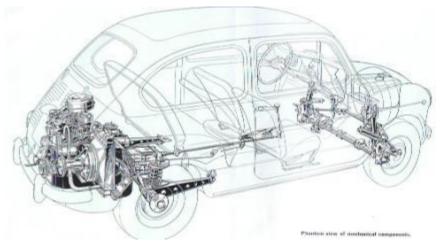


ENGELSK VERSION MED DANSK INDHOLDSFORTEGNELSE



2. UDGAVE 2012

INDHOLDSFORTEGNELSE KLIK PÅ DET ØNSKEDE EMNE

I	N	D	K	Ø	R	\prod	N	<u>(</u>

DØRE OG SÆDER

BAGAGERUM

MOTORRUM - VENTILATION - VARMESYSTEM

<u>SERVICESKEMA – CENTRIFUGALFILTER – VENTILJUSTERING- TAKTKÆDE</u>

<u>BENZINSYSTEM – TÆNDINGSYSTEM</u>

TÆNDRØR- TAKTMÆRKER – HOVEDCYLINDER - KONTR.AF GEAROLIE - KONRT. AF BREMSEVÆSKE

BREMSER - HJUL - DÆK

LYGTEJUSTERING

MOTORSPECIFIKATIONER

<u>UNDERVOGN – STYRETØI</u>

KAROSSERIMÅL

SOLTAG – OLIESPECIFIKATIONER

<u> PÅFYLDNINGSMÆNGDER – IDENTIFIKATIONSNUMRE</u>

INSTRUMENTPANEL - VINTERKØRSEL

UDSKIFTNING AF HJUL

SERVICESKEMA OG INTERVALDER

UDSKIFTNINGS INTERVALD F. OLIE OG FILTRE – BATTERI

UDSKIFTNING AF PÆRER OG SIKRINGER

TÆNDINGSLÅS – KØLESYSTEM

SMØRESYSTEM - OLIEPÅFYLDNING

KØLER - STØDDÆMPER

EL-DIAGRAM





	MAXIMUM PERMISSIBLE SPEEDS									
MILEAGE	1st gear		2nd gear		3rd gear		4th gour			
	kra/h	mply	im/h	mph	kns/h	mph	kmyh	mpt		
Up to 700 km (450 miles)	15	10	25	16	45	28	65	40		
From 700 to 1500 km (450 to 900 miles)	20	13	30	19	55	34	80	50		
From 1500 to 3000 km (900 to 1800 miles)		oed limited appear	ts may l	be grad	ually inc	reased	up to m	ax.		

- operation
- maintenance
- > specifications
- When car is new, a running-in of at least 3000 km (1800 miles) is required; therefore, never exceed the running-in speeds indicated above and on the windshield decal.
- Never drive at the maximum permissible speeds for long stretches, and do not lug the engine, especially when climbing.
- After starting, do not race the engine; warm up gradually.
- ➤ The crankcase running-in oil must be replaced by the recommended oil only after the first 1000-1300 miles. Coupon A of the Service Certificate.

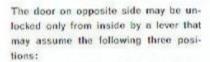
appendix: Convertible

OPERATION

DOORS AND SEATS

The driver's side door handle is provided with a key-controlled lock.

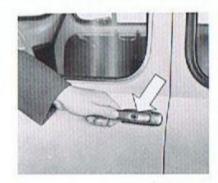
Courtesy light in rear view mirror turns on when door is opened.

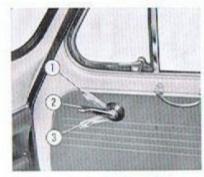


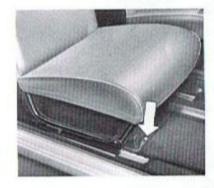
- 1 Open.
- 2 Closed.
- 3 Locked (cannot be opened from outside).

Lubrication of lock cylinders is not recommended; at the most, blow some graphite powder into the cylinder slot.

Front seats position on floor is adjusted by moving the control lever rightwards.











To facilitate access to rear compartment tilt front seats forward.

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 shown. Beyond the 4th position the squab drops freely and may be rested on rear seat cushion.

SAFETY BELTS

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

For the anchoring of diagonal type belts use the holes drilled in floor at both sides of tunnel while below rear quarter windows — in right and left side panels — drill our 9 mm (.35") holes in reference dimples (be careful to clear the threads of the underlying welded blocks).

For the archoring of lap type belts use said holes at tunnel sides and the holes already drilled in floor near doors, behind front seats. Floor holes are blanked by ublier plugs and covered by rubber matting.





FRONT COMPARTMENT LID

To release front lid, pull the control.

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

Lid is kept raised by prop B.

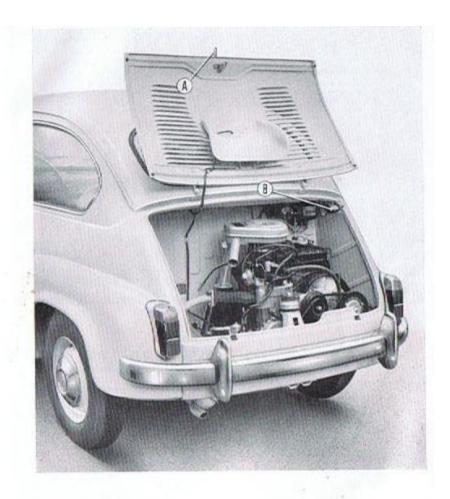
LUGGAGE ACCOMMODATION

Luggage space behind rear seat that may be increased by tilting the back down over cushion.

