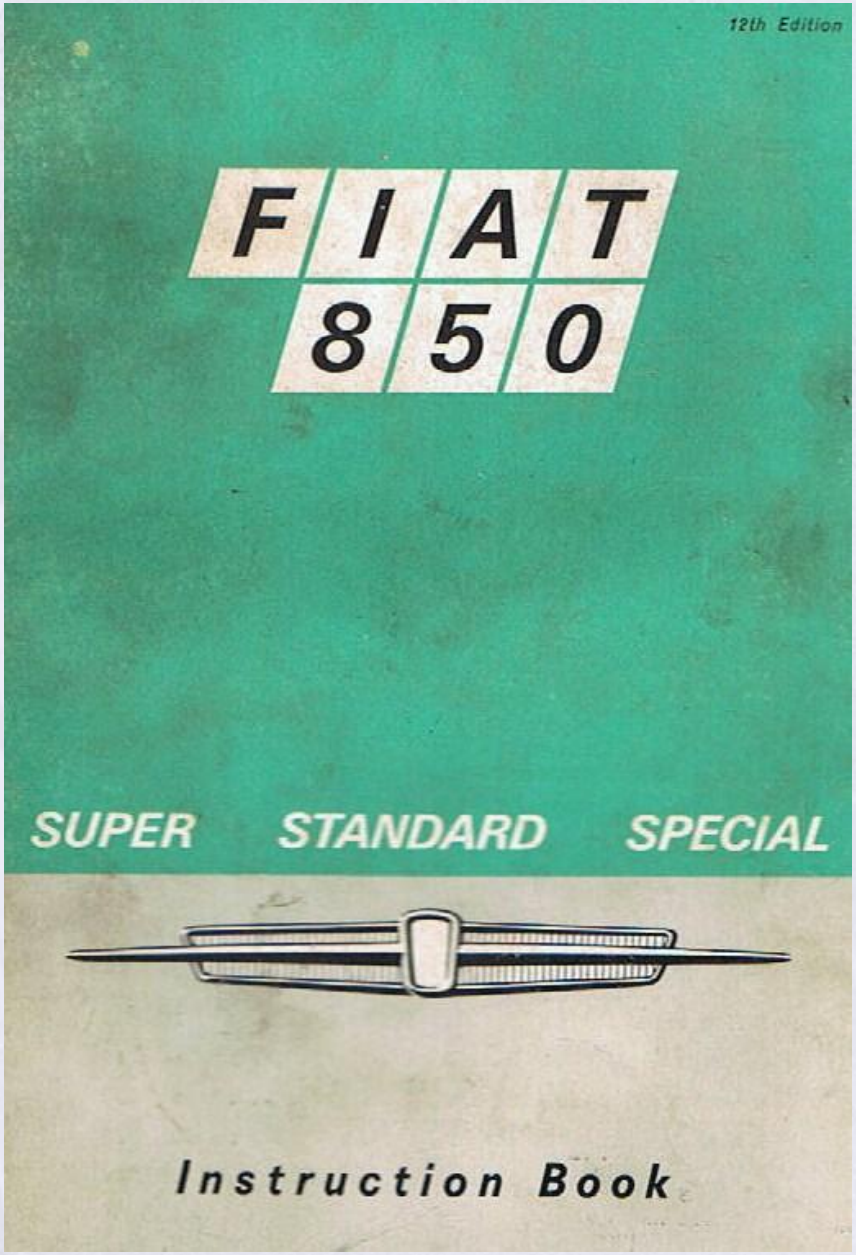
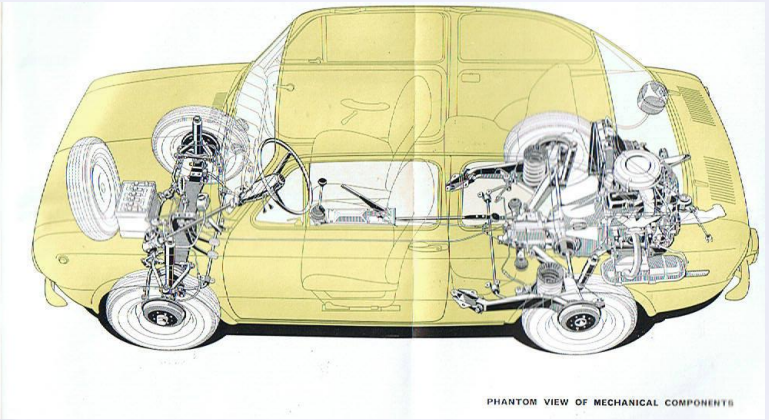


ENGELSK VERSION MED DANSK INDHOLDSFORTEGNELSE



2.UDGAVE MARTS 2012

INDHOLDSFORTEGNELSE KLIK HER

INDHOLDSFORTEGNELSE
KLIK PÅ DET ØNSKEDE EMNE

SERVICE

OWNER SERVICE CERTIFICATE

All the service operations under 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 upon completion of the **first 1000-1300 miles** and **2500-3500 miles.**
It is in 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

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 4):

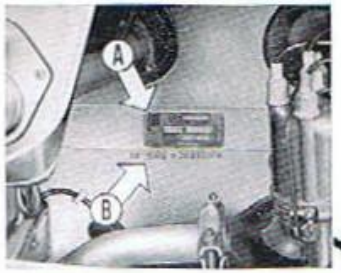
- **Car model.**
- **Chassis type and number.**
- **Engine type and number.**
- **Number for Spares.**
- **Part number** of spare(s) ordered (see the Spare Parts Catalog).

SERVICE STATIONS

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 properly, 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.

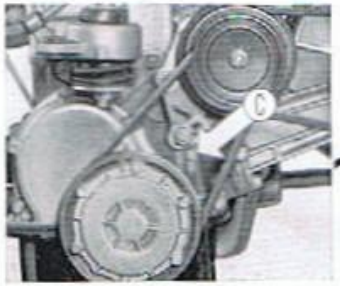
WHEN YOUR CAR NEEDS SERVICE LOOK FOR THIS SIGN

IDENTIFICATION DATA

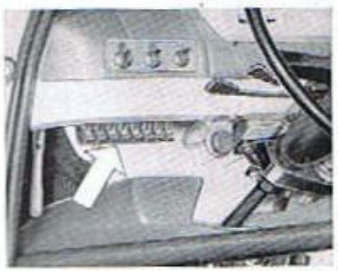


◀ **A - Identification plate :** Qualification number, chassis type and number, engine type, number for spares.

B - Chassis type (100 G) and number.



◀ **C - Engine type (100 G.002) and number.**



◀ **Fuse holder,** arranged under instrument panel, to the left of steering post (see page 39).

KEYS

Each vehicle is provided with two keys in duplicate: one for ignition lock switch and one for the doors. To obtain a new key from FIAT's Sales Organization quote the code number stamped on each key.

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 miles 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.

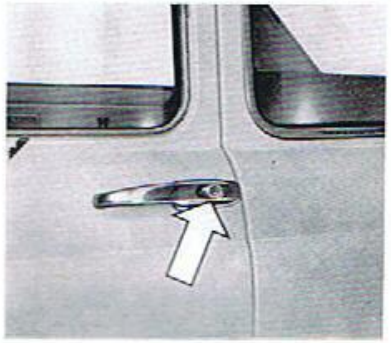
— Change your road speed occasionally, especially on long trips. Hence, avoid long drives at constant speed, be it high or low.

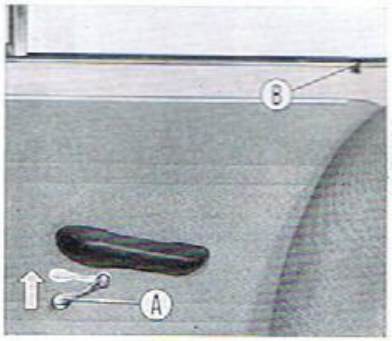
— Downshift whenever necessary to cope with driving conditions on route: you will avoid engine laboring at excessively low rpm.

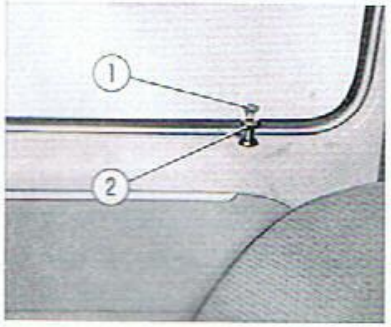
— Avoid, if possible, severe stops at sustained speeds during the first few hundred miles: brakes will « set » properly and improve their life and effectiveness.

— 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.







1 — « Unlocked » position - 2 — « Locked » position.

DOORS

Both doors are provided with key-controlled button release lock in handle so that stepping out and locking the car on the curb side is also possible. To lock or unlock, insert the key, rotate it 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, move knob to position **2.**

Never depress knob B when the door is open as not only will the door remain unlocked when closed, 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 powder into the cylinder keyhole.

In extremely cold weather insertion of the key in the frozen lock cylinder might prove difficult: warm up the key (a lighted match will do).

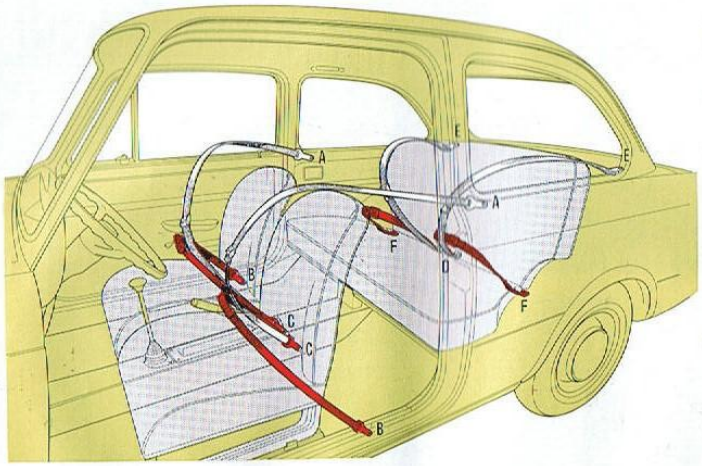
When one of the doors is opened, the courtesy light in rear view mirror is automatically turned on.

SEATS

Front seats position on floor can be adjusted after moving the control lever rightwards.

To facilitate access to rear compartment front seats are tiltable.

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.



Front seats.

A. Anchor points on side panels for diagonal belts.

B. Outboard anchor points on floor for lap belts.

C. Anchor points on tunnel sides for diagonal and lap belts.

Rear seat.

D. Anchor points on seat base cross member for diagonal and lap belts.

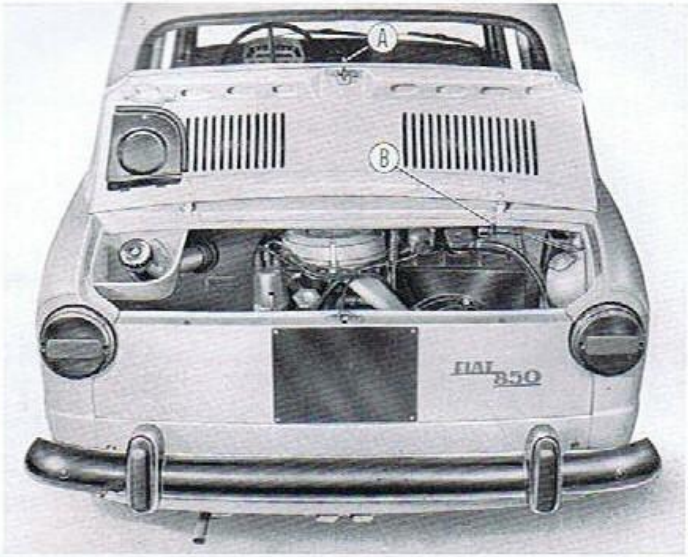
E. Anchor points on the horizontal panel behind seat for diagonal belts.

F. Anchor points on floor rear cross-member for lap belts.

SAFETY BELT ANCHORAGES

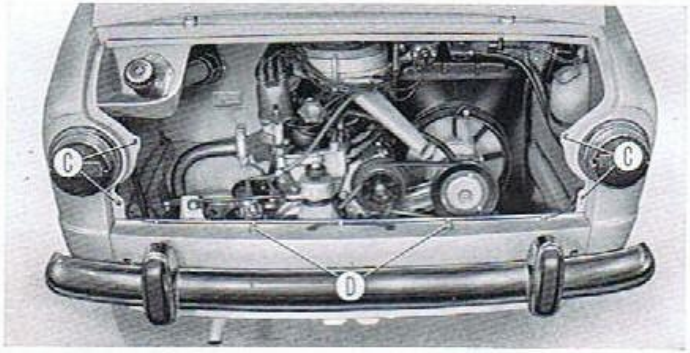
The necessary arrangements are provided for the application of safety belts for the front and rear seat occupants. Belt anchoring holes in tunnel and floor are blanked with rubber plugs and covered with matting; holes in side panels are fitted with trim plugs.

