Instruction Manual



KARIMANN Yhia



INSTRUCTION MANUAL

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No are sure that the excellent performance and economical operation of your Coupé or Cabriolet will justify the confidence you have placed in our firm when purchasing this car.

This manual sets out in full the information necessary for the proper aperation, care and general maintenance of your car. In addition, interesting specification details have been included to familiarize you with the construction and mechanical details of this fine piece of mechanical.

No affort has been spared to produce an efficient and reliable automobile. This Instruction Marriad can help you obtain long-time satisfaction in the operation of your car. All information contained in this handbook is based on the actual experience of many years.

In order to maintain maximum efficiency, we particularly stress the importance of following the recommendations set out in this manual. The intimate knowledge obtained by studying this manual will assure you of the utmost service and saltisfaction from your Karmann-Ohio Coupé er Cabriolet.

Regides otherline to preser behrication and sociatenesses of your ora is important. An extensive network of VW Dealess exists throughout the work, and you will readily recognize such solitons by the feasilise blue VW SERVICE sign. These Dealess are in constant contest with the Volkswagenesser, though our fact the episieers, this providing skill and footbry-afficiency on any job from a tire change to a compiler ownhout. You'll neight presery more miss all thougher desired to though the second of the preserved of

gissers, thus providing skill and factory-efficiency on any job from a tire dunage to a complete overhout. Vorull enjoy many mare miles of trouble-free driving by giving your car just ardinary care. All experienced car owners know the valve of preventive maintenance. The efforts in regard to care and maintenance will be amply rewarded in the long rus.

And now enjoy your cor!

VOLKSWAGENWERK GMB

CONTROLS AND INSTRUMENTS



The first thing you must do is become familiar with the controls and instruments of your new cor. Sit behind the wheel, make yourself comfortable, and get acquainte with all the various levers, switches, and controls. Some of the features you may

with all the vario	us levers, switches, and controls. Some of the features you m eck your present knowledge against this complete list.
Instruments:	Speedometer and adometer
	Warning light - Blue - Headlight high beam
	Warning light - Oreen - Low oil pressure
	Warning light — Red — Direction indicators
	Warning light - Red - Generator and cooling system
	Clack (electrically driven)
	Fuel gauge
Foot controls:	Headlight dimmer switch
	Broke pedal
	Accelerator pedal
	Clutch pedal
Hand controls:	Headlight and instrument light switch
	Windshield wiper switch
	Choke control
	Combined ignition and starting switch
	Fresh pir ventilator control
	Clark reset knob
	Fuel top
	Gear lever
	Hand broke lever
	Healing control
	Horn ring
	Direction indicator lever and light signal
	Front hood lack control
	Window regulator handle
	Inside door handle
	Steering wheel

Among the papers which accompany your car you will find details regarding the model, year of construction, and chassis and engine numbers. The Police or Traffic Department will chack if the information given in the documents is identical with find an year car.



The Identification Plate

is found to the right of the spare wheel underneath the front hood.



The Chassis Number

is stamped on the frame tunnel underneath the emergency seats.



The Engine Number

is stamped on the generator support.

- 1

Only one key is required to unlock the door, turn on the Ignilion, and operate the starting motor. It is advisable to record the key number, so that you can order duplicates from Yayr. Yay Geoler, should your late or mislanter, your keys.

To open the door, press the button in the handle.

OPERATING INSTRUCTIONS

Before you drive away please check

- engine oil level
- lan belt tension
- quantity of fuel in the tank
- tire pressures
 - efficiency of brakes
- adjustment of rear view mirrors

and, if driving at night or in foa

b the exterior lights



Engine Oil Level

The oil level should be desided with the engine of rest. The oil level is solidatory when it is believen the too morks on the oil level in solidatory when it is believen the ten morks on the oil level dispitch, but it sheld never be oil level dispitch, but it sheld never be officed to the oil level dispitch to improve their holdstanding impedients to improve their holdstandings impedients to improve their holdstandings publicate the oil level of the oil level oil level dispitch to improve their holdstandings behave differently when used on engine behave differently when used on engine more consistent of the oil level oil level to the oil level oil

Select an HD oil (for Service MS) from wellknown and dependable brands right at the beginning, and stick to it!

Eco Bell

The V-belt drives the generator and the fan. Perfect condition and carrect tension of the belt insize its long life and adequate cooling of the engine. Checking is a very simple: The belt, when present with the future to mid-point, should yield approximately 15 mm (4%). If you find any sign of excessive wear, such as frayed endors, see your VW basiler.



Fuel Tank

The took has a expectly of 40 libers (fol. 6.4.5, spil. 8.4 lamp, spil.), wolfclied for a drive of well over 200 kinemeter (100 miles). Under amend conflictions, the text law particular to the set of position "1", while the car is in the second of the se



Positions of feel top: 1 - Open, 2 - Reserve, 3 - Shot off.

It is important to re-set the top to position "1" when refilling the tank, otherwise there will be danger of running out of fuel on the rood. The fuel supply is shut off when the lever is set holf way (45°) between the two end positions.

The design of the VW Engine allows an operation on all proven trade-mark fuels. Trade-mark fuels, including gasoline-benzal blends, comprise such characteristics as constant physical properties, sufficient anti-knock qualities and freedom from objectionable constituents.

The selection of a grade and brand of fuel is therefore left entirely to your

The Tires

deserve and require your special attention. The riding comfort and the roadholding of your car will greatly depend on their condition.

Maintaining correct lire pressure and avaiding driving abuses are the most important factors in obtaining maximum tire life. Make sure the tires are correctly inflated, at least once a week, using a reliable line aguae.



Pressures:

When driving fast or for a long period of time, keep the pressure in the front tires at 1.2 kg/sq. cm. (17 lbs/sq. in.), and in the rear tires at . . . 1.6 kg/sq. cm.

When the car carries 1 or 2
persons, keep the pressure
in the front tires of 1.1 kg./sq. cm.

(16 lbs/rg, in),
and in the rear tires at 1.4 kg/sg, in),
(20 lbs/rg, in),
With the car fully loaded,
keep the pressure
in the trant tires at 1.2 kg/sg, cm,
(17 lbs/rg, in),
and in the rear tires at 1.4 kg/sg, cm,

(23 lbs/sq. in.).