Additional luggage space in front compartment.







ENGINE COMPARTMENT

To open the lid pull handle A and lift, Bulb B will light up automatically if outer lighting switch is ON.

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.

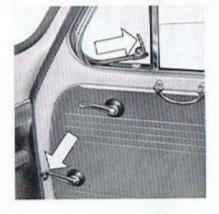
At night, and in dark areas, set lock switch key in position 3, page 12, - i.e., parking and number plate lights ON.

VENTILATION AND HEATING

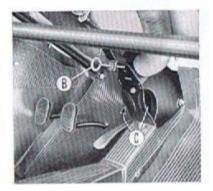
Summer ventilation. Swivelling ventipanes and regulator-controlled drop window on doors.

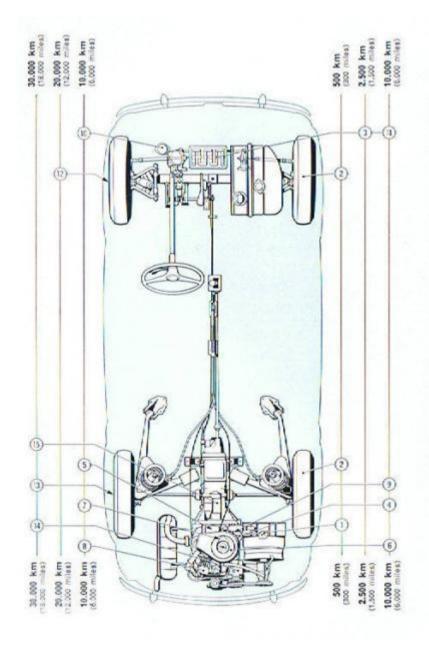
Winter heating. To demist and defrost the windshield turn the lever A rightwards (first stop). To heat car interior, open outlets C by pulling ring grab B. By moving the lever A to stroke end, warm air is admitted also through luggage space behind rear seat.

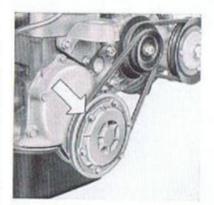
To promote air circulation inside car open slightly one of the ventipanes.

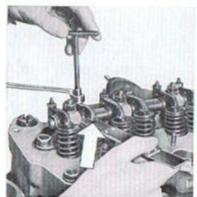


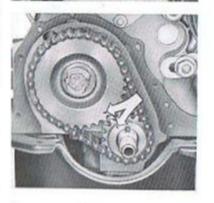












Centrifugal oil filter

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

VALVE GEAR

Valve tappet clearance

Every 10.000 km (6,000 miles): or whenever tappet operation becomes noisy, check valve tappet clearance; specified clearance, with cold engine, is 0,15 mm (.006") both for intake and exhaust valves. When engine is new, check valve tappet clearance 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 fined 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): undo wingnut A, remove and replace element B.

Replace filtering element at shorter intervals if car is operated under extreme dust conditions.

Carburetor

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

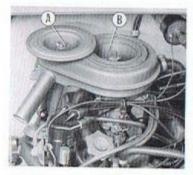
Every 10.000 km (6,000 miles): clean carburetor jets C and D and inner strainer E.

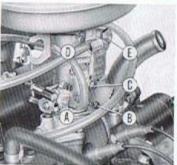
This cleaning should be performed exclusively by using an air blast.

Performance of the above operations requires the necessary know-how.

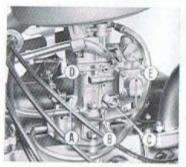
Always consult a FIAT Service Station when carbureter develops major troubles.

(*) Before disassembling fuel pump and relevant times for cleaning and inspection, disconnect the base from correction on fact tack to prevent syphoning of fact through the suction pipe.





Weber carburetor.



Solex carburetor.

Generator, water pump and fan drive belts tension

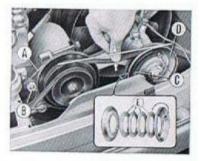
Through use the belts can slacken and slip. Hence have belts checked periodically for proper tension which is correct when under a pressure of about 22 lbs, sag is 1 to 1,5 cm (1/2 to 1/4"). If necessary, adjust as follows:

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 E forming the pulley groove.
- One 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.

IGNITION SYSTEM

Ignition distributor

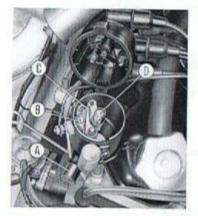
Every 10.000 km (6,000 miles): screw greaser cap A on distributor shank two or three turns. When cap is fully tightened in, repack with FIAT MR 3 grease. Wet wick D with some engine oil.

Check also breaker point gap C which must be 0,47 to 0.53 mm (.019*-.021*); adjustment is obtained by suitably displacing the stationary contact carrier plate after stackening its screw B. Relock screw.

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

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

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



25

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 (Marelli: 0,5-0,6 mm - .020"-.024"; A.C. Delco: 0,6-0,7 mm - .024"-.028").

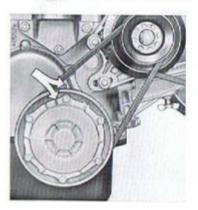
Ignition timing

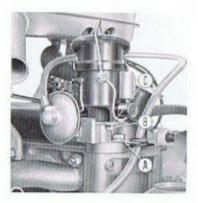
This timing is necessary when the distributor shall and/or camshaft have been removed.

If distributor is taken down without disturbing the crankshaft, no timing operation will be required after reassembly.