Note - Each anchoring consists of a single hole threaded to 7/16" - 20 UNF - 2 B.



ENGINE COMPARTMENT LID

To open, lift catch **A** and pull up the lid. With lighting circuit energized lamp **B** automatically turns on. For major service operations, the rear end panel may be removed by unscrewing the inner bolts **C** and slackening nuts **D**.

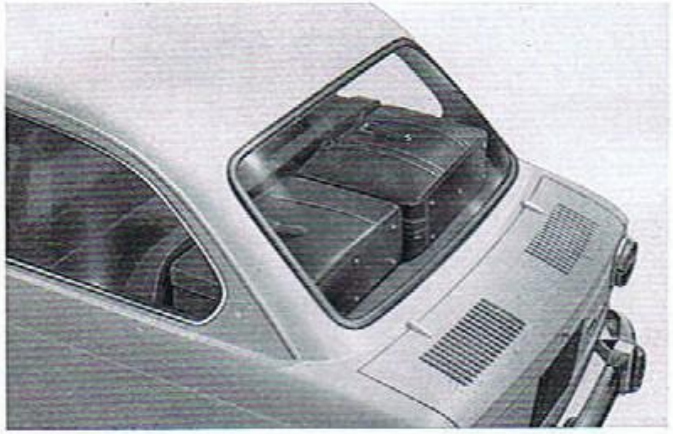


LUGGAGE ACCOMMODATION

Ample luggage space in front compartment whose lid is released by pulling lever **9**, page 12. To close, **lower and press down the lid, with hand on latch, as shown.**

Additional luggage shelf provided behind rear seat: for increased space, tilt the back down over cushion.

Front luggage compartment.



Rear luggage shelf.

GAUGES AND CONTROLS

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

   a) **Fuel gauge.**

   b) **Speedometer:**
   Red marks on dial indicate maximum speed limits for the first 3 gears.

   c) **Direction indicators arrow tell-tale** (green): flashes when lever **11** is moved down or up.

   d) **Mileage recorder** (totalizer).

   e) **Excessive engine coolant temperature indicator** (red): lights up when engine overheats.

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

   g) **Parking lights indicator** (green).

   h) **Generator charge indicator** (red): lights up when ignition is turned on and goes out when generator reaches cutting-in speed [engine speed over 915 rpm; car at 20 km/h (12 1/2 miles) in 4th gear].

   i) **Insufficient oil pressure indicator** (red): lights up when oil pressure is inadequate for good engine lubrication. When engine is hot and rpm low, the indicator may turn ON even if everything is normal.

   l) **Fuel reserve indicator** (red): lights up when only 4 to 5.5 liters (1-1 1/2 U.S. or .9-1.2 G.B. Gals) of fuel remain in tank.

2. **Outer lighting switch:** turns ON the parking lights, the number plate lights and energizes the circuits of the switch controlled by lever **10** and of the cluster light.

3. **Instrument cluster light switch:** operative only if switch **2** is ON.

4. **Windshield wiper switch:** with automatic parking of blades.

5. **Horn button.**

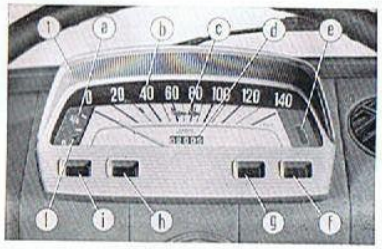
6. **Adjustable outlets for air admission into car:** see page 16 for use.

7. **Rear view mirror with incorporated light and switch.**

8. **Ash tray:** to open ash tray swing out the lid. For periodical emptying take off the tray by exerting a slight pressure on the spring plate.
   Two other ash trays are arranged below the windows on either side of rear seat: removing and cleaning is the same as described above.

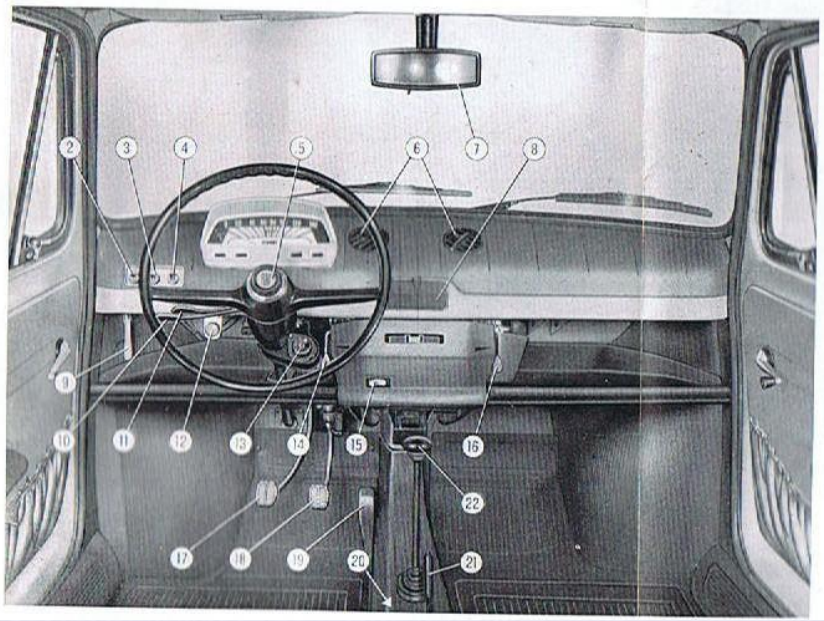
9. **Front compartment lid release lever.**

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



GAUGES AND CONTROLS
L. H. D. Cars

1. Instrument cluster incorporating: a. Fuel gauge - b. Speedometer - c. Direction indicators arrow tell-tale - d. Mileage totalizer - e. Excessive engine coolant temperature indicator - f. High beam indicator - g. Parking lights indicator - h. Generator charge indicator - i. Insufficient oil pressure indicator - l. Fuel reserve indicator.



10. **High Low beams change-over switch lever** (operative with switch 2 turned on):

    I: front and rear parking lamps number plate lights;

    II: headlamp low beams, number plate lights, front and rear parking lamps;

    III: headlamp high beams, front and rear parking lamps, number plate lights.

    By tripping the lever upwards flashing of headlamps is obtained even with switch 2 OFF (daylight signals): the beams stay on as long as the lever is held up.

11. **Direction indicators control lever:**

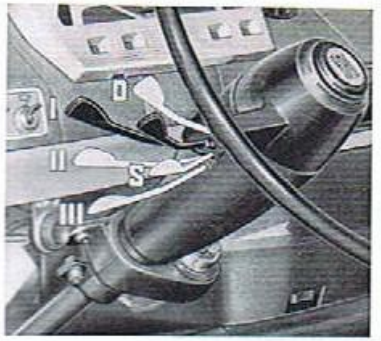
    D = right turn.
    S = left turn.

    The lever returns automatically to OFF position when steering wheel is back to straightahead drive position. This cancellation is also possible manually.

12. **Windshield washer pump control:** to wash the windshield depress several times the rubber bulb, at the same time turning on the windshield wiper switch 4.

13. **Lock switch:** controls ignition, starting and services (*) (**), see page 14. Optional extra equipment: lock switch incorporating a steering post anti-theft lock (see page 14).

14. **Air intake control lever:** see page 16 for its use.



15. **Electrofan switch:** see page 16 for its use.

16. **Heater radiator water cock lever:** see page 16 for its use.

17. **Clutch pedal.**

18. **Service brake pedal.**

19. **Accelerator pedal.**

20. **Choke knob:** see page 14.

21. **Hand brake lever:** see page 15.

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

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

(**) With key in positions **1** or **3** the following circuits are energized: parking lights and relevant indicator; headlamp high beams (and relevant indicator), low beams and flashes; number plate lights; engine compartment light; instrument cluster light.

With key in position **1** (page 14) also the following circuits are energized:

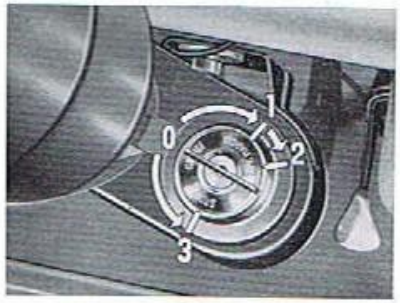
fuel level gauge and reserve indicator; generator charge indicator; insufficient oil pressure indicator; excessive engine coolant temperature indicator (RHD = heat gauge); direction indicators and arrow tell-tale; rear stop lights; windshield wiper; electrofan motor.

NÆSTE SIDE FORRIGE SIDE TILBAGE TIL INDHOLDSFORTEGNELSE

STARTING THE ENGINE

Standard lock switch (*).

0 – All circuits OFF (permits withdrawal of key).
1 – Engine ignition and services energized (**).
2 – Engine starting.
3 – Parking lights ON, with lever **10** (page 13) in position **I** and switch **2** (page 12) ON (permits withdrawal of key) (**).



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

0 – All OFF («**Garage**», anti-theft device not engaged; permits withdrawal of key).
1 – Engine ignition and services energized (**) (**Marcia** = Run).
2 – Engine starting (**Avv.** = Start).
3 – Steering post lock (**Stop** = anti-theft device in; permits withdrawal of key) parking lights ON (**).

Note - To facilitate the engagement of steering post lock, move slightly the steering wheel while rotating the key.

(*) (**) See notes on page 13.

Cold starts

Set the controls as follows:

— Gearshift lever in neutral (page 15).
— Choke knob (**A**, page 15) pulled fully out.
— Insert and turn lock switch key clockwise to the stop, i.e., position **2**, and keep it there until engine is started up. Then, release hold and key will snap back to position **1**.
— Once engine has started, push choke knob home **gradually** to ensure a smooth running of engine during warm up.

Do not press accelerator pedal until engine is well started.

Avoid sudden accelerations when engine is cold.

Hot starts

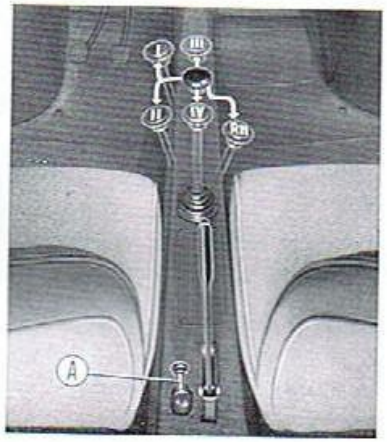
When engine is warm, start without disturbing the choke knob.

In case engine is **very hot,** it may be necessary to **fully depress** accelerator pedal which shall be released slowly as soon as engine fires.

Do not pump the accelerator, as each pedal stroke actuates the accelerating pump which, by providing an excessively rich mixture, would make engine starting difficult.

STARTING THE CAR

— Depress clutch pedal fully.
— Engage 1st gear.
— Release hand brake (thumb-in the button on lever grip and push down).
— Release clutch pedal gradually and at the same time accelerate slowly.
— Next, shift up to the higher gears as required.



ON THE ROAD

— **Never exceed** (even on downgrades) the speed limits indicated for the first three gears by red marks on speedometer dial and the maximum recommended top speed.
— During regular engine operation, **all warning signals (red indicators)** in instrument cluster **must be OFF.** If any of these indicators lights up, investigate and remedy accordingly.
— Occasionally, check that everything is under control by glancing at gauges and indicators on panel.

PARKING

When the car must be left unattended on a slope apply the auxiliary brake and engage either **the 1st gear** or reverse depending on whether the car is headed uphill or downhill. At night, in dark areas, set lock switch key in position **3** (page 14) — i.e., parking and number plate lights ON.

VENTILATION AND HEATING

Car ventilation and heating may be regulated at will, according to seasonal requirements.

Summer ventilation (see figure on page 17).

Air may be admitted into car by suitably setting the swivelling ventipanes (to open the ventipane depress the safety button and turn the lever), winding down the window drop panes, pulling air intake control lever **A** (blue) and opening shutters **D** and **E**.

At low road speeds the amount of this air may be increased by switch **B** which turns on the electrofan.

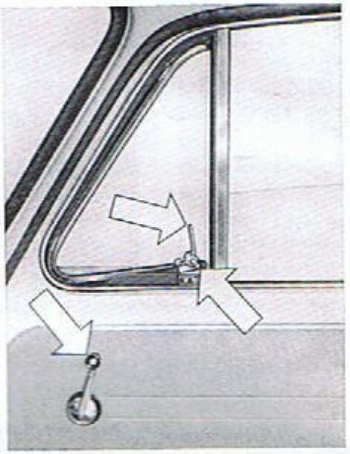
This switch is energized only when ignition is ON (lock switch in position **1**).

To direct the flow of air onto passengers, besides pulling lever **A** close shutters **D** and **E**, then suitably position outlets **F**.

Midseason ventilation (see figure on page 17).

During this period, to demist windshield simply let in fresh air by pulling lever **A**.