Starting the Engine

the various confrols and instruments. However, make sure that the gear lever is in neutral position before starting the engine.

The ignition kay starting enables you to start the engine by merely truning the key. First the ignition is switched on by turning the key to the right. The red generator warring light and the green light for the oil pressure will light up. To start the engites, the key is pressed against a spring load and turther terned clockwise until the starting motor operates. As soon on the engine ties, reduces pressure on key to engine ties, reduces pressure on key to



The Brakes

should be checked before the car starts on a trip by depressing the broke pedal, while the car is in motion, to be sure they are in good working order.

Good Exterior Lights

are the first requirement of safe car operation at night. The three positions of the lighting switch are as follows:

1 - Fully numbed in - Off

2 - Pulled out to first stop — Parking light,

tail and license plate lights

3 - Fully pulled out — Headlight high or low beams

3 - Fully pulled out — Headlight high or low beams (depending on position of foot dimmer switch), tail and license plate lights.

When pulling out the lighting switch knobe either to the first or second stop, the instrument light is outsomatically served on. By terming the shoot, a vorsible degree of instrument lighting is obtained, furning the knob to the extense left turns out the light entirely. When chealing the lighting system, do not forget the two stop lights which should light up when depressing the brake pedal with the ignition turned on.

Important

In cold weather the transmission oil is out to become congeoled. It is, therefore, good prouffice to deductiful until the angies storts. They you will sover the bottery and facilitate the operation of the storting motor. You will never encounter any officialised sinks when storting your engines in the coldest weather, if you observe the rule of using the specified light grade engine and transmission oils.

To start cold engine.

pull out the chake control knob and operate the starting motor until the engine

In severe frost, it is recommended to proceed as follows:

- rere frost, it is recommended to proceed as follows: 1 - Slightly depress the accelerator pedal several times.
- 2 Fully pull out the choke control knob.
- 4 Turn on the ignition and operate the starting motor.

Do not accelerate when storting with the choke pulled out!

As soon as the engine starts, slowly push in choke control knob (about half wav) until the engine runs smoothly and evenly at fast idle speed without a tendency to stall (it is leadylookle to race the engine immediately on starting up from cold). This position of the choke control knob permits a quick moving off without any detriment to the engine. Neither will harm be done to the engine when you drive for a longer period in dense city traffic with the chake pulled out half way.

As the engine attains operating temperature, you will notice an increase in the idlies speed. At the same time gradually push the choke control knob all the way in. This position must be reached before you make use of the full engine power on

If the engine does not start within ten seconds, just repeat the procedure a few times, allowing a short interval between each successive attempt, as the battery is being strained heavily by continuous starting motor operation. However, do not interrupt starting procedure if some ignitions can already be heard without the engine starting immediately.

To start warm engine,

do not null the choke control knob.

Slowly depress accelerator pedal while letting the starting motor operate. Do not pump the occelerator padal.

It is important to know that pumping the accelerator pedal makes a starting of the warm engine difficult and increases the feel consumption.

Caution

Be careful when starting the engine inside your parage. See to it that the dear and windows are onen so that the exhaust furnes can escape. They contain the colorless, tasteless and odorless, yet extremely poisonous carbon monoxide gas.

Driving Off

- is extremely easy if you observe the following:
- 1 Press down the chitch needs as far as nossible. Keen it in that position.
- 2 Shift to the first gear. Release the hand brake.
- 3 Engage the clutch by gently removing your foot from the pedal, while simultaneously pressing down the accelerator pedal. The car will start to move ahead.
- 4 Gradually increase the pressure on the accelerator pedal and remove your foot completely from the clutch pedal, as the clutch is now fully engaged.

Shifting to second gear is equally simple:

- 1 Take your foot off the accelerator pedal. while simultaneously pressing down the clutch nedal.
- 2 Shift gear lever into second position.
- 3 Engage the clutch by taking your foot off the nedal neatly and aradvally and apple step on the accelerator pedal.



You now know how to "shift gears", and may at will shift to third and fourth positions. You will have noticed by now that the accelerator and clutch pedals are onessted significancially, but in apposite directions. It is the coordination of these simultaneous operations that belong skill in shifting opera-

The reverse gear

has a lacking device against unintentional shifting. Therefore, first press down the gear lever vertically, move it to the left and pull it rearward.

Shifting to Lower Gear

- This is what you should do in close city traffic, or with sharp turns ahead of you. or when driving uphills
 - 1 Release accelerator pedal and depress clutch pedal.
 - 2 . Shift to 3rd or 2nd monr respectively.
 - 3 Release clutch medal and sten on accelerator nadel simultaneously.
- Of course, this ones much more quickly in actual energies than by describing it here. We do not want to bore you with a technical discourse, but it may be of interest to you to know that, when changing down, the synchromesh device assures meshing of the nears without closh, as the lower near is syndronized so that both cases are turning at the same speed. Under no circumstances should you be alraid to shift to lower agar, or try to avoid shifting occasionally by marely letting the clutch "slip" in a partly disensed position.
- When shifting mages, it is obsolutely parassony to fully damest the clutch medal. Incomplete declutching makes over shifting difficult and leads to could wear of the synchronizer stop rings.

In order to save transmission and engine from damage shift down from

4th to 3rd between 47 and 25 m. p. h. 3rd to 2rd between 31 and 15 m. p. h.

The first gear is not provided with a synchronizing device, as the main drive shaft normally is not turning when the car is shifted into first.

Should it become necessary to shift from second to first, the two cogwheels of the lower gear should be brought to the same ratio of speed by momentarily depressing the occelerator pedal with the gear lever in neutral position to insure on easy and signed engoging of the agent. This is done as follows:

- 1 Release accelerator pedal and depress clutch pedal.
- 2 Place gear lever in neutral position.
- 3 Release clutch pedal and depress accelerator pedal at the same time. The amount of this intermediate feeding of gas depends on the speed of the car.
- 4 Depress clutch pedal and shift to first gear.
 5 Release clutch pedal steadily and at the same time step on accelerator

Wait until the car is at a dead stop before enaming reverse.