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 13-14 mm (.51" to .55") ahead of the mark on timing gear cover; this corresponds to a 10° B.T.D.C. advance.
- Insert lower coupling (with support) · on drive shalt toothed end and lock support to engine by screw A.
- Slacken screw B locking the distributor on vacuum advance corrector lever C.
- 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 0,47-0,53 mm -.019"-.021").
- Lock distributor in this position by fully tightening screw B.
- Check cables for correct connection to spark plugs.

POWER TRAIN

Clutch

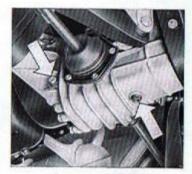
Should clutch show a tendency to slip, check that clutch pedal is set for an approximate 20 mm (.8") free travel. If necessary, re-adjust by the stretcher. Secure in position by locknut. To reach stretcher, remove bottom apron.



Transmission and differential

Every 10.000 km (6,000 miles): check oil level which must reach plug bottom face.

Every 30.000 km (18,000 miles): renew oil. Let drip thoroughly before refilling.



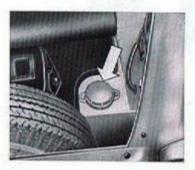
BRAKES

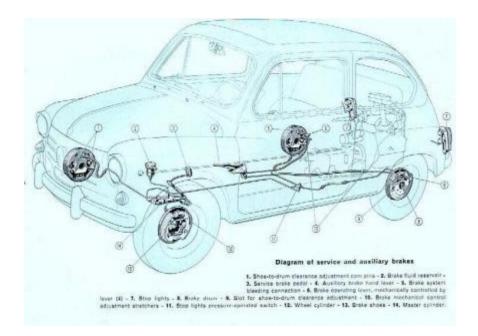
Brake fluid reservoir

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

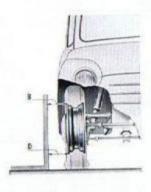
Checking this level more frequently. however, is a good practice.

Use exclusively the « Special FIAT Blue Label fluid » or equivalent nonmineral HD fluid.









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.

Every 30.000 km (18,000 miles): have the same operations performed on rear wheel bearings.

Wheel bearings



Every 20,000 km (12,000 miles): scavical have front wheel bearings

lubricated with FIAT MR 3 grease and adjusted at a Service Station.

Tires

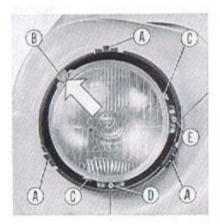
Every 500 km (300 miles): check pressure with a gauge, not forgetting the spare wheel.

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

CAR HEATING

Warm air filter

If after long use the amount of warm air sent into car is found insufficient, clean air lilter (9, page 16) located on longitudinal air conveyor side. The filter must be cleaned with a soft brush or a low pressure air blast. If clogged, replace.



LIGHTS

Headlamp aiming

When headlamps have been totally disassembled (shell included) their beams must be re-aimed. Place the unladen car (with tires inflated to the specified pressures) in the position shown in the illustration below.

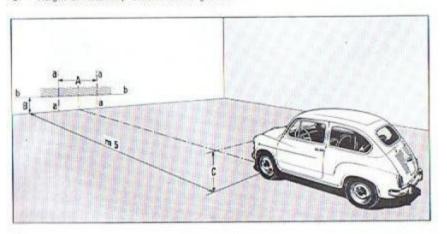
Horizontal aim checks with the high beams.

The center of the light pool of each headlamp must lie on the vertical reference lines a - a.

Vertical aim checks with the low beams.

The separation line between the lit and unlit areas must be horizontal and lie on the horizontal reference line b - b. Turn screw D for beam vertical aiming (inclination) and screw E for beam horizontal aiming (divergence).

- Distance between headlamp centers,
- B C minus 4 cm (1.577).
- C Height of headlamp centers above ground.



MISCELLANEOUS

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 is contained in a bag located in front compartment, next to spare wheel, and 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.
- Jack.

SPECIFICATIONS

ENGINE

Туре	100 D.000
Number of cylinders, in line	4
Bore and stroke 62 x 63,5 mm (2.	44" x 2.50")
Total piston displacement	767 cc
Compression ratio	7,5 to 1
Max. power less silencer, fan and water pump	29 HP 32 HP

VALVE GEAR

Overhead valves. Timing data:

	Opens: B.T.D.C. Closes: A.B.D.C.		34
Erisaust	Opens: B.B.D.C. Closes: A.T.D.C.	4	29
Crianar	Closes: A.T.D.C.	1	. 1

Tappet clearance adjustment for valve timing . . . , . . 0.45 mm (.018")

Final tappet operation clearance adjustment, with cold engine: intake and exhaust . 0,15 mm (.006*)

FUEL SYSTEM

Weber 28 ICP 3 or Solex C 28 PIB-3 carburetor, with progressive-action starting device. Air cleaner with silencer and warm air intake.

Blow-by gases and crankcase vapours recirculation system, to prevent air pollution.

Carburetor data:	Wober	Solex
Venturi diameter	19,00	20,00
Main jet diameter	1,00	1,15
Idle jet diameter	0,45	0,40
Main air jet diameter .	2,00	1,90
Accelerating pump jet		
diameter	0,40	0,55
Starting jet diameter .		1,00

^{*} Starting port variable by butterfly valve.

LUBRICATION

Normal lubrication pressure:

2,5 to 3 kg/cm² (35.5 to 42.6 p.s.i.)

COOLING

Water circulation by centrifugal pump. Thermostat in engine water outlet duct. Radiator cooling fan.