To convey air exclusively against the windshield, close shutters **D** and **E** and orient adjustable outlets **F** so that their central raised rib lines up with reference dots **G** on facia.

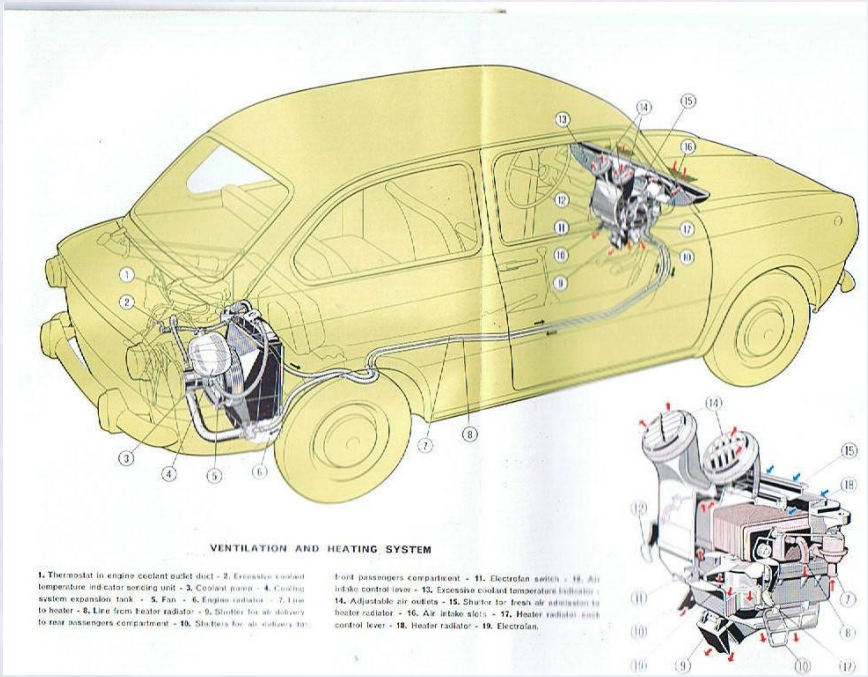


Should it be desired to admit slightly warmed air, pull partially heater radiator cock lever **C**.

Winter heating (see figure on page 17).

For passenger compartment heating, and for windshield demisting and defrosting:

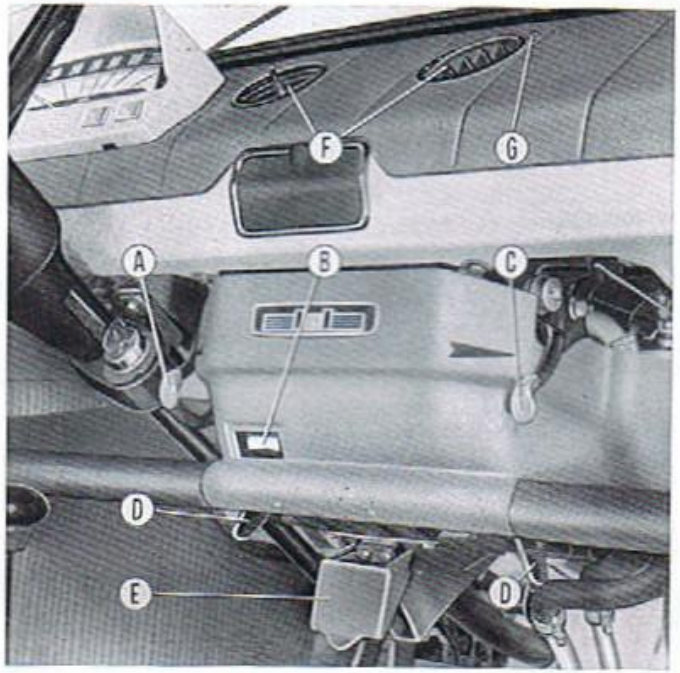
- Pull air intake control lever **A**.
- Pull heater radiator cock control lever **C** (red).
- Start electrofan, if necessary, by switch **B**.



VENTILATION AND HEATING SYSTEM

1. Thermostat in engine coolant outlet duct - 2. Excessive coolant temperature indicator sensing unit - 3. Coolant pump - 4. Cooling system expansion tank - 5. Fan - 6. Engine radiator - 7. Line to heater - 8. Line from heater radiator - 9. Shutter for air delivery to rear passengers compartment - 10. Shutters for air delivery to front passengers compartment - 11. Electrofan switch - 12. Air intake control lever - 13. Excessive coolant temperature indicator - 14. Adjustable air outlets - 15. Shutter for fresh air admission to heater radiator - 16. Air intake slots - 17. Heater radiator cock control lever - 18. Heater radiator - 19. Electrofan.

NÆSTE SIDE FORRIGE SIDE TILBAGE TIL INDHOLDSFORTEGNELSE



Next, proceed as follows:

a) Set adjustable outlets **F** so as to direct the flow of air against the windshield.

b) Open shutters **D** for front passengers compartment heating.

c) Open shutter **E** if also rear passengers compartment heating is desired.

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

Note. - In case heating is insufficient, have the thermostat in engine coolant outlet duct inspected for faulty operation.

CHANGING THE WHEELS

To do this job properly, proceed as follows:

a) Place the car possibly on level ground and lock rear wheels by the hand brake.

b) Remove the wheel cap and using the speed handle slacken about one turn the four wheel fixing screws.

c) Place jack nub in bracket under body floor, then jack up until the wheel to be removed clears the ground.

d) Undo and remove the four fixing screws. Pull off wheel.

e) Fit spare wheel (see figure on page 11). The wheel location dowel on brake drum must fit into one of the location holes provided in wheel disc.

f) Insert wheel fixing screws and tighten uniformly in criss-cross sequence.

g) Lower car and disinsert jack nub from bracket under floor.

h) Fully tighten the wheel fixing screws and refit the wheel cap.

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 special brackets, as shown.
At rear a wooden block at least 3 cm (1 1/4") thick must **always** be interposed between jack head and bracket.
If car needs towing, the rope must be attached exclusively on the front central jack bracket (see inset).

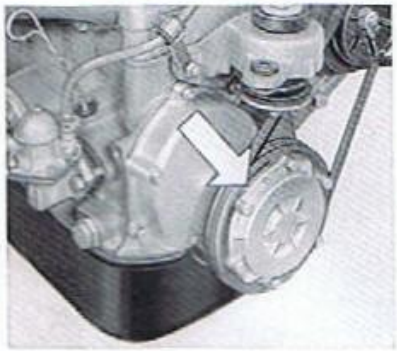
CONSULTING THE CHARTS

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 FIAT SERVICE

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



Sump

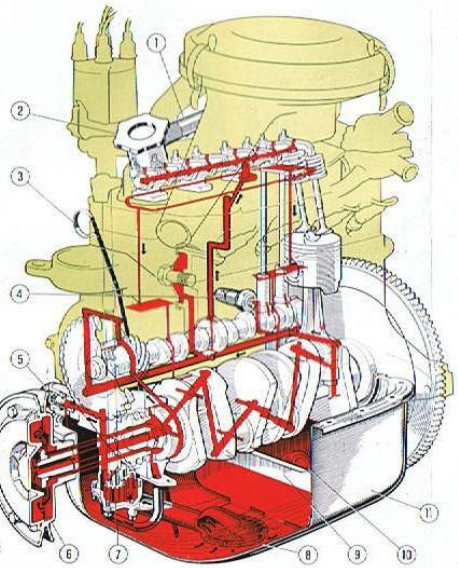
Every 500 km (300 miles): with engine cold, check oil level which must result between the **Min** and **Max** marks on indicator rod and top up if required.

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 within six months (whichever occurs first): replace oil with engine **well warmed up.**

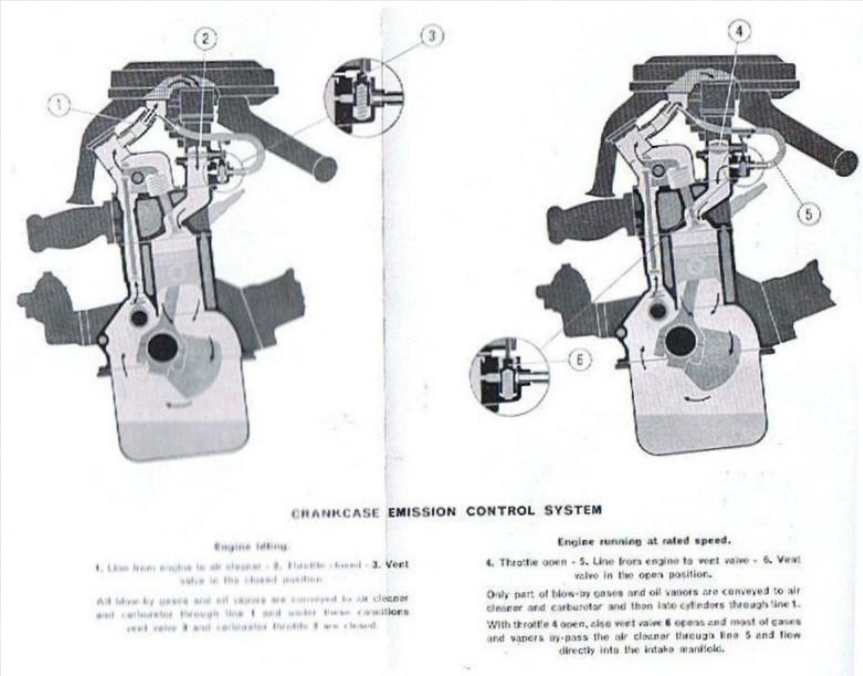
When engine is new, replace the oil after the first 1,000-1,300 miles and 2,500-3,500 miles — operations covered by Coupons **A** and **B** of the **Service Certificate.**

Oil replacements should of course be performed also in relation to the oil grade used (Single-grade or Multigrade) and outdoor temperature as shown in note (¹) of the Fill-up data Table.



ENGINE LUBRICATION DIAGRAM

1. Crankcase emission control recirculation line to air cleaner.
2. Oil filler cap.
3. Oil level indicator rod.
4. Insufficient oil pressure indicator sending unit.
5. Oil pressure relief valve.
6. Centrifugal oil filter.
7. Oil gear pump.
8. Oil pump suction filter.
9. Baffle plate.
10. Oil sump drain plug.
11. Oil sump.



CRANKCASE EMISSION CONTROL SYSTEM

Engine idling.

1. Line from engine to air cleaner - 2. Throttle closed - 3. Vent valve in the closed position.

All blow-by gases and oil vapors are conveyed to air cleaner and carburetor through line 1 and under these conditions vent valve 3 and carburetor throttle 2 are closed.

Engine running at rated speed.

4. Throttle open - 5. Line from engine to vent valve - 6. Vent valve in the open position.

Only part of blow-by gases and oil vapors are conveyed to air cleaner and carburetor and then into cylinders through line 1.

With throttle 4 open, also vent valve 6 opens and most of gases and vapors by-pass the air cleaner through line 5 and flow directly into the intake manifold.

Centrifugal oil filter

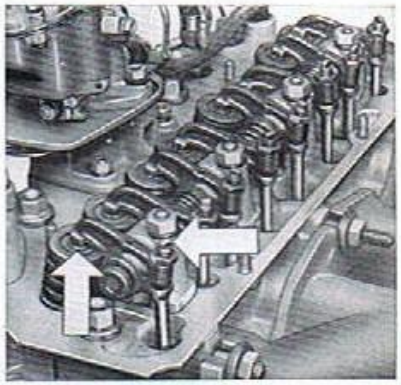
Clean the filter **at least every 50,000 km (30,000 miles) especially in cold climates and under heavy duty service.**

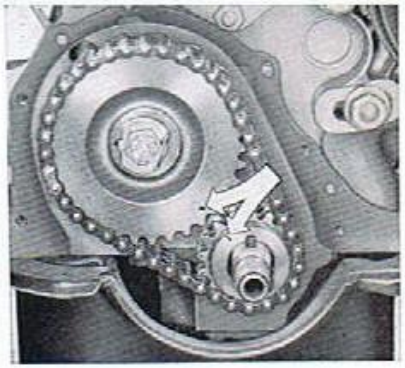
VALVE GEAR

Valve tappet clearance

Every 10,000 km (6,000 miles) or whenever tappet operation becomes noisy: have the valve tappet clearance checked at a FIAT Service Station; specified clearance, **with cold engine**, is 0.15 mm (.006 in.) both for intake and exhaust valves.

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





Valve timing

With reference marks lined up as shown timing is correct.