Do not use the clutch pedal as a foot-rest while driving your car.

Apply the brakes gently

nedal

The broke responds even to the slightest foot pressure. Increasing pressure will slow the cor down progressively. However, avoid blocking the wheels. Blocked wheels will not shorten the braking distance but may cause you to lose control over the movement of the which can will find the last not houseable.

Here are a few rules on correct braking:

Use your brakes before, not while making a turn.

It is neither good practice nor is it economical to shift to a lower gear for ahead of a turn. Do not hesitate to use the brokes and to shift only shortly before entering the curve so that you may already excelented again, while still respections in it.

To jam on the brokes suddenly can only be justified when danger in abrod. Nevertheless, it is necessary to check full broking capacity of cardini intervals as that you will be familiar with the behaviour of the cor and with the actual broking distance should sudden broking become necessary, Before carrying out the test, look in the rear view mirror to make sure that you will not endonger any vehicle that

Operate the brakes especially gently when the road is wet or covered with ice.
Sudden braking of the wheels will result in skidding of the cor.

When driving downhill, make use of the braking capacity of the engine compression by shifting to that quar which you would use in driving uphill.

You will sove and preserve the brakes if you use them only to control the speed occasionally, and at the same time you will attain a higher degree of safety. The lamition must mark the same time you will attain a higher degree of safety. The lamition must mark the safety all when descending another.

Stopping the Car

Take your laat of the accelerator pedal and aperate the brakes gently. Shortly before the car comes to a full stop, depress the clutch pedal, place the gearshift lever in neutral position and release clutch pedal again. The engine continues to idle.

If you wish to turn off the engine, merely switch the ignition key to the left.

The Front Soute

ollow an adjustment to suit individual requirements. Merely raise the adjusting lever and slide the seat either backward or forward to the most convenient position. The seat rises as it moves forward, permitting sheet persons to sit blanker.



1 - normal 2 - rearward 3 - forward



The rake of the front seat backs is adjustable by turning a lever for the three different positions.

Emergency Seats

The bench seat behind the front seats is for children or can serve as an emergency seat. The bench seat back is held in the normal position by a rubber strap. When terned forward the back adds to the laggage platform area.



1 - off

The Fresh-Air Ventilation

will prove very efficient during hat weather. Fresh air is guided into the interior through the two defroster vents at the windshield. The oir flows of the two ventilators can be controlled separately by the levers below the instrument panel.



By turning on heating and ventilators at the same time, temperature can be additionally regulated by ventilator openings.



Direction Indicator Lever

Direction indicator and light signal are operated by the lever on the

left under the steering wheel:

1 - Lever up — Turn to the right

2 - Lever down — Turn to the left

3 - Lift toward steering column — Light signal

The direction indicators are selfcancelling.

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The Interior Lamp

the doors open

is automatically operated by opening or closing either of the doors. As an added convenience, the lamp may be operated by the manual three-position switch incorporated in the lamp fitting. Positions of switch:

> Upper Intermediate - Off

- Door contacts This allows the light to be turned off with

In the Cabriolet, the push button switch for the interior lighting is arranged below the instrument name! The light is always on as long as a door is opened. With all doors closed, it is turned on by means of the push button switch.





The Ash Receiver

in the instrument panel can be completely lifted out of its housing for emptying





The Clock

is electrically driven. Should it become necessary to reset the clock push in the knob in the center of the dial and turn to correct the time.

The Front Hood Lock is released when pulling at the knob below the instrument panel. Then push back the safety catch to open the hood. The safety catch is to prevent the hood from opening while the car is in motion, if the hood becomes accidentally unlocked.





In the Cabriolet, the knob can be lacked so that spare wheel, fuel and luggage are protected against theft even when the Cabriolet top is open.

Onen the lack before pulling out the knob. Immediately after pulling the knob, turn the key (the same as used for the door and ignition lock) to the left and remove it. Lock and safety lock will then catch again when the front hood is being closed. A special key is provided for the glove box safety lock.

The lack

is secured in position in front of the spare wheel by means of a quick release clamping strap. Also accommodated under the front hood are the tools and the spare fan belt.



The Rear Hond Lock

is released when pulling at the knob below the emergency seat bench. Balance springs hold the hood in the open position. To lock, lower hood and press down on rear end.



5 - Polegrad 2 - Locked

The Cabriolet Top

can easily be lowered and raised by one person. The service life of the top largely depends on the way the top is lowered and raised. That is why we would like to stress particularly the importance of following the recommendations listed below.





To Lower the Top

- 1 Fold rotary handle all the way down.
- 2 Release Cabriolet top lock by turning rotary handle through 360° to the right. 3 . Lift ton at the handles.
- 4 Press rear view window down evenly and fold the top back.
- 5 Press the Cabriolet top linkage down until the springloaded catches on the left and right engage in the respective slots.



6 - Fasten the top boot by means of the spring-

To raise the top

- 7 Unsnap the fasteners by pulling the outer spring-loaded half and remove the boot. 8 - Press the linkage down and disengage the catches on the left and right.
- 9 Raise the ton-
- 10 Pull the top down at both handles until the two header guides have entered the channels above the windshield frame.
- 11 Lock the top in position by turning the retary handle through 360° to the left.





PRACTICAL DRIVING

Breaking-in (running-in) period

1st gear 0

does not imply inconvenience as your car needs no "breaking-in." Progressive refinements have raised the VW engine

to its present predominant position and it is these refinements which allow an amission of breaking-in instructions. Your car may be operated right from the beginning at the full speeds recommended for the gears:



2nd mean 6 (10) - 30 m. p. h. (50 km. p. h.) 3rd near 15 (25) - 45 m. p. h. 175 km. p. h.) Top gear 25 [40] - 72 m.p.h. [115 km.p.h.] For easy reference you will find the upper speed limits for the gears marked in red Roman numerals on the

-15 m. p. h. (25 km. p. h.)

The life of your car, its performance, and its operation will depend on your driving habit.