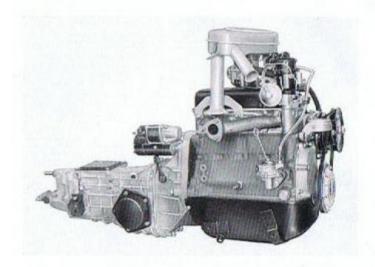
IGNITION SYSTEM

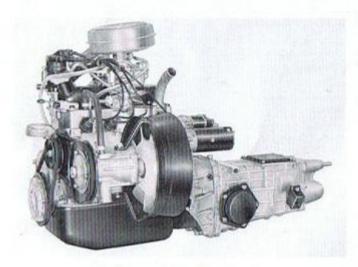
Spark plugs		M	la	re	III	C	W	225	N
Ignition point									
Vacuum advar									13*
Centrifugal ad	ve	inc	:0			*			30"
Static advance	r.					×		×	100
Firing order				ż		v		4	1-3-4-2

diameter and pitch (metric) . 14 x 1,25 mm

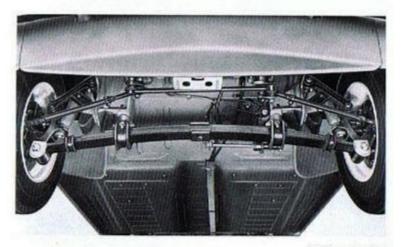
Spark plug gap:

Marelli 0,50-0.60 mm (.020"-.024") AC-Delco . . 0,60-0,70 mm (.024"-.028")





Engine-transmission-differential unit



Front suspension

POWER TRAIN

CLUTCH

Single plate, dry.

Pedal free travel: abt. 20 mm (.8").

TRANSMISSION AND DIFFERENTIAL

Four speeds forward (with 2nd, 3rd and 4th gears synchronized) and reverse.

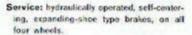
Ratios:

1st	pear			3,3	385	3rd	1	gear	i		1,333
2nd	34	*		2,0	055	4th	1		*		0,856
Revi	erse	3	. 4			V		01.16			4,275
	I drie										8/39

Differential and final drive gears in transmission casing.

Drive to rear wheels by slip-joint, half-axle awing shafts.

BRAKES



Auxiliary: mechanical, hand controlled, operating on rear wheel shoes.

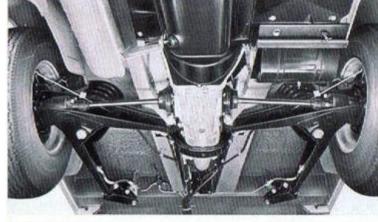
Shoo-to-drum clearance, at heel 0,25 mm (.01")

SUSPENSION

FRONT SUSPENSION

Independent wheels with hydraulic shock absorbers.

Semielliptic spring, transversally mounted, anchored to body in two points through the interposition of rubber pads and at the ends to the kingpin housings.



Rear suspension

REAR SUSPENSION

Independent wheels with coil springs and swinging arms. Hydraulic shock absorbers.

STEERING AND WHEELS

STEERING

WHEELS AND TIRES

Disc wheels, with rims type . . . 3 1/2 x 12" Low pressure, size 5,20-12 tires:

> Michelin S.D.S. or Ceat D.B., Pirelli Sempione or Rolle,

ELECTRIC SYSTEM

Tension 12 volts

GENERATOR

BATTERY

STARTER

FIAT: power 0,5 kW Direct engagement by electromagnet.

FUSES

Six 8-Amps, in a fusebox under instrument panel, to the left of steering post,

BULBS

LOCATION	TYPE	(12 Volts)
- Headlamps high beam	spherical, double filament .	45
Front lamps direction indicators parking lights stop lights parking lights	spherical, double filament .	20 5
- Rear direction indicators	spherical	20
- Number plate lamp	spherical	5
Engine compartment light Rear view mirror lamp	cylindrical	5
Instrument cluster light Direction indicator side repeaters High beam indicator Parking lamps indicator Generator charge indicator Direction indicators pitot light Insufficient oil pressure indicator Fuel reserve indicator Excessive water temperature indicator	, tubular	3

BODY

Integral construction.

Two front-hinged doors, with front swivelling venti-panes and drop windows; safety lock on door opposite driver's seat. Driver's door locked by key.

Fixed-pane back and rear quarter windows.

Front compartment, housing the spare wheel, battery, fuel tank, brake fluid reservoir, windshield washer bottle and a space for luggage.

Engine compartment lid at rear.

Front adjustable, forward-tilting, bucket-type seats, with optional adjustable squabs.

Rear, fixed, bench-type seat with forward-folding back.

Luggage space behind rear seat whose back may be folded over cushion to increase luggage accommodation.

Utility sholl under instrument panel.

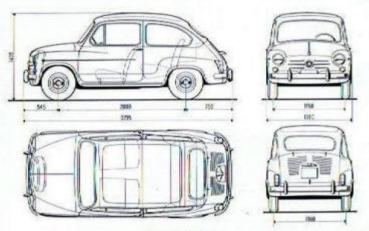
Two pauches on door inner trim panel.

Ashtray at center of facia.

Rear-view mirror with incorporated bulb for car interior illumination by reflection.

Two adjustable sun visors.

Front and rear bumpers with ornaments.



Main dimensions

mm in.	545	750	1150	1160	1360	1405	2000	3295
ie	21.5	29.5	45.3	45,6	54,3	55.3	78.8	129.7

Height is intended with unladen car.