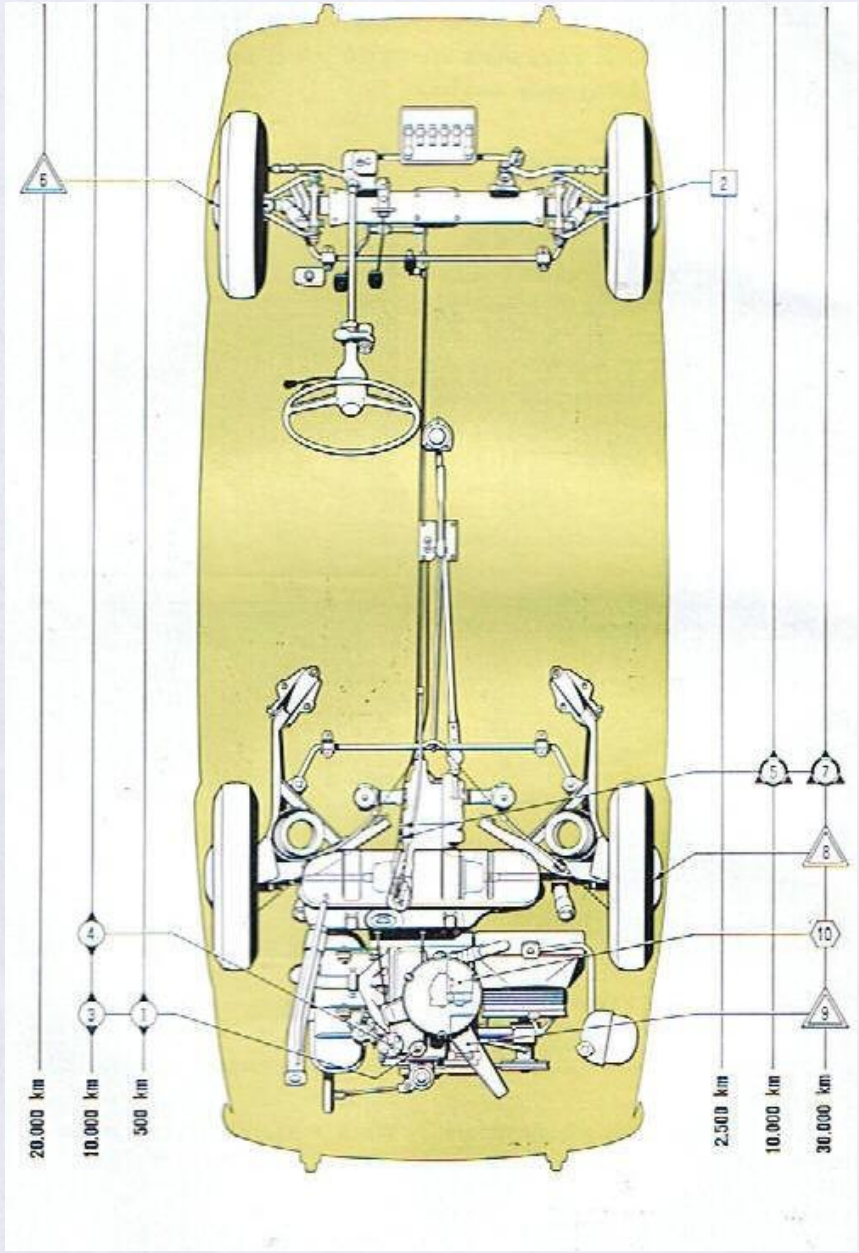
Timing checks, if necessary, should be performed by a Service Station.

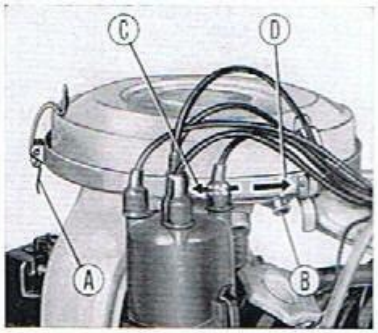
FUEL SYSTEM

Air cleaner

Every 10,000 km (6,000 miles): remove upper cover by lifting the three spring fasteners **A**, page 26, and replace the cartridge.

When dusty conditions prevail, replace the cartridge more often.





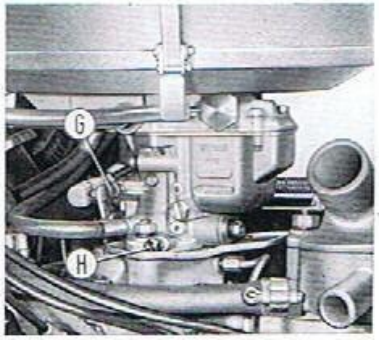
Climatic control

The cleaner has two separate air intakes, one for cooler air admission in summer and one for heated air in winter, which are selected by knob **B**.

Summer: shift knob in the direction of blue arrow **C** for admission of cooler air.

Winter: shift knob in the direction of red arrow **D** for admission of heated air.

Weber or Holley carburetor ▼



Carburetor

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

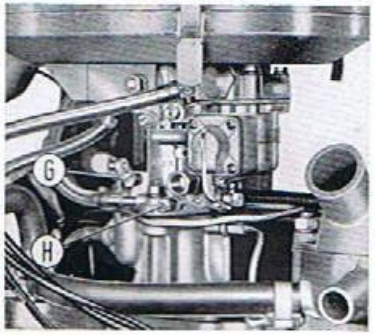
Every 10,000 km (6,000 miles): clean carburetor jets and inner strainer. This cleaning should be performed exclusively by using an air blast.

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 FIAT Service Station when carburetor develops major troubles.

Solex carburetor ▼



Crankcase emission control system

Every 20,000 km (12,000 miles): clean and flush the recirculation circuit, the carburetor complete with vent valve, and flame trap. This operation must be carried out by personnel of a FIAT Service Station using the special mixture for this purpose.

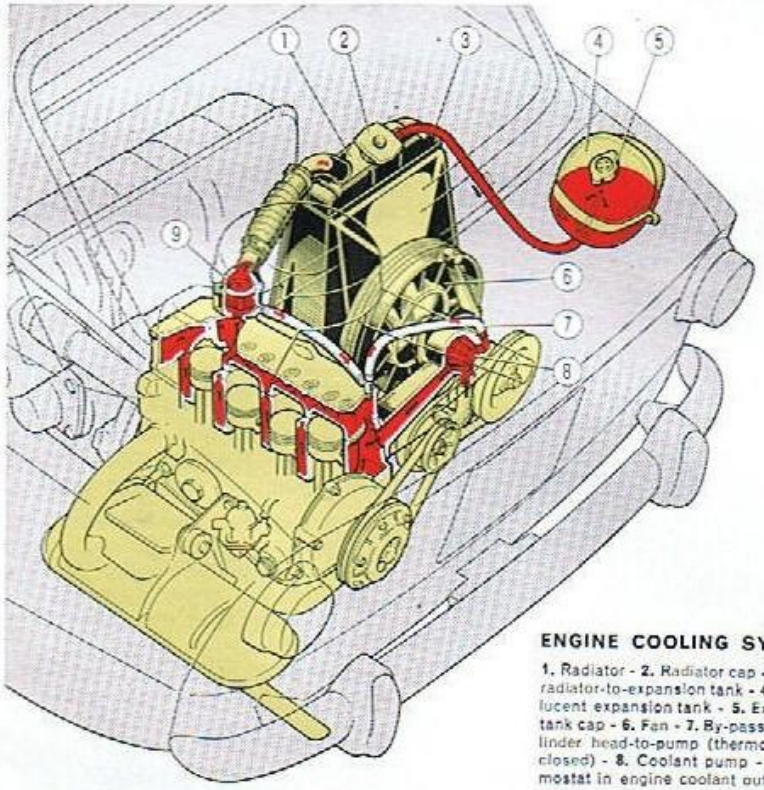
ENGINE COOLING SYSTEM

Permanent coolant circuit

Occasionally check the level of the permanent anti-freeze coolant in system expansion tank **4 exclusively with cold engine:** level must always be higher than the « MIN » mark (**L**, figure on page 28) stamped on the tank. When engine is very hot the level might rise noticeably: this could also happen immediately after stopping the engine. Should the coolant level drop below the « MIN. », mark top up with a 50-50 mixture of water and FIAT **Paraflu 11 fluid** (available at FIAT Service Stations).

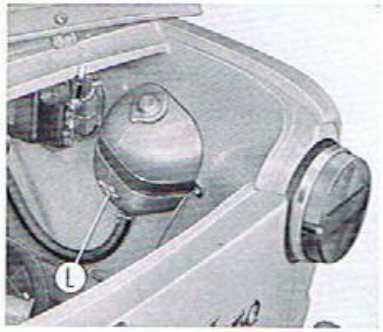
To top up, remove expansion tank cap and pour in the coolant mixture seeing that its level reaches about 7 cm (2¾ in.) above the « MIN » mark.

Should more than 2 consecutive top ups be required at short intervals or after limited mileages (300 miles) have the system checked at a FIAT Service Station.



ENGINE COOLING SYSTEM

1. Radiator - 2. Radiator cap - 3. Line, radiator-to-expansion tank - 4. Translucent expansion tank - 5. Expansion tank cap - 6. Fan - 7. By-pass line, cylinder head-to-pump (thermostat still closed) - 8. Coolant pump - 9. Thermostat in engine coolant outlet duct



Only in case of an emergency (sudden heavy coolant losses) the system can be filled with tap water operating as follows:

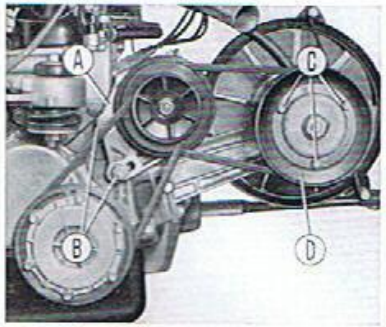
- Allow engine to cool down.
- Remove radiator and tank caps.
- Pour in water slowly through the expansion tank filler port until water overflows from radiator filler neck.
- Refit radiator cap.
- Fill tank completely.
- Refit tank cap.

In winter, after filling the system and before driving away, let the engine run for a while to ensure thorough mixing of the coolant.

Remember that with an addition of about 1.5 liters (3.2 U.S. Pts. - 2.6 G.B. Pts.) of plain water — equivalent to 2/3 the volume of the expansion tank — freezing point rises from —35° C (—31° F) to —23° C (—10° F).

FIAT SERVICE **As soon as possible** have a FIAT Service Station repair the fault, and refill with **permanent coolant.**

Every 60.000 km (36,000 miles) or **every 2 years,** whichever occurs first: have the coolant replaced at a FIAT Service Station.



Generator, water pump and fan drive belts tension

FIAT SERVICE Through use the belts can slacken and slip. Hence have belts checked periodically for proper tension which is correct when under a pressure of about 10 kg (22 lbs.) sag is 1 to 1.5 cm (⅓ in. to ½ in.). If necessary, adjust as follows:

Generator drive belt:

- Slacken the two support nuts **B.**
- Rotate support **A** outwards until tension is correct. Retighten support nuts **B.**

Water pump and fan drive belt:

- Back out the three pulley-to-hub mounting nuts **C.**
- Remove outer semi-pulley **D,** take out one (or more, depending on belt slackness) of the spacer rings forming the 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 **C.**

NÆSTE SIDE FORRIGE SIDE TILBAGE TIL INDHOLDSFORTEGNELSE

IGNITION SYSTEM

Ignition distributor

Every 10,000 km (6,000 miles): remove cap and pour a few drops of the same oil used in engine through hole **A**.

Furthermore, check breaker point gap **B** which must be 0.42 to 0.48 mm (.017 in. to .019 in.); adjustments are made by slackening screw **C** and shifting the contact carrier plate as required by a screwdriver tip inserted in slot **D**, then re-locking screw **C**.

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

If contacts are dirty (oily) wipe with a gasoline-moistened cloth.

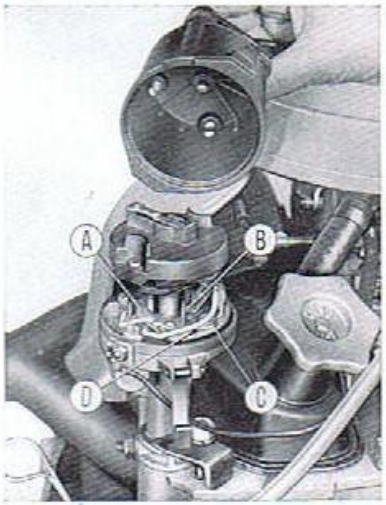
FIAT SERVICE Following repeated adjustments, or soc ..r if required, replace contacts.

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 if electrode gap is as specified: 0.6-0.7 mm (.024 in. - .028 in.).