Maximum satisfaction in the running of your car will be assured by following the fundamental rules for driving an automobile:





Don't think that your engine will be saved and preserved most when it is operated at low speeds. You won't reduce the fuel consumption either. The VW engine requires air for cooling, which it gets when it is running fast enough. It is overloading and overheating (coursed by folling helpy the lower speed limits) that is harmful to the engine, but never high speed operation.





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When driving uphill

always change gear as soon as the speed drops and the speedometer hand approaches the upper speed limit of the next lower gear. Never allow the engine to labor in 4^{th} gear, which is nearly an overdrive, and still expect it to pick up speed on feeding more gas.

Economical operation

is one of the outstanding features of your car. However, getting a few extra miles from each gallon depends on the manner in which you handle the car and shift the agents.

When accelerating.

step on the accelerator pedal slowly and only to such an extent as is necessary for reaching the desired speed. Depressing the accelerator pedal rapidly does not

Do not "pump" the accelerator pedal

unless circumstances require it. Even the small quantity of fuel additionally discharged by the accelerator pump each time the accelerator pedal is depressed results in a marked increase in the averall fuel consumption.

Operate your car smoothly and flexibly,

both when driving in city traffic and an main roads. Adopt the speed of the car to prevailing road and traffic conditions. A good driver accelerates the car gradually, slows down in time, and utilizes the bucking power of the engine. Make use of the full acceleration capacity and the excellent backes of your car only when you really need it.

How to drive at high speed without sacrificing fuel economy

When you have accelerated the car to the desired speed, slowly let the accelerator pedal return to the position which just maintains this speed. This practice is especially economical when driving on highways.

Parhaps you are aware of the fact that air resistance is an abstacle for all highspeed vehicles. Due to the simple and sweeping lines of your cer, air resistance is relatively low, but if should be remembered that high road speed always invalues a greater fuel conversition.

Watch the Pond

closely while driving. As to using the various levers, switches and controls, you now are able to operate them automatically. Furthermore, your car on its own accord will "tell" you when it needs attention.

Direction Indicators Red Light -

The flashing direction indicators lie outside the driver's view. However, the red light will show when the indicators are tweed on. The direction indicators witch can be operated without taking the hand off the steering wheel.

Generator and Cooling

ore controlled simultaneously by a red light. The light when the lightline is turned on and when the opplier is means at low speed. The light should go out as speed is increased tow speed. The light should go out as speed is increased. Ca u i i an if if the red light spees on while you are driving that car, the fan belt may be broken. Bring your car to a stop, are due out what is wrong, for when the belt is broken, the cooling to distributed and the ameration no longer character.

Oil Pressure

The oil pressure of your car is as important as the oil level, which you have already checked. When the ignition is turned on, the Oreen Oil Pressure Light will go on. The light should go out when the engine is started and the oil pressure increases.

C a u i i o n i if the green light goes on with the engine running, the chances are that the oil circulation has been interrupted, which means that the lubrication of the engine has ceased. Stap at once and check the level of the oil before you coassif a Service Station. An occasional flashing of the lamp with the engine warm and at law speed does not indicate travalle. If the laid nose off again to you consider and indicate travalle. If the laid nose off again

as the speed increases. Headlights

The high beam of your headlights throws glare into the eyes of accoming drivers. You know youself how unpleasant and dangerous this is. For this resion, be considerable The blue light will fell you when the high beam is switched on. Just step on the climner width to transfer the headlights from high to law beam.

Blue Light

Safety First

Safety for yourself, and safety for others, this is what counts most! Your car "hugs" the road in an escallent way, and does not roll when taking a turn. Your car has an extraordinary capacity for acceleration. Yet, the feeling of security and safety which you will acquire after a few miles should not ferral you to become careless.

Therefore, adjust the speed of your car to the conditions of road, troffic and weather, and always be ready to bring your car to a stop when it is necessary. Be particularly careful when driving on wet or icy roads, for even this excellent car is not to skid when not drives corefully under such conditions.

Rear View Mirrors

By turning the inner mirror to the vertical position an additional adjustment is obtained to suit individual requirements,

Adjust the outer mirror so that you can look rearward alongside the car without having to turn your head or shoulders. You will then get a clear view of the road bahind you.

Passing other Cars

Pass other vehicles with consideration. Always he save that the road is clear observed eyes, and look out for care opposition gove from the opposition desired. A brief look in your rear view mirror will tail you whether another cor is obout to pass you from behind. If you have it shift to lower good, only it leafers, not demay possiting. And here is on-the venning. Never fry to pass a cor when oppossible, a curve, where visites is not clear, and every poss o which of the cost of a curtor of consordal. You never con tail what lies sheed of you'll be fair and do not the control of the control of the control of the control of the lies and others.]

Stopping Your Car Temporarily

When stopping your car in front of a traffic light or railroad crossing, do not wait for free passage with the clotch pedal pressed down and the gear lever in position! Shift to first gear shoulty before moving on again, it will preserve the clutch!

Parking Your Car

in a space between two other cars that are parked at the curb will be fun for you if you heed the following advice:

Stop your car even with the car in front of the space. Turn the steering wheel sharply to the right and back your car slowly into the gap.



When the front bumper of your car is even with the rear bumper of the car ahead of you, furn the steering wheel fully to the left, and back up further toward the rush.



Now turn the steering wheel again to the right and pull up a little bit, until both ands of the car come as close to the curb as possible.



When parking on a steep grade, set the hand brake so as to keep the car from rolling. As a precautionary measure, it is advisable to engage first or reverse gear in addition to the hand brake. And do not lorget to take the key out of the ignition switch before you leave your car!

Do not forget to shut the fuel top when parking on a grade with the rear end of the car downwards. Prior to locking the left-hand door, secure the right door by pushing the inside

Prior to locking the left-hand door, secure the right door by pushing the insid door handle forward.

COLD WEATHER HINTS

In Winter

there are two advantageous features of your car that you will appreciate most:

Air Cooling and Heating

You may suppose your can to hitter call without four:— it air-cooled engine will about po the ready to start for will drive in worm continet, well protected from drotts and free from steel and snow, white a current of worm air will keep your windsheld and rear view window free from condensation and frost, permitting you a clear view. Then increased stees that your car has to stand in winter because of frest and dampains can be easily feed with five you observe the recommendations.