PERFORMANCE

Speeds			Gradients	
Maximum speeds after			Maximum climbable, fully laden:	
running-in (3000 km	km/h	migs.h.		
1800 miles):	9999	0000	- 1st gear	30 %
- 1st gear	30	19	— 2nd *	17 %
- 2nd »	45	28		
- 3rd *	70	44	— 3rd ×	10 %
- 4th w abt.	110	68	- 4th p	5,5 %

WEIGHTS

Curb weight			 		. 605 kg (1330 lbs)
Useful load .		(* * * *) a	 4	persons plus 40	kg (68 lbs) of luggage
Gross weight	(fully lad	len)	 	B. B. P. B. B. B. B. B. B. B.	. 925 kg (2.040 lbs)

46

CONVERTIBLE



Only the special features and characteristics of the «Convertible» (folding top) which differ from those of the Standard «Hard Top» are briefly described here. For all remaining parts, refer to the information given on the foregoing pages.

ROOF

To open the roof, roll back the imitation leather top as follows:

- a) release the two front latches;
- b) pull the top backwards, spread it completely and properly arrange the support bows;



d) secure the roll by the strap inserted under the bracket provided on body.

To clean the top wash with slightly soapy water and a sponge, or even simply with plain water.

DIMENSIONS

.

LUBRICANT CHARACTERISTICS

LUBRICANT	DATA	
Flat Oils for engines (Suppl. 1 lovel, which satisfy MS sequences)	Oils for severe operating conditions are used in their different SAE viscosity grades. SAE designations are given also for x Multigrado » oils.	See the # Fill-up data table #.
Flat Oils for transmissions and axles (MIL-L- 2165 B)	SAE designation is given for the viscosity grade.	See the × Fill-up data table ».
Fiat-Jota 1 Grease (Lithium-base chassis lubricant)	Drap point (Ubbelohde)	min 180° C 310 to 340 mea 10
Fiat-Jota 2/M Grease (Lithium-base, N.L.G.I. No. 3, filled with MoS ₃)	Drop point (Ubbelohde)	min 180° C 265 to 295 min
Flat MR 3 Grease (Lithium-base, N.L.G.I. No. 3)	Drop point (Ubbelohde)	min 180° C 235 to 255 mm nin 160
Special Flat Blue Label fluid (SAE 70 R 3)	Heavy Duty non-mineral grade	-

FILL-UP DATA

ITEM	QUANTITY					******	
	1 N	kg	U.S.	Units	B.G.	Units	REFILL
Fuel tank	27	-	7.13	Gals.	5.94	Gals.	Regular gasoline
Radiator and water jackets .	4,5	800	4.80	Qts.	4.00	Qts.	Water (1)
Sump and filter (*)	3,25	2,9	3.5		2.8		FIAT oil (")
Transmission and differential Steering box	1,5	1,4	1.5	:	1.3	:1	FIAT W 90/M oil (SAE 90 EP)
Beake system , , , , , , , ,	0,28	0,28	.30	*	.25	•	Special FIAT Blue Label fluid or equi- valent HD non-mi- noral grado
Shack absorbers front	0.15	0,135	.16	*	.13	11	FIAT S.A.I. oil
/ rear	0,12	0,11	.13	30	.11	* 1	FIMT S.M.I. OII
Windshield washer	T	(*)	-		-	-	Water and FIAT D.P./ liquid (concentrated solution) or TRICO XAW 30 cleaner.

- (*) When temperature is close to 8°C change to good commercial grade anti-freeze mixtures (See * Safe Motorlog Hints s).
- (*) Total capacity of sump, filter and lines is 3,25 kg (3,70 U.S. Qts. 3,10 G.B. Qts.). The amount tabulated is the requirement for periodical oil changes.
- (*) 0.75 kg pure water plus 0.017 kg (2,26% in weight) (Summer) or 0.034 kg (4.56% in weight) (Winter).
- (1) See following table for grades:

	FIAT Single-grade Oil	FIAT « Multigrado » Oil
TEMPERATURE	Supplement I level oils which satisfy MS sequence requirements	
llelow -15°C (10°F) (minimum)	VS 10 W (SAE 10 W)	-
From 0" to -15° C (32° F to 10° F) (min.)	VS 20 W (SAE 20 W)	10 W - 30
Above 0°C (32°F) (minimum)	VS 30 (SAE 30)	100000
Alsove 30°C (90°F) (average)	VS 40 (SAE 40)	20 W - 40

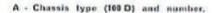
WARNING: Never top up with oils of other grades or Makes - When starting to use these determent oils on engines other than new the hitercotion system must first be thoroughly flushed time + Safe Motoring Hitchics in).

TIME PRESSURES

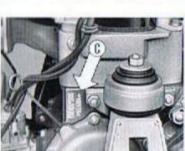
Front lives . . . 1,00 kg/cm² (14.2 p.s.i.) | Rear tires 1,60 kg/cm² (22.8 p.s.i.)

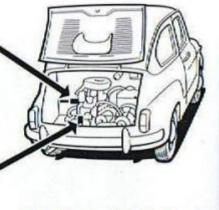
IDENTIFICATION DATA



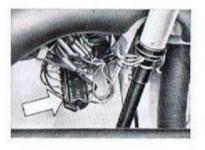


B - Identification plate.





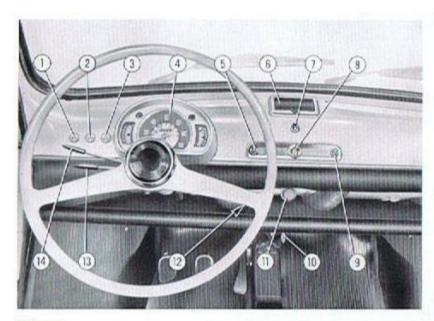
C - Engine type (100D.000) and number.