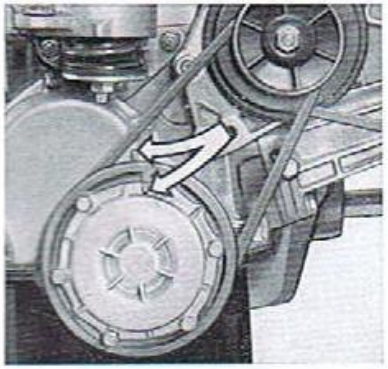
Ignition timing

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

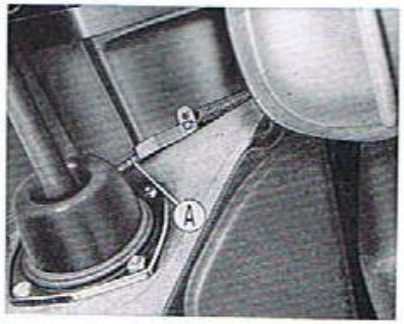


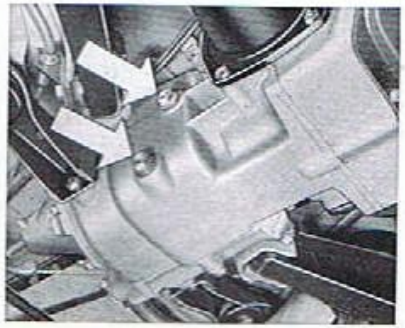
Time distributor to engine as follows:

— 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 fan drive pulley will be located 14-15 mm (.55 in. to .59 in.) **ahead of the mark** on timing gear cover (left hand rotation); this corresponds to an 11° B.T.D.C. advance.



— Remove distributor cap and rotate drive shaft by hand until rotor points to contact for firing in cylinder No. 1 (reference numbers for cable connection to cylinders in desired sequence are marked on cap).
In this position, contacts are about to snap open (check first if max. contact distance is 0.42-0.48 mm = = .017 in. - .019 in.).





— Next, without disturbing the distributor shaft, insert the shaft splined end in the drive gear, being careful to position the vacuum advance variator correctly, i.e., turned away from engine, to prevent interference with nearby parts.

— Lock the distributor in position by its bracket and nut.

— Fit distributor cap.

— See that cables are correctly connected to spark plugs.

POWER TRAIN

Clutch

FIAT SERVICE Should clutch pedal free travel result noticeably less than 23-25 mm (7/8 in. - 1 in.) re-adjust by stretcher **A**, operating from below car, after slackening its counternut and holding fast the flat portion of the bowden with a wrench.

Transmission and differential

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

Every 30,000 km (18,000 miles): renew oil. Let drip thoroughly before refilling.

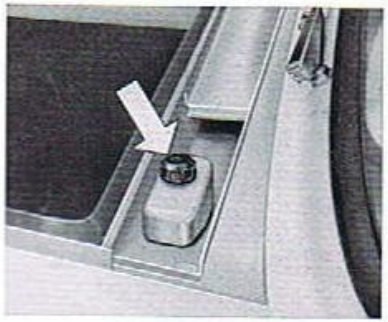
BRAKES

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 fuid) or equivalent non-mineral HD grade.



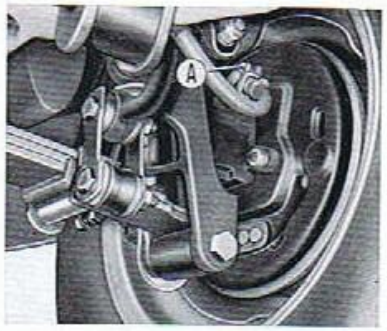
Brake system

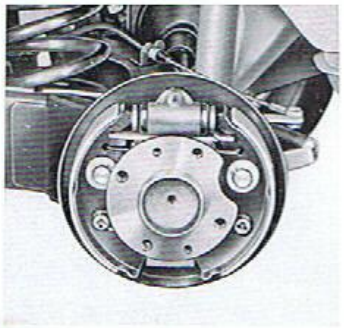
Shoes are of the self-centering design and are provided with automatic clearance adjustment device.

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

Air bleeding - In case brake system has been drained the system must be bled after refilling. This is a very delicate operation and should be entrusted to a FIAT Service Station. However, the following points have been outlined for the guidance of those who decide to do the work themselves.

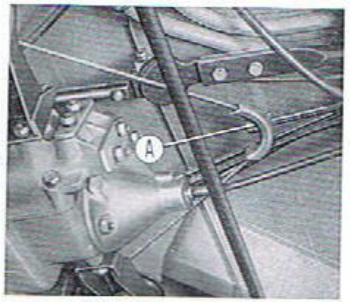
— Wipe off any dirt from tip of bleeder connection **A** on top of each wheel cylinder. If necessary, unclog central hole. Fit one end of bleeder hose on wheel cylinder bleeder.





— 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 adjust control cable tension as follows.

— Set hand lever in fully released position.

— Pull the lever up for two serrations.

— Loosen the counternut of stretcher **A** and turn the latter until the cable is taut, then retighten the counternut.

— After the adjustment check that the car can be fully braked with lever not yet to full stroke end.

NÆSTE SIDE FORRIGE SIDE TILBAGE TIL INDHOLDSFORTEGNELSE

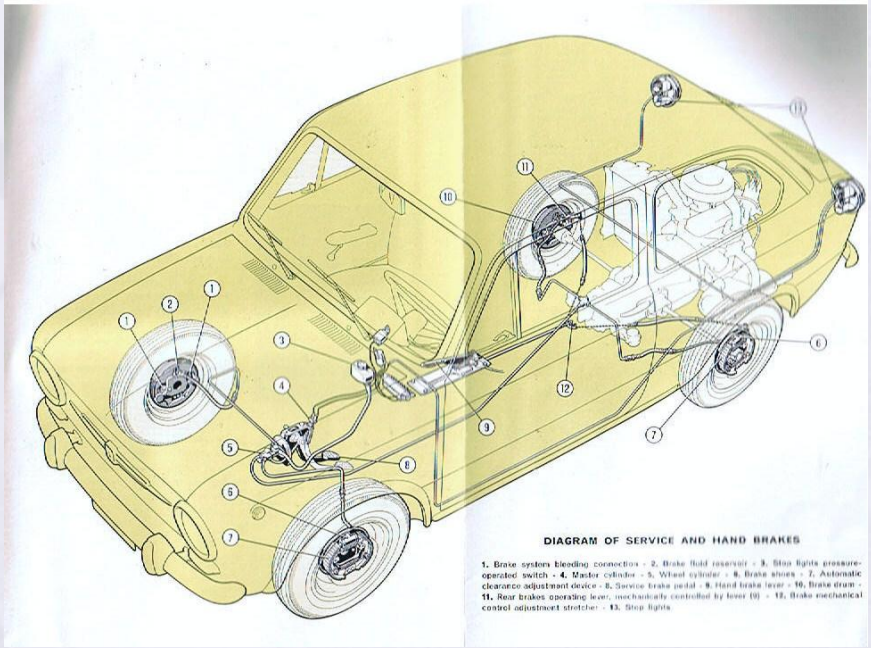


DIAGRAM OF SERVICE AND HAND BRAKES

1. Brake system bleeding connection - 2. Brake fluid reservoir - 3. Stop lights pressure-operated switch - 4. Master cylinder - 5. Wheel cylinder - 6. Brake shoes - 7. Automatic clearance adjustment device - 8. Service brake pedal - 9. Hand brake lever - 10. Brake drum - 11. Rear brakes operating lever, mechanically controlled by lever (9) - 12. Brake mechanical control adjustment stretcher - 13. Stop lights

SUSPENSIONS

Kingpins

Every 2,500 km (1,500 miles): inject some FIAT **Jota 1** grease in lubricator on top of each pin housing.

Hydraulic shock absorbers

FIAT SERVICE

Whenever dampening action becomes irregular have shock absorbers inspected.

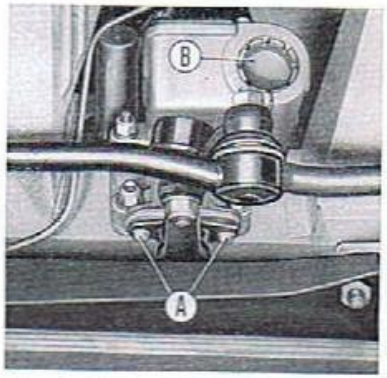
STEERING AND WHEELS

Steering linkage articulations

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

FIAT SERVICE

If rubber caps are damaged they must be replaced; the new caps must be filled with FIAT **MR3** grease prior to their installation. At the same time inspect ball joints for excessive play. If evidence of looseness exists, the ball joint must be replaced.



Steering gear adjustments

FIAT SERVICE

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

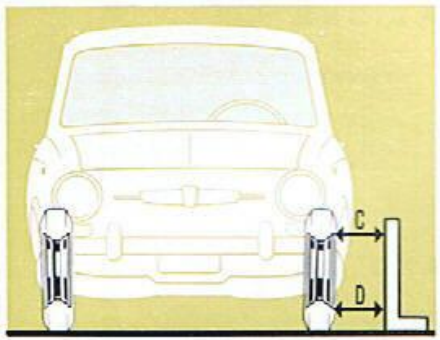
a) **Backlash between worm screw and sector:**

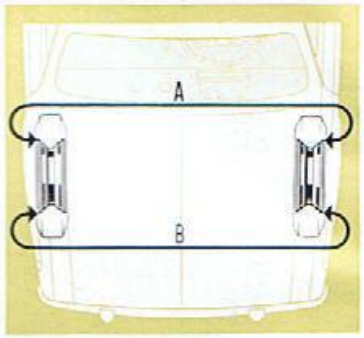
— Remove the two adjustment plate fixing screws **A** and rotate eccentric bush by adjustment plate to bring sector closer to worm screw. Secure plate again by using one of the other fixing holes.

— Should adjustment plate be already fixed in 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 the adjuster ring **B**.

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

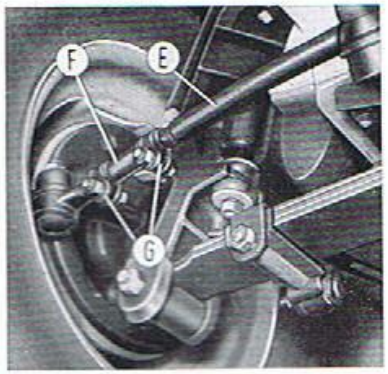




Front wheel geometry

FIAT SERVICE Should abnormal wear of tires be noticed, have the front wheel **toe-in and camber** checked.

This check must be carried out with fully laden car. After loading, move the car a few yards so that suspension components assume their natural setting under load. Toe-in measurements must be taken on the same points of wheel rims: measure in **A** then move car until points **A** reach position **B** and take a new measurement - **A** must be = **B** + 2 to 4 mm (.08 in. to .16 in.).



Camber measurements must be taken in the same way, except that **D** must be greater than **C** by 12-13 mm (.47 in. - .51 in.).

Length of track rods **E** is adjustable by turning in or out the sleeves **F** after slackening locking clamps **G**.

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.

Front wheel bearings

FIAT SERVICE **Every 20,000 km (12,000 miles):** have the bearings lubricated with FIAT **MR 3** grease and adjusted at a FIAT Service Station.

Rear wheel bearings

FIAT SERVICE **Every 30,000 km (18,000 miles):** have the bearings lubricated with FIAT **MR 3** grease at a FIAT Service Station.

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 in each cell 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, coating them with pure ropy vaseline. To reach battery lift mat **C** of front compartment and unscrew the two knobs **A** retaining protection cover **B**.

If car must be garaged for a considerable time, see « *Safe Motoring Hints* ».

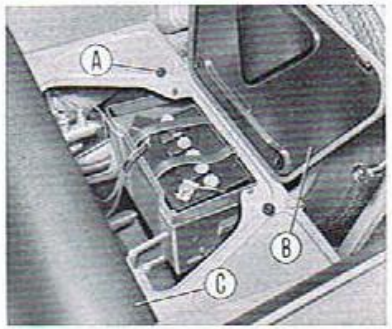
Generator

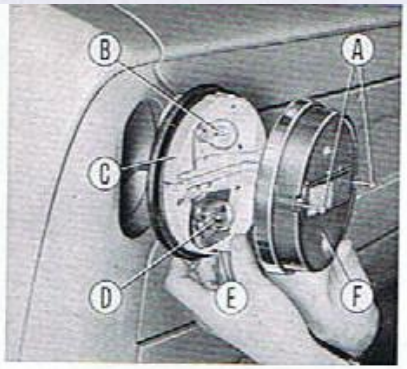
FIAT SERVICE **Every 30,000 km (18,000 miles):** clean commutator carefully with a dry cloth; check brushes for wear and contact conditions, and replace if necessary, seating the new brushes on commutator.

Lubricate both the drive and commutator end ball bearings 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 **RL2** grease.





Rear parking, stop and direction indicator lamps

A. Lamp body and lens mounting screws.

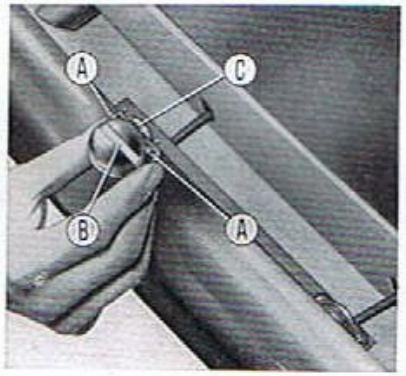
B. Bayonet-coupled bulb, direction indicator light.