Never attempt to influence the cooling and heating of your car in winter by covering the air intake slots below the rear window.

This would be harmful to the engine, as the drawing in of fresh air for the corburetor and the healing would be seriously affected. The intake of cooling air is



presented in this section.

The Warm Air Heating

of your car can be regulated by a rotary knob situated adjacent to the gear lever: Anti-clackwise — On (1)

Engine Oil

SAE 20 W/20 oil will not congeol at temperatures above $0^{\circ} C$ ($+^{\circ} 32^{\circ} P$) and will permit easy starting of the engine. It, however, the anticipated atmospheric temperature during the interval in which the oil will remain in the crenkcase in below freezing point, it is recommended to use SAE 10 W oil. This grade oil may remain in the engine with solety when the temperature again

rises to a higher range. Should it become necessary to add all is the period between two regular oil changes, SAE 10 W oil may be used at losting frost and SAE 20 oil when the temperature overage rises. This mans that the grades SAE 10 W and SAE 20 W/20 can be mixed without involving any disadvantages, but be sure to use always the same brand and type of engine oil.

In extremely cold weather, allow the engine to idle for half a minute before driving away to insure correct oil circulation.

Don't race the engine in severe frost to obtain a quick start.

Only if your car is mainly operated for short distances during cold weather it is recommended to have the oil changed at more frequent intervals, say every 2500 km. (1500 miles), using the right HD oil (for Service MS). In the wormer season oil changes, in addition to those laid down in the Lubrication Chart, are unnecessary and uneconemical.

In ferritories where exceptionally low temperatures prevail (below —25° C/ —13° F), it is recommended to use SAE 5 W engine oil, which should be changed every 1500 tem, 600 miles). At the same time (eleon the oil strainer.

Transmission Lubricant

SAE 90 goor lubricant is recommended for use when the average temperature range will not be lower than 0° C (+32° F). However, where the temperature is expected to remain below freezing point for an extended period of time, SAE 80 reads should be used.

The Chassis

is particularly exposed to moisture in winter. For this reason it will be necessary, and only legical, to adhere strictly to antiructions for tubrication. It in addition, you will sproy the bottom of the car with a special chassis oil, as a protection against rusting, you will prolong the life of your car, reducing onto the extent of ice formation of the chassis when the road is well cand the temperature low.

Annually, at the beginning of the cold season, clean and grease the cobles for carburefor, clutch, and healing.

LUBRICATION

The Brokes

of all automobiles are exposed more or less to splashing water that in winter is apt to freeze in the broke drums. Therefore, when parking your car, do not set the hand broke, but shift to first or to reverse gear.

At the beginning of the cold season, the conduit tubes of the brake cables should be thoroughly lubricated with anti-freeze lubrication greate. Do not use just any consubsticant but and the right one of any VM Dealer.

Tires

Worn off fires are apt to cause trouble in winter. To assure a sofe operation, replace them in fittee. To meet the special requirements in winter, so-called M+5 littles are availables. These special-read fires are desligned to give a better give on stud and snow. They are either used on the rear wheels only or on all four wheels. However, during the rest of the yeary our should rather use the usual lites.

Non-Skid Chains

You will need non-skid chains only when the roads are covered with snow or ice. Without such chains, the rear wheels of your car are opt to spin, and applying the brokes may result in the car skidding. Have the non-skid chains adjusted to the wheels. If you wish to avoid loss of time and inconveniences later and

When driving on long stretches that are free from snow, the chains should be removed to prevent excessive wear of both chains and tires.

The Battery

is under greefer stein in winter them in womer seatons because of the increased consumption of current when storting the engine and using the light of lies delicated to the construction of the construction of the line of the construction of lies delicated the lies of the construction of many construction of the construction of

Spark Plugs

will old cold starting substantially in extremely cold weather when reducing their gops to 0.4 — 0.5 mm, (.016" — .02").

When seasonal femperatures rise, or when the car is to be driven in areas where higher atmospheric temperatures are encountered, reset the spark plugs to their normal gaps of 0.6—0.7 ms. (0.12" —0.22").

Proper Lubrication is of Vital Importance to Your Car

The extra time spent in following these recommendations will be amply reworded in the long run by your car's efficient performance. It is up to you to mointain the standard of safety offered by your vehicle, and to insure the long life and cood service which you have the right to expect from this truly economical car!

To lubricate correctly means to lubricate amply and at prescribed intervals!

Therefore, do not shy at the work connected with the regular lubrication service. A Lubrication Chart can be found on page 73, indicating the respective mileages at which to lubricate.

The Service Booklet makes it possible for you to have your car lubricated at a VW Dealer's by skilled hands, with the best available lubricants, at lowest cost and in a minimum of time. You really consent afford to miss this appointuity!

Engine Oil Change

Regular oil changes are necessary even if the very best trademark oils are used. Diluted and dirty oil in your engine simply means a gender strain and a shorter period of life for your engine. On the other hand, provided that HD oil is used, it is unnecessary and uneconamical to change the oil more frequently than called for in the Lubrichian Chart! The oil is drained by removing the plug at the bottom of the crankcase. To insure complete draining, it is important that the operation be performed while the enaine is worm. Then screw the plug in again and fishless it.





The engine is refilled with $2^{4/a}$ liters of HD eil (5.3 U.S. pints, 4.4 Imp. pints). A flushing of the engine is unnecessary.

The Oil Strainer

retains foreign matter and should be taken out and cleaned as called for in the Lubrication Chart. The two gaskets should be replaced each time the strainer is removed.





Types of Lubricant and Recommended Usage

The advantages of using a trade-mark HD engine oil (for Service MS) are quite evident.

HD oil it on oil having proved oxidation stability, bearing corrosine preventive properties and delayered-dispersand shoracteristics which and to hold in permonent suspension foreign contaminents which would normally deposit on engine portations are supported by the properties of the product oil changes. The detergent properties of HD oil will make the fests and desire olesedy other as the desired of the product of the product of the product of the product of the detergent properties of HD oil will make the fests and desire olesedy other as the desired of the product of the product of the product of the product of the desired of the product of the fest of the product of the table to the product of the product of the product of the product of the table to the product of the

Additional lubricating agents should not be added to HD oil.