Fuse box, arranged under instrument panel, to the left of steering post (see pages 38-39).

KEYS

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



LHD cars.

GAUGES AND CONTROLS ON FACIA

- Direction indicators pilot light (green) flashes when lever 13 is moved up or down.
- Parking lights indicator (green)(").
- 3) High beam indicator (blue) (*).



- 4) Instrument cluster, incorporating:
- a) Excessive water temperature indicator (red): lights up when engine overheats.
- b) Generator charge indicator (red): lights up when ignition is turned on and goes out when generator reaches cutting-in speed lengthe speed over 920 rpm; car at 20,5 km/h (12,7 miles) in 4th gear).
- (*) Light intensity is adjustable by turning the

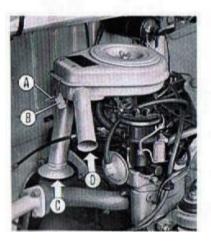
STARTING THE CAR

- a) Declutch.
- b) Engage 1st gear.
- Release hand (auxiliary) brake (press button on grip top and push down).
- Release clutch pedal gradually and at the same time accelerate slowly.
- e) Next, shift up to the higher gears as required.

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) on panel must be OFF. If any one lights up, investigate and remedy accordingly.

WINTER DRIVING



Besides using antifreeze mixtures to ensure adequate engine protection (see Safe Motoring Hints) rotate 120° the butterfly valve lever on cleaner intake duct to exclude the admission of cold air.

- Lever positioned for admission of air warmed up by exhaust manifold.
- B. Lever positioned for normal air admission.
- C. Warm air intake (winter: lever set with wing under reference I).
- D. Normal air intake (summer: lever set with wing under reference E).

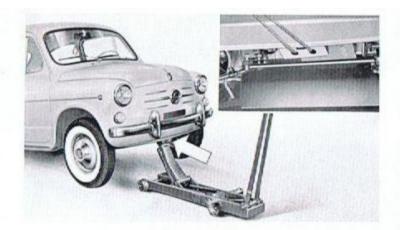


HOW TO CHANGE WHEELS

To do this job properly, proceed as follows:

- a) Place car possibly on level ground and lock rear wheels by the hand brake.
- b) Pry wheel cap off, 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. The wheel location dowel on brake drum must lit into the hole provided in wheel disc.
- Insert wheel liking screws and tighten uniformly in criss-cross sequence.
- g) Lower car and disinsert jack nub. from bracket under floor.
- h) Tighten wheel fixing screws fully and snap on wheel cap firmly.



JACKING UP AND TOWING

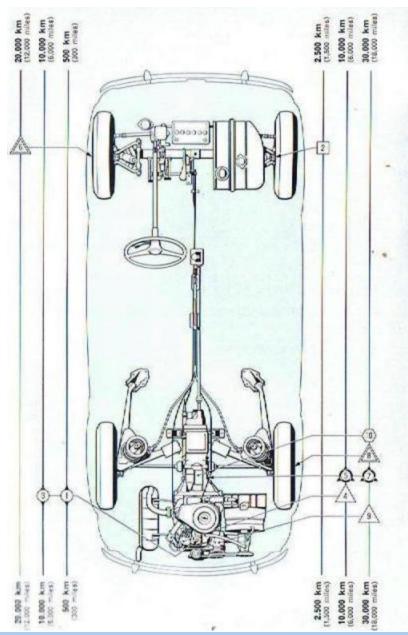
When either the front or rear end of car must be raised with a garage jack, it is indispensable to fit jack head under the special brackets, as shown.

At rear, a wooden block at least 3 cm

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).





LUBRICATION CHART

Every 500 km (300 miles)		
1. Sump	see page	19
Every 2.500 km (1,500 miles)		
2. Kingpins	*	32
Every 10.000 km (6,000 miles)		
3. Sump	14	19
4. Ignition distributor	*	27
5. Transmission and differential	*	29
Every 20.000 km (12,000 miles)		
6. Front wheel bearings		34
— Door hinges		39
Every 30.000 km (18,000 miles)		
7. Transmission and differential		29
8. Rear wheel bearings	36	34
9. Generator		35
10. Starter	.0	35

LUBRICANTS



FIAT engine oil (See "Fill-up Data")

FIAT W 90/M oil



FIAT Jola 1 grease

FIAT Jota 2/M grease

FIAT MR 3 grease

CLEANING, INSPECTION AND ADJUSTMENT CHART

Every 500 km (300 miles)		
1. Water radiator see	page	26
2. Tites	è	34
Every 2.500 km (1,500 miles)		
3. Battery	10	35
Every 10,000 km (6,000 miles)		
4. By-pass oil filter	25	19
5. Valve tappet clearance	10	24
6. Air cleaner	10	25
7. Carburetor	19	25
8. Ignition distributor	30.	27
9. Spark plugs	20	28
10. Brake fluid reservoir	10	29
11. Battery		35
- Road test		40
Every 20.000 km (12,000 miles)		
12. Front wheel bearings	n	34
- Mechanical units anchoring to body	29	39
Every 30.000 km (18,000 miles)		
13. Rear wheel bearings		34
14. Generator	*	35
15. Starter		35

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 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 front compartment rubber mat D and unscrew the two hold-down knobs A of cover B.

To check electrolyte level just remove lid C.

If car must be garaged for a considerable time see a Safe Motoring Hints o.