C. Lamp body.

D. Bayonet-coupled bulb, parking and stop lights.

E. Slot, lens location.

F. Lens with reflex reflector.

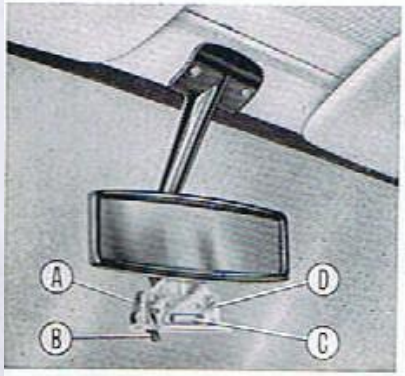


Number plate lamps

A. Lens and light cap mounting screws

B. Lens.

C. Bayonet-coupled bulb.



Front compartment light

Incorporated in rear view mirror.

A. Bulbholder spring fasteners.

B. Switch.

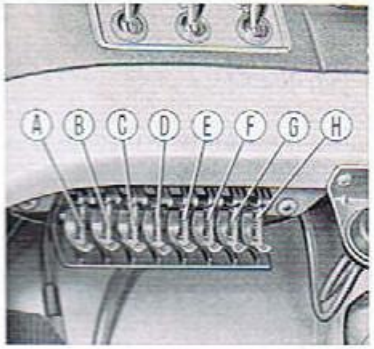
C. Bulb, cylindrical.

D. Bulbholder, snap-on type.

Fuses

Eight, 8-Amp. fuses located under instrument panel to the left of steering post. Before replacing a burnt fuse trace the cause of blowing, and remedy accordingly.

Unprotected circuits: battery charge with indicator, ignition, starting.



Fuses	Protected circuits
A	— Insufficient oil pressure indicator. — Excessive engine coolant temperature indicator or heat gauge sending unit. — Fuel gauge, with reserve indicator. — Windshield wiper. — Instrument cluster light. — Electrofan motor. — Direction indicators and relevant arrow tell-tale. — Stop lights.
B	— Courtesy light in rear view mirror. — Horn.
C	— Left headlamp low beam.
D	— Right headlamp low beam.
E	— Left headlamp high beam. — High beam indicator.
F	— Right headlamp high beam.
G	— Front left parking lamp. — Parking lamps indicator. — Rear right parking light. — Number plate lamp (left). — Engine compartment lamp.
H	— Front right parking lamp. — Rear left parking light. — Number plate lamp (right).

BODYWORK

Door hinges

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

Body-mounted mechanical units

Every 20,000 km (12,000 miles): have their anchorings checked for proper tightness.

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 bottle outlet pipe suction end.

In case of incorrect jet aiming 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

The kit supplied for servicing operations the car owner can do himself is contained in a box stowed in front compartment, next to the spare wheel, where also the jack, held by straps, is located.

The kit includes:

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

SPECIFICATION

ENGINE

Type	100 G.002
Number of cylinders, in line	4, vertical
Bore and stroke	65 x 63.5 mm (2.56 in. x 2.50 in.)
Total piston displacement	843 cm³
Compression ratio	8.8 to 1
Engine rotation	counterclockwise
Max. power: DIN rating	37 HP

VALVE GEAR

Overhead valves. Camshaft in crankcase.

Timing data:

Intake	Opens: B.T.D.C.	16°
	Closes: A.B.D.C.	56°
Exhaust	Opens: B.B.D.C.	56°
	Closes: A.T.D.C.	16°

Tappet clearance adjustment for valve timing . . . . 0.375 mm (.015 in.)

Final tappet operation clearance adjustment, **with cold engine:** intake and exhaust . 0.15 mm (.006 in.)

FUEL SYSTEM

Weber or "**Holley Europea**" (Weber License) type **30 ICF 7** or **Solex** type **C 30 PIB 4** carburetor, with progressive-action starting device and accelerating pump.

Paper cartridge air cleaner with silencer and warm air intake.

Crankcase emission control system by recirculation of blow-by gases and oil vapors.

Carburetor data:	Weber or Holley	Solex
Venturi diameter . mm	22.00	22.00
Main jet diameter »	1.17	1.10
Idle jet diameter . »	0.40	0.40
Main air jet diameter . . . . . »	1.40	1.60
Accelerating pump jet diameter . . »	0.50	0.50
Starting jet diameter . . . . . »	(*)	1.00

(*) Starting port variable by butterfly valve.

LUBRICATION

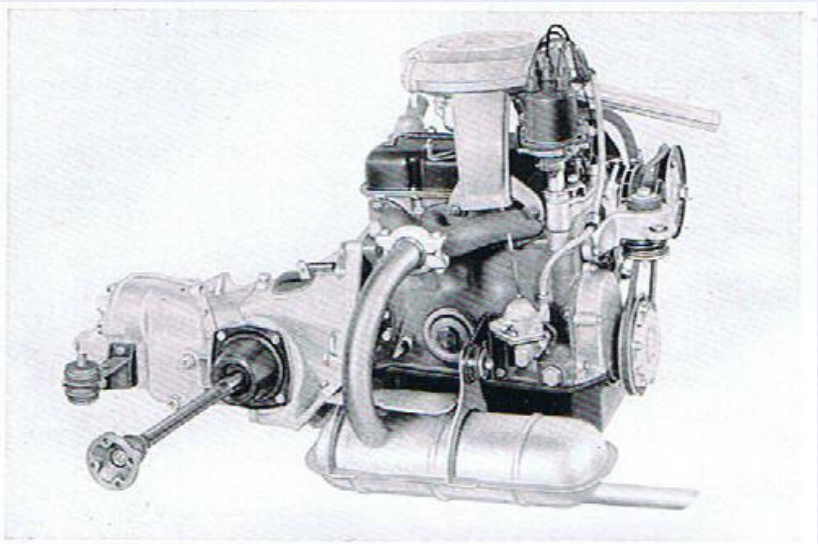
Forced, by gear pump; pressure relief valve.
Normal lubrication pressure 3 to 4 kg/cm² (42.6 to 57 p.s.i.)
Thorough oil cleaning by full-flow centrifugal filter.

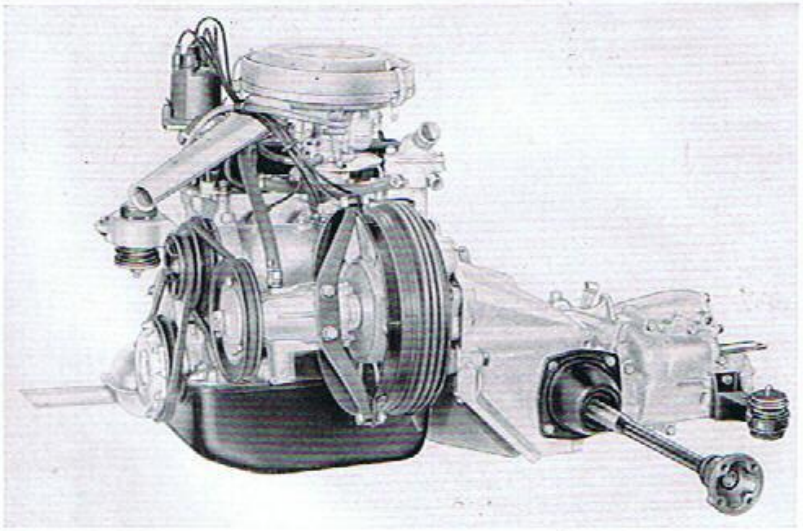
COOLING

Permanent, antifreeze coolant circulated by centrifugal pump.
Axial flow radiator fan.
Thermostat in engine coolant outlet duct.

IGNITION SYSTEM

Firing order	1 - 3 - 4 - 2
Static advance	10
Centrifugal advance	28°
Ignition point gap	0.42-0.48 mm (.017 in. - .019 in.)
Spark plugs	**Marelli CW 240 L** / **Champion N 4** / **Bosch W 225 T 2**
diameter and pitch (metric)	14 x 1.25 mm
spark plug gap:	0.60-0.70 mm (.024 in. - .028 in.)





Engine-transmission-differential unit.

POWER TRAIN

CLUTCH

Single plate, dry, with disc-type engagement spring, mechanically operated.
Pedal free travel: 23-25 mm (7/8 in. - 1 in.)

TRANSMISSION AND DIFFERENTIAL

4 forward speeds (all synchronized) and reverse. Gear ratios:

1st gear	2nd gear	3rd gear	4th gear	Reverse
3.636:1	2.055:1	1.409:1	0.963:1	3.615:1

Hypoid final drive, ratio . . . . 8 to 37

Differential and final drive gears in transmission casing.
Drive to rear wheels by slip-joint type half-axle swing shafts.

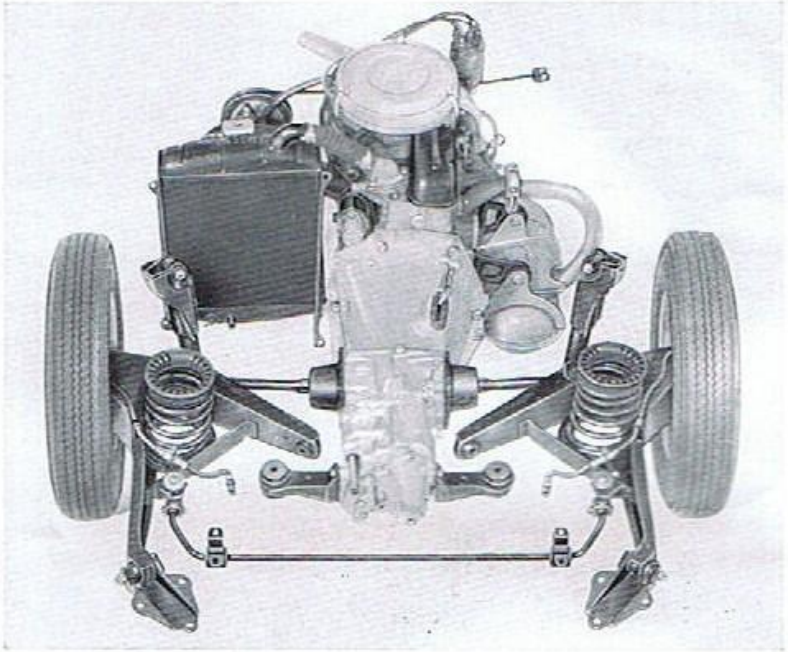
BRAKES

Service: self-centering, expanding-shoe type brakes, on all four wheels, hydraulically-operated through master cylinder and wheel cylinders.
Automatic shoe-to-drum clearance adjustment device.

Hand: mechanical, lever-controlled, operating on rear wheel shoes.

Front suspension and steering.

Rear suspension.



SUSPENSION

FRONT SUSPENSION

Independent, with upper swinging arms and hydraulic shock absorbers.
Semielliptic spring: transversally mounted, anchored at center to one body cross beam and at the ends to the kingpin housings.
Stabilizer bar connected to semielliptic spring.

REAR SUSPENSION

Independent, with coil springs and swinging arms.
Hydraulic shock absorbers.
Stabilizer bar connected to swinging arms.

STEERING AND WHEELS

STEERING

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

Control by worm screw and sector: ratio 2/26
Independent and symmetric track rods to both wheels.
Turning circle diameter . . 9.60 m (31 1/2 ft)
Front wheel camber, measured at rim (fully laden) 12-13 mm (.47 in. - .51 in.)
Front wheel toe-in, measured at rim (fully laden) 2 to 4 mm (.08 in. to .16 in.)

WHEELS AND TIRES

Disc wheels, with rim size	4.00 x 12
Low-pressure tires, size	5.50 - 12

44

ELECTRIC SYSTEM

(Voltage - 12 V)

GENERATOR (FIAT)

continuous output	230 watts
peak output	320 watts
Cut-in speed (lights out) engine, abt.	915 rpm
Cut-in speed (lights out) car in 4th gear	20 km/h (12 1/2 m.p.h.)

BATTERY

capacity at 20-hr discharge rate: 36 Amp/hr.

