbers (each)	0.13	0.12	1/3 »	1/4 »	
Rear shock absorbers (each)	0.11	0.10	1/4 »	1/5 »	} <b>FIAT S. A. I. oil</b>
Windshield washer . . . . .	1	—	1 <sup>1</sup> / <sub>2</sub> »	1 <sup>1</sup> / <sub>3</sub> »	
					Water and « <b>FIAT DP 1 liquid</b> <sup>(2)</sup> » solution

<sup>(1)</sup> Total capacity of sump, lines, oil filter and crankshaft is 2.4 kg (2<sup>1</sup>/<sub>5</sub> U.S. Qts - 2<sup>2</sup>/<sub>5</sub> G.B. Qts). The amount indicated in the table is the requirement for periodical oil changes.

<sup>(2)</sup> In summer use 30 cc « **FIAT DP1 liquid** » per liter of water: in winter down to -10° C (14° F) use a 50-50 mixture. For temperatures below -10° C (14° F) refill with « **FIAT DP1 liquid** » only and no water.

<sup>(3)</sup> See following table for grades:

Outdoor temperature		FIAT Single-grade oil	FIAT Multigrade oil
		Detergent oils of low ash content Type MS - Level MIL-L-2104 B <sup>(*)</sup>	
Minimum below -15° C (5° F)		<b>VS 10 W (SAE 10 W)</b>	—
Min. between -15° and 0° C (5° to 32° F)		<b>VS 20 W (SAE 20 W)</b>	<b>10 W - 30</b>
Min. above 0° C (32° F)	Max. below 35° C (95° F)	<b>VS 30 (SAE 30)</b>	<b>20 W - 40</b>
	Max. above 35° C (95° F)	<b>VS 40 (SAE 40)</b>	

<sup>(\*)</sup> Never top up with oils of other Make or grade. The properties of the recommended grades are described in the « **Safe Motoring Hints** » booklet.

## TIRE PRESSURES:

Bias { with reduced load . . . . .  
 { fully laden . . . . .  
 Radial . . . . .

FRONT		REAR	
kg/cm <sup>2</sup>	p.s.i.	kg/cm <sup>2</sup>	p.s.i.
1.30	18.5	1.60	23
1.30	18.5	1.90	27
1.10	15.6	1.60	23



The descriptions and illustrations appearing in this book are not binding. FIAT, therefore, reserves the right, while retaining the basic features of the Model herein described and illustrated, to make at any time, and without necessarily bringing this book up to-date, any alteration to units, parts or accessories deemed expedient for improvement or for any manufacturing or commercial reason.

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