Generator



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 drive end ball bearing with FIAT MR 3 grease. Finally, pull out the lubricator wick, soak with thick oil and refit in place. Pack greaser cap with FIAT MR 3 grease before refitting.

Starter



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 some FIAT Jota 2 M grease.

Generator regulator



No tampering with this unit stavice by unauthorized personnel

should be permitted. Owners should have the unit overhauled exclusively at a FIAT Service Station.

If a radio is fitted on the car, do not insert any interference suppression condenser between terminal No. 67 and ground, either of regulator or generator, since this would cause a rapid wear of the contacts of the unit which normally is not a source of radio interference.

Furthermore, never interchange terminals No. 67 and No. 51 or else the regulator would be irreparably damaged.

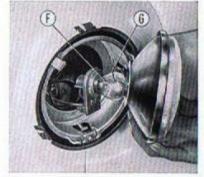
Headlamps

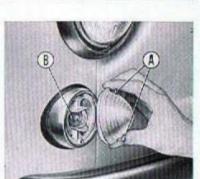
Remove the frame pressure-mounted on the three spring fasteners A. Push outwards spring B and free the optical unit from the two retainer catches C. (See page 36). To replace bulb F, lift spring fastener G and pull out the bulb holder. The bulb is of the bayonetcoupled type.

Front parking and direction

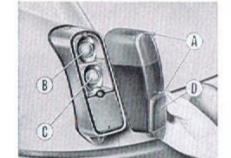
indicator lamps

A. Lens mounting screw. B. Bayonet-coupled bulb.



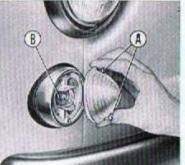






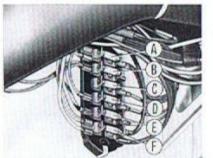
Number plate lamp

- A. Lens and light cap mounting screws.
- B. Lens.



Direction indicator side repeaters

To replace the bulb take off the rubber boot and bulb holder, operating from inside the fender.



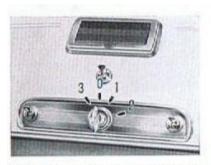
Rear parking, stop and direction indicator lamps

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

Fuses

Six, 8-Amp, fuses in a box under instrument panel. Before replacing a burnt fuse trace the cause of blowing, and remedy accordingly.

Unprotected circuits: battery charge with generator charge indicator, ignition, starting, insufficient oil pressure indicator, fuel level gauge and relevant reserve indicator, and excessive water temperature indicator.



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

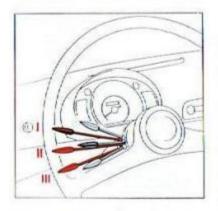
Position 1: ignition ON and services energized.

Position 2: starter ON.

Position 3: parking and number plate lights ON, with switch 7, page 10, ON and outer lighting change-over switch lever 14 in position I (key can be pulled out).

Note - With engine inoperative never leave key in position 1. In this position, the switch controls ignition and starting, and energizes the following circuits:

feet fevel gauge and reserve indicator; generator charge indicator; insufficient all pressure indicator; excessive water temperature indicator; direction indicators and pilot light; rear atop lamps; head-lamps (high beams, few beams and fisshes) high beam indicator; number plate kemp; engine compartment light; instrument cluster light; medicatelial wiper.



- Windshield wiper switch with automatic blade parking.
- Ring grab control: pull to admit warm air into car.
- 11) Windshield washer pump: to wash the windshield depress several times the rubber bulb, at the same time turning on the windshield wiper switch (9).
- 12) Hand accelerator (throttle).
- 13) Direction indicators control lever:

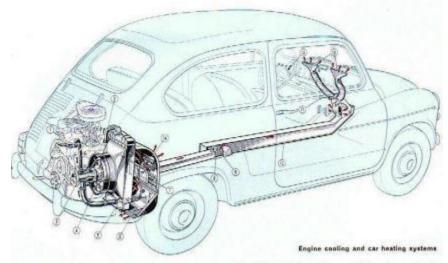
D - right turn.

S - left turn.

The lever returns automatically to OFF position when steering wheel is back to straightahead drive position.

- 14) Outerlighting change-overswitch lever (operative with switch 7, page 10, turned on):
 - I: number plate lamp, front and rear parking lamps;
 - II: number plate lamp, front and rear parking lamps and headlamp low beams;
 - III: number plate lamp, front and rear parking lamps and headlamp high beams.

In position I and III, by tripping the lever toward the steering wheel flashing of headlamp low beams is obtained. With switch 7 OFF the low beam flashes can be obtained with lever in any of the three positions.



 Thermostatic control for excessive water temperature indicator -2. Water outlet pipe from cylinders -3. Water purp -6. Fah. 5. Thermostet, shutter control -6. Shutter, sir direft control in engine compantment -1. Sattle in own pasition (warm sir enters car) -8. Bailte control lever - 9. Warm sir

filter - 16. Longitudinal warm air conveyor - 11. Ring grab, warm sir outlet swittes control - 12. Officers sending warm air egenet windshield - 13. Brossesse water temperature indicator - 14. Shutter, for warm air retression through leggage space behind rear sext.

CONSULTING THE CHARTS

The periodical maintenance operations recommended in relation to given mileages, are listed in two charts covering respectively the lubrication points and 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 a set of symbols indicates the grade of lubricant to be used. For oils 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

Sump

Every 500 km (300 miles): check oil level which must always result between Min and Max marks on indicator rod and top up if required.