Some More Information on Engine Oils

It is left to your discretion to select an ail from well-known and dependable bronds being of the proper viscosity to usif your seasonal and driving requirements. In cases of doubt, refer to your Authorized VW Dealer who will be glad to help you with your bulbriction problems. It is recommended that you select "your" ail ofready offset the first 500 km. (300 miles) and stick to it of all future service oil changes.

Viscosity of the lubricant is an indication of its resistance to flow at a given temperature. The SAE numbers classify lubricants in terms of viscosity, but with no reference to other disorderistics or proparties.

- AE 30 engine oil is satisfactory in tropical climates where the temperature range will frequently rise phase 30 ° C (86 ° F).
- SAE 20 W/20 engine oil is recommended for use within the mild temperature range from +30°C to 0°C (+86°F to +32°F). It may also be used

anticipated to fall below 0°C (+32°F). It may also be used with

safety, should temperatures rise above freezing point. A change of oil is therefore not recessory until the next regular milegans interval

- with safety, should temperatures temporarily exceed these limits.

 SAE 10 W engine oil is recommended for use if the atmospheric temperature is
- SAE 5 W This extremely light engine oil is for use in arctic climates with temperatures below —25°C (—13°F) only.

In some countries API Classification is applied (API = American Petroleum Institute).

According to this classification, HD oils suitable for the VW engine are referred to an "For Service MS".

Ignition Distributor

The amount of grease at the breaker arm fiber block should be checked and, if necessary, replenished at the specified intervals.

Every 25 000 km. (15 500 miles), apply 2 or 3 draps of all to the felt (wick) in the cam bearing after the rotor is taken all.

Transmission and Differential

Transmission and Transmission and Transmission and Transmission and Transmission and Transmission case and one both lubricosted with the some gave cil. This kind of oil can be could ylidinguided from engine of by its heariest viscosity and distance coloring, and the control of the control o





Then refill with 2 liters (4.2 U.S. pints, 3.5 Imp. pints) of gear oil.

The oil level should be checked in accordance with the Lubrication Chart. Keep the lubricant level somewhat below the edge of the filter hole.

In order to maintain the characteristics of the gear oil, it should not be mixed with any other oil, as the two will not blend

Steering Gear

The steering assembly should be tubricoted with geor oil — \$AE 90 — exclusively, and under no circumstances with grease or any oiler type oil oil. It is accessible through a hand-opening behind the spare wheel. The level of the oil in the steering case should be kept somewhat below the filter plus hole.



Chassis

Proper lubrication of the front asia bearing points is best done by raising the front axia so that the weight is taken off the wheels.

Prior to lubrication, the grease fittings should be cleaned thoroughly with a clean piece of cloth, so as to avoid any dirt or toyelan matter enterina the fittings. The





lip of the grease gue should be pressed into the fitting, whereupon grease should be injected until the excess grease begins to emerge at the edges of the lubrication point. If the car is driven mainly over rough roads, we recommend to lubricate torsion arm links and outer tie rod ends at more frequent intervals, say every 1250 km. 1890 millest.

The Front Wheel Begrings

are sufficiently provided with grease at the factory. The caps on the front wheel hubs must be free from grease.

hubs must be tree from greate.

Al intervals of 25 000 km. (15 000 miles), the front wheel bearings are to be cleaned and repacked with greate as specified in the lubrication than.

Remove the broke drums for this job.

Finally, the front wheel bearings must be adjusted. This operation should, if possible, he carried out by a VW Dealer.

Doors

The door and hood hinges should be ailed at every lubrication service or, even better, once a week, after dust and sail have been removed.

Door cylinder locks should be treated with graphite only. Blow a small quantity of powdered graphite through the key hole. Dip the key into the graphite, insert key and move it back and forth several times.



Window Regulators

The window regulator is occessible for lubrication after the handles, the trim panel and the gleed-in doth lising have been taken off. Press down the excutionan plates, push out the plans and take off the handles. The trim panel is hald by snop fasteners. Gean and joints of the window regulators should be greeced, if fourth encossays refer a leance paried of service.





Cabriolet

The revolving points of the Cabriolet top linkage are to be lubricated with a few drops of oil offer dust and diet have been removed from the lubrication points. Mokes sere that no oil will get an the material of the top listed as this would not only cause spots but would ultimately result in the destruction of the water-repellent rabber also.

Gear Lever

Should the gear lever require lubrication, this can be done with the lever removed. Remove the two screws that althou the lever dome to the frame tunnel and litt off lever, down and spring as a unit. The contact surfaces in lever dome, at stop plate and lever ball socket should be amply provided with universal grease. When installing the stop plate, make sure that the turned-up edge is on the right-hand side.

After installation, make sure the gears engage properly. If necessary, correct position of over lever.





Front Seats

The upper and lower sliding surfaces of the seat runners should be provided with greate. Only a small amount of greate is required to assure easy movement of the seats. Prior to lubrication, wipe off the runners with a rag. To remove, slide the seat slift toward the freat.

WHEELS AND TIRES

Under-inflation or over-inflation are the most common causes for lire failures.
High speed driving and cornering, skidding to a stop and striking curbs or objects on the road waar lires more than many miles of careful driving.

Avoid overloading the car and protect the tires from intense synlight, fuel, or oil.

Normal wear may be kept at a minimum by interchanging wheels and tires including the spare at approximately 5000 km. (1000 miles) intervals. Check tires for damage. Rotate wheels as shown in the illustration.

A drop of oil applied to the wheel mounting bolts facilitates the next wheel change.

To obtain a smooth high speed operation and a long tire life, it is important to have the wheels bolanced statically and dynamically when tubes and fires have been repaired. As after longer running periods the wheels can be out at bolance owing to natural wear of the tires, they should be balanced statically and dynamically every 6000 miles 110.000 km.³



When the fires are being mounted, the red mark on the sidewall should be lined up with the valve to insure better balancing of tube and tire.

Changing Wheels Changing a fire on the road certainty is not pleasant. However, it will be envier

offer you have read these few lines which tell you the correct way. Underneath the front hood, you will find the spare wheel, jack and tool kit.