STARTER (FIAT)

Power . . . . . 0.50 kW

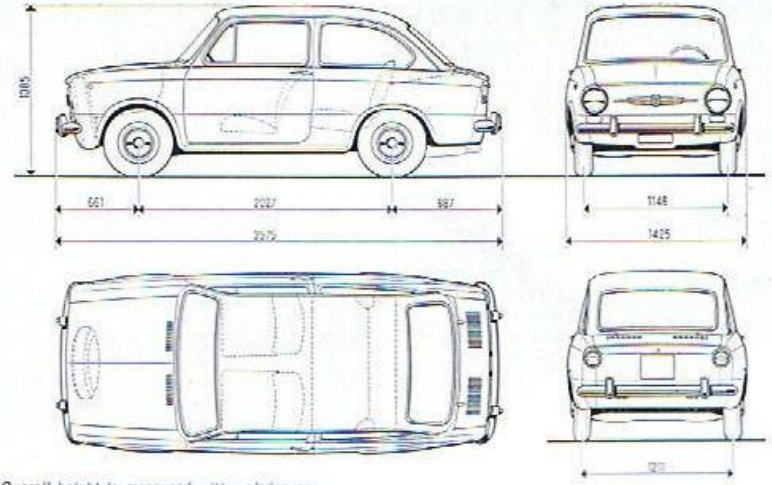
Direct engagement by solenoid.

FUSES

Eight, 8 Amps., in fuse holder under instrument panel, to the left of steering post.

BULBS

Location	Type	Wattage (12 volts)
— Headlamps high beam	spherical, double filament for asymmetric units	45
— Headlamps low beam		40
— Front lamps direction indicators	spherical, double filament	21
— Front lamps parking		5
— Tail lamps stop		21
— Tail lamps parking		5
— Rear direction indicators	spherical	21
— Number plate lights	spherical	5
— Engine compartment light		
— Rear view mirror lamp	cylindrical	5
— Instrument cluster light	tubular	3
— Direction indicator side repeaters		
— High beam indicator		
— Parking lamps indicator		
— Generator charge indicator		
— Direction indicators tell-tale		
— Insufficient oil pressure indicator		
— Fuel reserve indicator		
— Excessive engine coolant temperature indicator		



Overall height is measured with unladen car.

mm . . .	661	887	1148	1211	1385	1425	2027	3575
in. . . .	26	34.9	45.1	47.7	54.5	56.1	79.8	140.7

BODY

Integral construction.
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 collision.
Fixed-pane back and rear quarter windows.
Front compartment, with forward-opening lid, housing the spare wheel, battery, brake fluid reservoir and windshield washer bottle; ample space for luggage.
Engine compartment lid at rear; removable rear end panel for complete access to power plant.
Front adjustable, forward-tilting, bucket-type seats.
Rear, fixed, bench-type seat, with forward-folding back to increase rear luggage space.
Luggage shelf behind rear seat.
Utility shelf under instrument panel.
Pouches and arm rests on door inner panellings.
Front hand grab (side opposite steering wheel); rear hand grabs with coat hanger.
Rear-view mirror with incorporated bulb for car interior illumination.
Two adjustable sun visors.
One ash tray at dash center and two for rear passengers on side panels.
Front and rear bumpers with rubber-lined guards.
Optional extra: radio receiver.

PERFORMANCE

SPEEDS

Maximum speeds after break-in:	km.h	m.p.h.
— 1st gear	30	19
— 2nd »	55	34.2
— 3rd »	85	52.8
— 4th » abt.	125	77.7

GRADIENTS

Maximum climbable, fully laden:

— 1st gear	31 %
— 2nd »	17 %
— 3rd »	10 %
— 4th »	6 %

WEIGHTS

Weights	dry	645 kg (1422 lbs)
	curb	670 kg (1477 lbs)
Accommodation		5 persons plus 50 kg (110 lbs) of luggage
Useful load, max		400 kg (882 lbs)
Gross weight (fully laden)		1070 kg (2359 lbs)
Maximum towable weight		590 kg (1300 lbs)

Appendix:

"Standard" Version Sedan

"Special" Version Sedan

"Standard" Version Specification

The «**Standard**» version differs from the «Super» version, described in the previous section, as follows.

ENGINE

Type	100G.000
Compression ratio	8 to 1
Max. power: DIN rating	34 HP

CARBURETOR

Weber or **"Holley Europea"** (Weber License) type **30ICF6** or **Solex** type **C30PIB4.**

Data:		Weber or Holley	Solex
Venturi diameter	mm	21.00	21.00
Main jet diameter	»	1.10	1.07
Main air jet diameter	»	1.40	1.65
Accelerating pump jet diameter	»	0.50	0.45

IGNITION

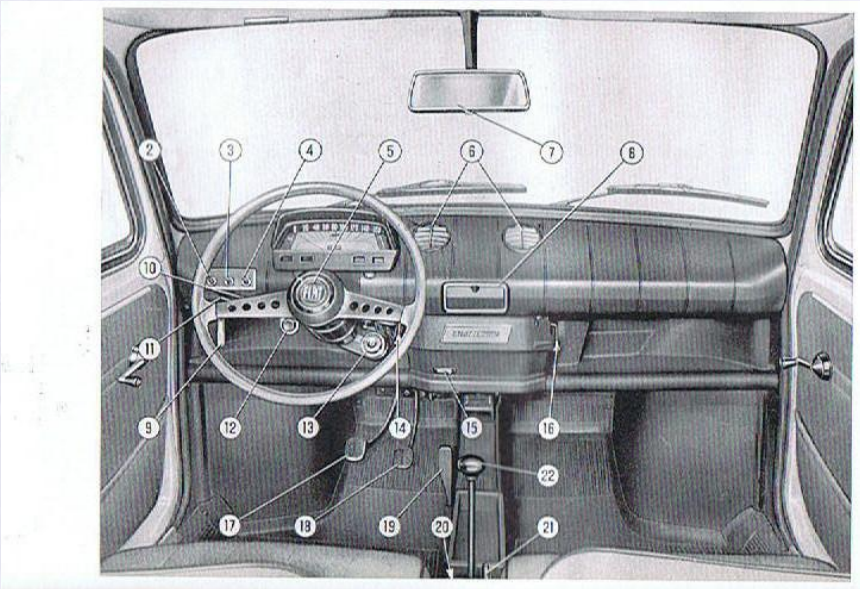
Distributor static advance	11°

PERFORMANCE

Maximum permissible speed in 4th gear, after break-in abt. 120 km/h (74.6 m.p.h.)

"Special" Version Specification

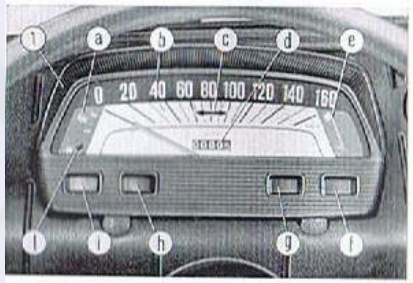
Only the main features of this model differing from the "**Super**,, version Sedan are described here. For all remaining parts, refer to the previous sections.



IDENTIFICATION DATA

Engine	type 100 GB.000
Chassis	type 100 GB

GAUGES AND CONTROLS

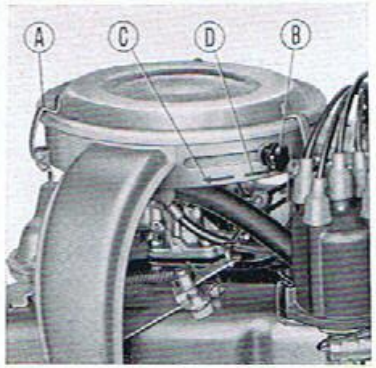


nstrument cluster incorporating:

uel gauge - **b.** Speedometer - **c.** Direction indicators arrow tale - **d.** Mileage totalizer - **e.** Heat gauge (the black sector of dial ined in white indicates that engine operation temperature is regular. n the pointer enters the red sector it is a warning of engine over- ing. If this occurs, stop the car, find out and eliminate the cause) - gh beam indicator - **g.** Parking lights indicator - **h.** Generator charge cator - **i.** Insufficient oil pressure indicator - **l.** Fuel reserve indicator.

2. Outer lighting switch.
3. Instrument cluster light switch.
4. Windshield wiper switch.
5. Horn button.
6. Adjustable outlets for air admission into car.
7. Rear view mirror with incorporated light and switch and lever controlled anti-glare device.
8. Ash tray.
9. Front compartment lid release lever.
10. High/Low beams change-over switch lever.
11. Direction indicators control lever.
12. Windshield washer pump control.
13. Lock switch.
14. Air intake control lever.
15. Electrolan switch.
16. Heater radiator water cock lever.
17. Clutch pedal.
18. Service brake pedal.
19. Accelerator pedal.
20. Choke knob.
21. Hand brake lever.
22. Gearshift lever.

FUEL SYSTEM



Air cleaner

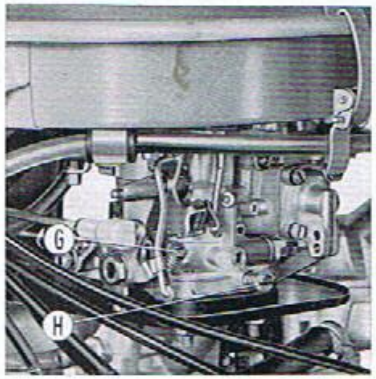
Every 10,000 km (6,000 miles): remove upper cover by lifting the three spring fasteners **A** and replace the cartridge. **When dusty conditions prevail,** replace the cartridge more often.

Climatic control

The cleaner has two separate air intakes, one for cooler air admission in summer and one for heated air in winter, which are selected by knob **B.**

Summer: shift knob in the direction of blue arrow **C** for admission of cooler air.

Winter: shift knob in the direction of red arrow **D** for admission of heated air.



Carburetor

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

Every 10,000 km (6,000 miles): clean carburetor jets and inner strainer. This cleaning should be performed exclusively by using 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 FIAT Service Station when carburetor develops major troubles.

POWER TRAIN

TRANSMISSION AND DIFFERENTIAL

Hypoid final drive, ratio . . . . . 8 to 41

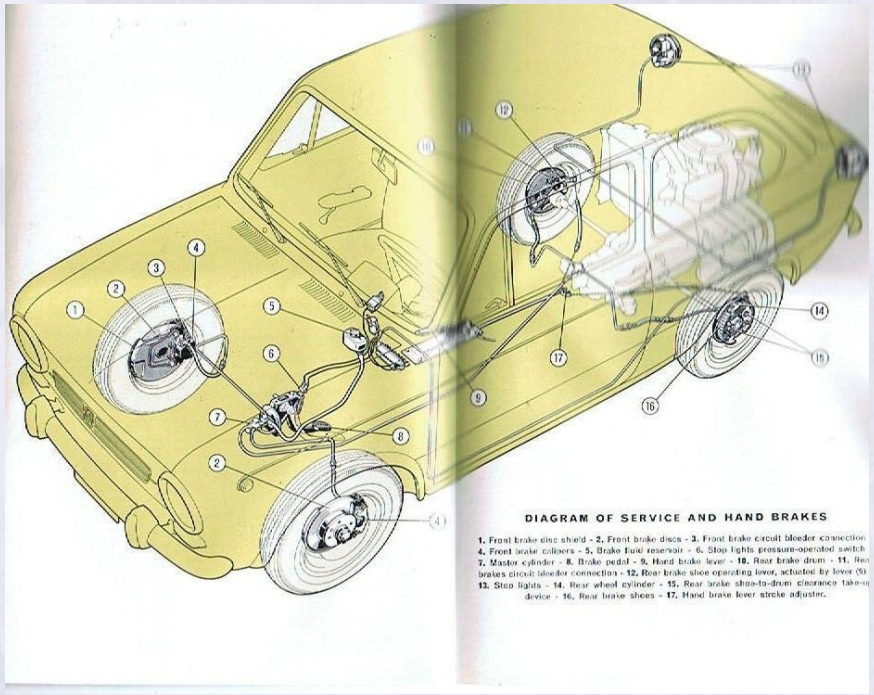
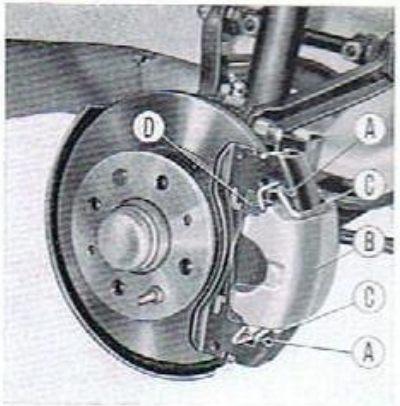


DIAGRAM OF SERVICE AND HAND BRAKES

1. Front brake disc shield - 2. Front brake discs - 3. Front brake circuit bleeder connection - 4. Front brake calipers - 5. Brake fluid reservoir - 6. Stop lights pressure-operated switch - 7. Master cylinder - 8. Brake pedal - 9. Hand brake lever - 10. Rear brake drum - 11. Rear brakes circuit bleeder connection - 12. Rear brake shoe operating lever, actuated by lever (9) - 13. Stop lights - 14. Rear wheel cylinder - 15. Rear brake shoe-to-drum clearance take-up device - 16. Rear brake shoes - 17. Hand brake lever stroke adjuster.

BRAKES

Brakes are of the disc type with floating caliper and one cylinder to each wheel at front and of the expanding-shoe drum type at rear.