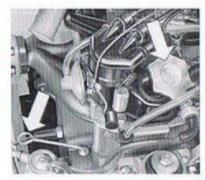
Every 10.000 km (6,000 miles) or 6 months, whichever occurs first: replace oil with warm engine,

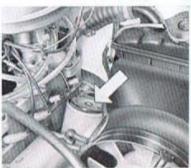
When engine is new replace oil after the first 1000-1300 miles and 2500-3500 miles - operation covered by Coupons A and B of the Service Certificate.

By-pass oil filter

Every 10,000 km (6,000 miles): replace cartridge i.e. at every oil change.

Never run engine when cartridge is not in filter.





Cartifogal oil filler

Discountie and cines the filter may entry sety when presenting with a proper to harmon bosses,

VALVE GEAR

Valve tappet cleanance

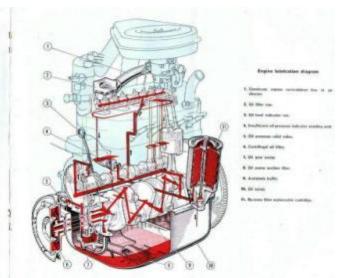
Every 10,000 km (6,000 miles); or whenover higged appraises becomes noisy, dwdx salse tappet elemanic: specified charmes, with sold engine, is 0,55 mm (106') best for intege and estimate school. Wises progless in race, whech wive toppet elements after the less 000-100 and 2000-3001 miles - opmetical control by Congress A and B of the Service Certificate.

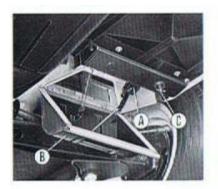
Valve filming

With reference morte time; ag as above tirring to exercise.



Torong chects, if recession should be performed by a Starover Steener



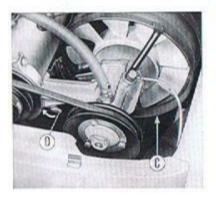


COOLING SYSTEM

Water radiator

Every 500 km (300 miles): check water level, and if necessary, top up.

When ambient temperature is close to 0° C replace the water with an antifreeze mixture (See « Safe Motoring Hints »).



Should topping up be required more frequently than recommended, causes generally are:

- Faulty radiator steam vent valve.
- Leaky hoses.
- Inadequate tightness of water pump inner seals, causing leakages through drain holes in pump body and cover.
- Slack generator, water pump and fan drive belts.
- Operation of thermostat A installed in radiator lower tank, which is adjusted to open gradually shutter B.

Caution - In case of faulty operation of thermostat A or its linkage whereby shutter B does not open at the specified temperature or remains stuck, resulting in cooling water overheating (signalled by indicator a, page 10) air circulation within engine compartment can be obtained just the same by pulling the shutter wide open manually.



Since under this condition the shutter will stay permanently open. drive car to the nearest FIAT

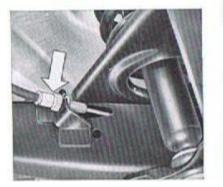
Service Station for the necessary thermostat. check up.

To drain cooling system: unscrew engine drain cock D and radiator drain cack C some turns.

To refill, close drain cocks, bring water in engine radiator to max level, run engine for some minutes at idling speed and then top up once more.

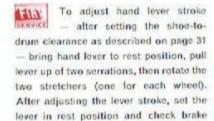
- Immerse the hose other end in a transparent vessel partially filled with brake fluid.
- Pump pedal repeatedly and slowly, and watch the fluid running out of hose into vassel; stop pumping when fluid issues in a solid stream without bubbles.
- While keeping brake pedal depressed, tighten bleeder connection and remove bleeder hose. Clean connection tip of any fluid.
- Repeat bleeding operation on each wheel cylinder, 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 has been filtered very carefully.



Auxiliary brake

shoe clearance again.



SUSPENSIONS

Kingpins

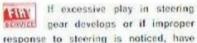
Every 2.500 km (1,500 miles): inject some FIAT Jota 1 grease in lubricator on top of each pin housing.

Hydraulic shock absorbers

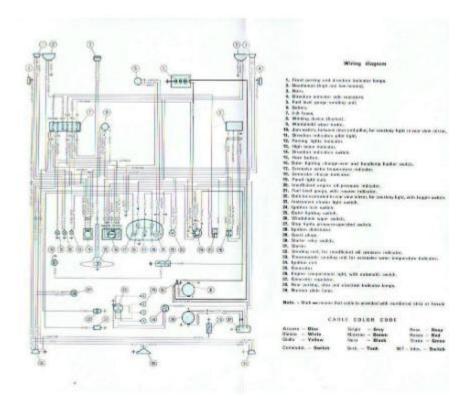
Whenever dampening action scavicel becomes irregular have shock absorbers inspected at a FIAT Service Station.

STEERING AND WHEELS

Steering gear adjustments



INDHOLDSFORTEGNELSE



FUSE	PROTECTED CIRCUITS
A - Fuse No. 30	- Horn - Lamp in rear view mirror
* B - Fuse No. 15/54	Direction indicators and pilot light Instrument cluster light Stop lights Windshield wiper
* C - Fuse No. 56/b2	- Right headlamp low beam
* D - Fuse No. 56/b1	- Left headlamp low beam
* E - Fuse No. 30/3	Left headlamp high beam High beam indicator Front right parking lamp Rear left parking light Engine compartment light
* F - Fuse No. 30/2	Right headlamp high beam Front left parking lamp Parking lamps indicator Rear right parking light Number plate lamp

^{*} With ignition ON.

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 nottle 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 jet misorientation 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 relighten the screw.

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

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