1 - Set the hand brake securely and black the wheel apposite to the one being removed to prevent the car shifting all the jack.

2 - Grip the square bar of the jack so that the thumb comes to rest on the nose of the upper locking piece. Exert pressure on the nose and slide down the square bar wrill it is stopped by the base plate.

3 - Insert the jack into the square tube below the body sill in front of the rear wing and push down the jack base plate until it makes contact with the around.



- 4 Remove hub con-
 - 5 Loosen wheel bolts by means of the socket wrench before wheel is fully jarked up.
 - 6 Raise jack until tire clears ground.
 - 7 Remove wheel bolts and take off the wheel.
- 8-To install the spare wheel, operate the jack until the five holes in the wheel are nearly lined up with the holes in the broke drum.
 9-First, insert one wheel boil only. Tighten if to such a degree as to allow the wheel
- to be swing around this point by hand until the remaining hotes in the wheal and brake drem coincide.

 10 - Insert the remaining bolts until the counterswik heads are centered in the corresponding recesses of the dis-wheal.
- 11 Tighten all bolts diametrically oppisite in turn.
- 12 Place one end of the jack operating rod between the two noses at the point marked "Os" and apply a light pressure on the opposite end of the rod to lawer the car to the apround. Keep on exerting a pressure on the operating rod to allow the base plate to be pushed up, and remove the lack.
- 13 Make sure that all bolts are tight,
- 14 Install hub cap with a firm blow and make sure that it is tightly seated.





CARE OF THE CAR

Clean and Neat Appearance

To keep the car looking smart and new should be a matter of pride to the driver or owner of the car. We made it the object of our efforts to use a losting point flinish of sparkling lutre. A chemical theotiment protects the body against rost and corrosion and analysis. The point securely to the metal. The finish is of high-quality varihabil result and carefully behaved to obtain the most beautiful shades.

You will realize the importance of the point finish if you consider that it is exposed to the elements; it has to resist sunshine, rain, dust, and dirt. That is why a periodic care of the body is necessary to retard any disintegrating process.

Washing Your Car

Wash your new cor frequently during the first weeks. This practice will be of great advantage to the finish. For washing your car you require a soft spange for the body, a soft brush for the wheels, a sturdy, long-bandled brush for the chassis, and plenty of clear water! For driving the car you need a thompsis.

The chassis and lower part of the body should first be flushed with water, to sock off the dirt, and afterward a brush should be used.

Apply on even sproy of water on the atteiner finish of body and wheels wall it had din is noded off. Do not effice in both off out where for his the variabled surface. Using planty of clear works, aft whould be removed with a sponge, Core should be taken to clean the spronge of their intervals to as to varied scratches an polithed point. There are some approved outs copy and deterprets which greatly interfered to the control of the spronged of the control of the cont

After washing, rub down with a clean chamois to prevent water spots.

Preservation (Waxing)

means to restore to the finish certain substances it has test by exposure to the wordner. As these substances are visibly important to the electricity of the finish, it is necessary to copily a protective worder-epatient cost of war to the body. It is necessary to copily a protective worder-epatient cost of war to the body. The literative cloning effect of the homopor removes this protective cooling so that it should be renewed occordingly. A preservative specialty produced for the finish of your core on be obtained worder the designation "1.199" from your VW



The body should be wexed ofter the list cight or ten weeks and then regularly of individual cight or ten weeks and then regularly of individual cight or ten in the legislative washing, on obeody mentioned. Applying the preservories is quite easy: With a sold bull, spread or this film on the listids, then dish spread or this film on the listids, period or this film on the listid, period the spread or the film of the spread or the film of the listid or of the listid or the listid

Polishing

You should polish your car only if IIs appearance has been insertification or road dust, swilpful and rain a so consequence of launtifications, and if the appearance has been appearance or consequence of the control of the preservoilive no longer readors the original lustre. Avoid the usus of observations or demically harmful products, were if their first population in the control of the contr

Frie to registing the politis, the cor must be weaked and dried constails, position or onlish band terms be suigned off orly. The politis should be suggled with a sail or out behand mere the wigned of the mere as straight horizontal or vertical motion rather than a circular antion. All the mean line of rubbing you will field a slight resistance, which indicates than the inspecients of the politis howes stated in the fact that the adverted tow respective. Now that decades politically coloring to the political po

Never wash or polish the car in sunlight or when the metal is warm.

How to Remove Spots

By a more washing you cannot always remove splashes of tar, oil traces, "boked on" insects, etc. As a matter of principle, such foreign matter should be removed as soon as possible, for if you neglect this rule, permanent damage may result to the finish.

Tar Spots

An unpleasant sight, to be noticed particularly on slight-colored com, one timy for spots which show up on the wings on hold gav when driving on newly transle roots. For splostnes have a fendency to corrode the finish within a whent lines and should be removed immediately when discovered. On the way, you would, how nothing of your disposal but lets, which may be applied with a soft clash. Revenues or largestimate oil may only be used. Alter fish, the threads spots should be weathed with a mild, likeworm toogn-obufuse, and rineed, in order to memore thoras of the changing geart. It is, however, batter to are this preservative shoulders.

are caught especially during the night, in hal weather, by the forward-lacing parts of the car. Once baked on they can hardly be removed with water and spange, but should be treated with lukwarm scap-solution.

Ricoming trees

but more especially lime-frees, in many instances drop tiny quantities of liquids.

Cors that have been parked underneath such frees become "freckled" all over.

These stains, too, can be readily taken off with soop-solution if you do not wait too lane.

A treatment of the cleaned spots with the preservative is strongly recommended.

Care of the Cabriolet Top

The appearance and life of the top greatly depends on proper care and main-

The top must always be perfectly dry before lowering it. After having driven the car on dusty roads, slightly beat out the top and brush the fabric in line with the lay of the thread by means of a soft brush as the sharp foreign particles harm the

Damage due to friction may occur when the lowered top is not tightly held in position by the catches which engage in the slots cut in the side rails. In such cases, the catches should be screwed further into their retainers. To do this, the lock nuts have to be located before and tighteen date, the additionated.

Spots can be removed from the material with an "art" gum eraser and brushed alf with a whisk broom. Never use fuel or another volatile cleaner as they destroy the rubber ply in the top cover, leading to leaks and shortening the life of the top.