Front disc brakes

During car general cleaning, and before carrying out any maintenance on the brake system, clean carefully each front brake **using exclusively warm water and FIAT LDC detergent,** then drying immediately with a compressed air blast.

Never use gasoline, diesel fuel, trichloroethylene or other mineral solvents of any kind which are detrimental to the hydraulic cylinder protection gaskets.

The pads should be replaced when their thickness is reduced to less than **2 mm (.08 in).** To replace the pads remove pins **A** (4 to each wheel) and, by pushing caliper **B** towards wheel center, remove pads **C** from outside. This permits removal of the caliper and replacement of plates **D** carrying the friction pads.

Before inserting the new plates into the caliper push in the wheel cylinder plunger as far as possible.

STEERING AND WHEELS

STEERING

New steering wheel with metal spokes.

WHEELS AND TIRES

Slotted disc wheels, with rim size . . . . . 4 1/2 J x 13

Low-pressure tires, size — bias ply . 145-13; radial ply . 145-13 ZX, 145-13

Front wheel camber, measured at rim . . 13 to 14 mm (.51 to .55 in.)

ELECTRIC SYSTEM

— Installation of a heat gauge in instrument cluster (speedometers gauged in km) in lieu of excessive engine coolant temperature indicator.

— Installation of a higher capacity battery (48 Amp/hr instead of 36 Amp/hr at 20 hr discharge rate).

Cut-in speed (lights out):

— engine, abt. . . . . 1000 rpm

— car in 4th gear 22 km/hr (13½ mph)

BODY

— Instrument panel completely lined with plastic material.

— Aesthetically improved front and rear seats.

— Rear view mirror (day/night) with anti-glare device.

— Roof head lining consisting of poly-vinyl chloride laminate with vegetable felt sound deadener.

— Plastic utility tray on tunnel.

— Glossy plastic moldings on roof troughs.

— Windshield and back window with glossy plastic reveals.

— Stainless steel moldings on side panel upper crease line.

— New front end ornament.

PERFORMANCE

SPEEDS

Maximum speeds after break-in:

	km/h	m.p.h.
— 1st gear	35	22
— 2nd »	60	37
— 3rd »	90	56
— 4th »	135	84

GRADIENTS

Maximum climbable, fully laden:

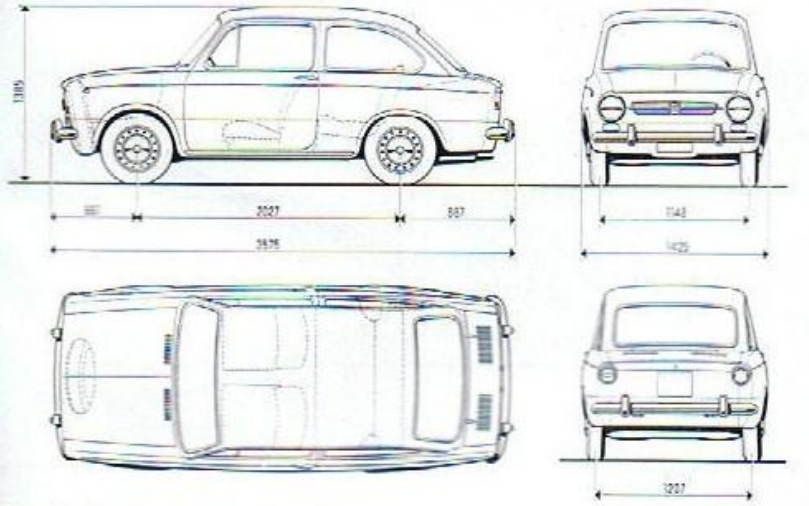
— 1st gear	35 %
— 2nd »	18 %
— 3rd »	11 %
— 4th »	6.5 %

WEIGHTS

Weights	dry	660 kg (1455 lbs)
	curb	690 kg (1521 lbs)
Accommodation		5 persons plus 50 kg (110 lbs) of luggage
Useful load, max		400 kg (880 lbs)
Gross weight (fully laden)		1090 kg (2403 lbs)
Maximum towable weight		600 kg (1323 lbs)

DIMENSIONS

mm	661	687	1148	1207	1385	1425	2027	3575
in.	26	34.9	45.2	47.5	54.5	56.1	79.8	140.7



Overall height is measured with unladen car.

FILL-UP DATA

ITEM	CAPACITY lt	kg	U.S. Units	G.B. Units	REFILL
Fuel tank	30	—	8 Gals.	6 2/3 Gals.	"Super" and "Special" Versions: Premium gasoline "Standard" Version: Regular gasoline
Radiator, water jackets and heating system	7.5	—	8 Qts.	6 2/3 Qts.	50-50 water and FIAT **Paraflu 11** mixture (1)
Sump and filter (2)	3.25	2.9	3 1/2 »	3 »	FIAT engine oil (4)
Transmission and differential	2.1	1.9	2 1/5 »	1 4/5 »	FIAT W 90/M oil
Steering box	0.12	0.11	1/4 Pts.	1/5 Pts.	
Brake system standard	0.26	0.26	1/2 »	2/5 »	**Liquido speciale FIAT etichetta azzurra** or equivalent HD non-mineral grade
Brake system super					
Brake system special	0.28	0.28	2/3 »	1/2 »	
Shock absorbers (each) front	0.17	0.155	2/5 »	1/3 »	FIAT **S.A.I.** oil
Shock absorbers (each) rear	0.15	0.135	1/3 »	1/4 »	
Windshield washer	1.00	—	2 »	1 3/4 »	Water and "FIAT **DP1** liquid (3)" solution

(1) This mixture has anti-oxidation, anti-corrosion, anti-foam, anti-scale properties and does not freeze down to —35° C (—31° F).

(2) Total capacity of sump, filter and lines is 3.30 kg (3.75 U.S. Qts. - 3.12 G.B. Qts.). The amount tubulated is the requirement for periodical oil changes.

(3) In summer use 30 cc "DP1 liquid" per liter of water; in winter, for temperatures down to —10° C (14° F) use a 50-50 mixture. For temperatures below —10° C (14° F) refill with "DP1 liquid" only and no water.

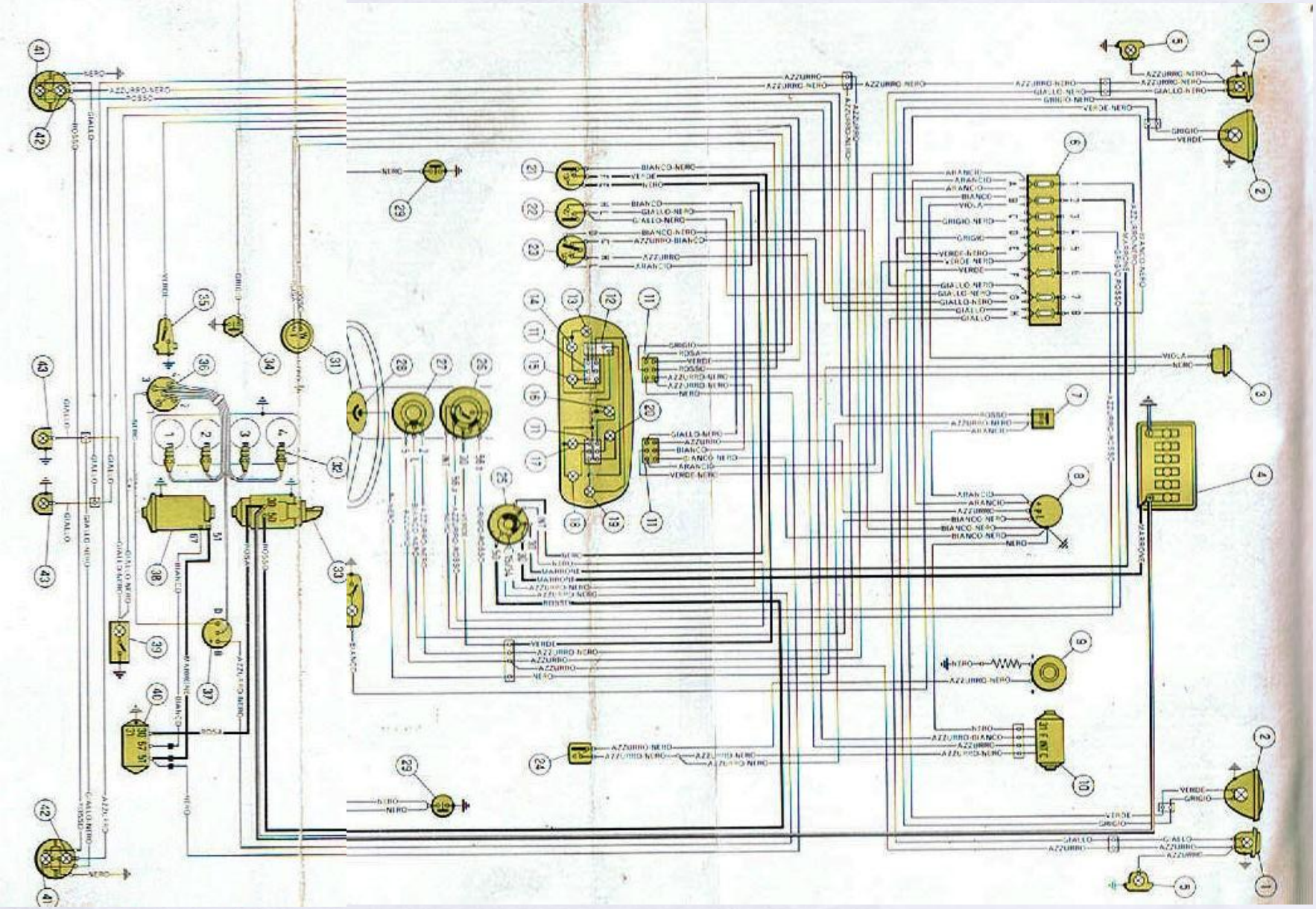
(4) See following table for grades:

Outdoor temperature		FIAT Single-grade Oil	FIAT « Multigrado » Oil
		Detergent oils of low ash content Type MS - Level MIL-L-2104 B (*)	
Minimum below —15° C (5° F)		**VS 10 W** (SAE 10 W)	—
Minimum from —15° to 0° C (5° to 32° F)		**VS 20 W** (SAE 20 W)	**10 W - 30**
Minimum above 0° C (32° F)	max. below 35° C (95° F)	**VS 30** (SAE 30)	**20 W - 40**
	max. above 35° C (95° F)	**VS 40** (SAE 40)	

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

TIRE PRESSURES

SIZE AND VERSIONS	Front kg/cm²	Front p.s.i.	Rear kg/cm²	Rear p.s.i.
[illegible] (Standard and Super)	1.2	17.0	2	28.4
[illegible] (Special)	1.1	15.6	1.8	25.6
[illegible] ZK (Special)	1.4	20.0	1.8	25.6



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. 8-A fuses.
7. Stop lights pressure-operated switch.
8. Flasher for direction indicators.
9. Electrofan motor.
10. Windshield wiper motor.
11. Connectors, cables to cluster.
12. Fuel gauge.
13. Fuel reserve indicator (red).
14. Insufficient engine oil pressure indicator (red).
15. Generator charge indicator (red).
16. Direction indicators arrow tell-tale (green).
17. Parking lights indicator (green).
18. High beam indicator (blue).
19. Excessive engine coolant temperature indicator (red) (*).
20. Instrument cluster light.
21. Outer lighting switch.
22. Instrument cluster light switch.
23. Windshield wiper switch.
24. Electrofan switch.
25. Lock switch.
26. High/Low beams change-over and flashes switch.
27. Direction indicators switch.
28. Horn button.
29. Jam switches, between doors and pillars, for courtesy light in rear view mirror.
30. Bulb incorporated in rear view mirror, for courtesy light, with toggle switch.
31. Fuel gauge sending unit.
32. Spark plugs.
33. Starter.
34. Sending unit, for insufficient oil pressure indicator.
35. Thermostatic sending unit for excessive coolant temperature indicator.
36. Ignition distributor.
37. Ignition coil.
38. Generator.
39. Engine compartment light with switch.
40. Generator regulator.
41. Rear parking and stop lights.
42. Rear direction indicator lights.
43. Number plate lights.

(*) Cars with speedometer gauged in miles have a cluster incorporating a heat gauge instead of the temperature indicator. The gauge and its sending unit are not shown on this diagram.

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

CABLE COLOR CODE

Arancio — **Orange**	Bianco — **White**	Giallo — **Yellow**	Marrone — **Brown**	Rosa — **Pink**	Verde — **Green**
Azzurro — **Light blue**	Blu — **Dark blue**	Grigio — **Grey**	Nero — **Black**	Rosso — **Red**	Viola — **Violet**

Denne bog er fremstillet for Fiat 500 Klub Danmark af medlem nr. 615