The top should be worked only when it is exceptionally dirty, Only use clear worker which is free from demoiled products or other additives, their to working, below of the top and then broath it off. Use lake-warm water and a mild soop, Only such soop as costile or evice all base soops should be used. Molition the top with clear water and apply the thick used. Sorub the top with a saft broat. After scrubbing, films off the soot's wint doer water. It reasons, repeat the scrubbing with such, to fraces of the such should remain after the top has been flushed. Be sure the top in throughly dry below lowering.

After washing the top, clean the finish of the car by flushing with clear water and by drying with a clean, soft cloth.

Chromium-Plated Parts

should be lightly coaled with dramium wax, such as Chromlin, for example. The use of grease or vaseline is not recommended, as these will bind dust and diet.

Textile Upholstery

If no vacuum cleaner is available, the upholstery should be brushed. The brush should not be too soft.

Grease and all spots on the uphalstery should be treated with a spot remover. Do not pour the spot remover on the uphalstery as this would injure the color of the fober. Mostlers or clean, undped cloth with the remover and rubb it with a circular movement proceeding from the center of the spot toward the outside. Spots not coused by grease or all con supplie be removed with bluker-warm soon water.

Care of Imitation Leather Upholstery

Il is recommended to clean the conflicted leather spelabetary with a selt cledit e or off broadh, Special cores should be facine to remove duct and off or clean form the upholibety seems. A better cleaning effect is obtained by the use of a cell me upholibety seems. A better cleaning effect is obtained by the use of a cell me upholibety seems. A better cleaning effect is obtained and with self-town order form of the compact to the use are specially the upholibety of the cell of the upholibety of the cell of the cell

Care of Leather Upholstery

The leather upholstery should be serviced in accordance with the instructions given for the limitation leather upholstery. After the upholstery has been wiped dry, an accredited cleaner may be used to clean, preserve and brighten the appearance.

Cleaning Glass

Windows can be cleaned by washing with water and wiping dry with a clean, soft linen clath. In order to facilitate this task on the windshield the arms of the windshield wipers may be tilled forward. To clean unusually dirty windows, use alcohol or household ammonia and lukewarm water.

Door and Window Weather Strips

To assure a perfect door and window seal, it is important to keep the rubber parts undamaged and supple. To retain the original flexibility and to reduce friction, it is recommended to apply a light coaling of powdered tolc to all rubber parts from time to time.

Airing the Interior

If the cor is left stationary for a longer period in your gorage, attention should be paid to the airing conditions. Permit air to circulate freely through the body by opening the doors and lowering the windows to prevent a forming of mould and dome-stains.

MAINTENANCE

In the case you can't get to an Authorized VW Dealer in time, we are giving you some information which, if needed, will help you to corry out normal maintenance work. However, repair jobs which are beyond your capacity should be entrusted to VW workshops. There your car will be given expert treatment by those familiar with its construction.

This will save you time, inconvenience, and money.

Servicing Air Cleaner

The air cleaner filters particles of dirt and grif from the air used for combustion. Regular servicing at intervals of 5000 km. (3000 miles) is especially important in dusty areas. A dirty air cleaner is responsible for intitional wear, decreasing particles, and interesting full consumption.



To service the oir cleaner, remove it from the intake elbow and take off the upper half that houses the filter element. Remove dirty oil from reservoir and refill to indicated level with 0.25 liter (0.5 pint) of SAE 20 engine oil. Rinse the filter element in kerosene or any other degreasing fluid and allow the fluid to drain

from the filter. As a general rule, the cleaner oil level should be checked in conjunction with the engine oil level (every 2500 km/1500 miles). When adding oil, be

sure the level in the fluid reservoir does not rise above the mark.

If the car is mainly operating under desert or other extreme conditions of desileden atmosphere, it is up to you to prevent premoture wear by more frequently servicing the air cleaner than specified above.

Air cleaner service is overdue if there is no thin oil above the studge and dirt that has accumulated in the fluid reservoir.

Adjusting the Fan Belt

To adjust the fan belt, remove nut and outer half of generator pulley,
When loosening or lightening nut, insert a screwdriver in the stat cut into the
inner half of the pulley, and support it against upper generator housing balt.

The adjustment of the fan belt lession is effected by means of soorce washers.





situated between the two pulley halves. Belt slackness is taken up by removing one or more workers. If the half is in too much tension, one or more workers should

The fan belt should not be too slack, nor should it be too tight. Newly installed belts will stretch to some extent and should, therefore, be checked and adjusted ofter 50 or 100 kilometers (30 or 60 miles) of summire.

Cleaning the Carbureton

To clean the carburetor, it is sufficient to

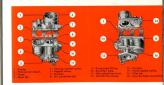
Rowl Cover Pemoval

- 1 Remove the air cleaner.
- burefor. 3 - Remove the screws that attach the
- cover to the carburetor bowl.

 4 Lift the carburetor bowl cover and lift it back. For the complete removal of the carburetor bowl cover, the choke control cable and the throttle connector red must be disconnected.



To reassemble the unit, proceed in reverse order. Install a new gasket and be sure of its proper position between bowl and bowl cover, also make sure that the pump pipe filling which projects above the jointing face of the bowl fits properly in the bowl cover.



Cleaning

- Remove float.
 Remove float.
 Remove the main jet plug and
 Remove the main jet plug and
 Remove the main jet plug and
 Remove float.
 Remove float.
 Remove float.
 Remove float.
- clean main jet and float bowl. 3 - Clean pilot jet air bleed.
- 4 Clean pilot jet. 5 - Clean air correction jet and

sion rube.

Blow out the jets and passages with compressed air. Never use a pin or a piece of wire, as such practice will lead to damage.

possage.

accelerator pump.

8 - Clean passage from float how! to

Adjustment

The corburelor is fested of the factory and properly adjusted to the engine. Do not older this adjustment by exchanging the jets or the venturi for other than the prescribed sizes. This would be detrimented under sormal operating conditions and may result in hard starting, excessive fuel consumption or unstallation or unstallation.

engine performance.

Only the idling of the engine may call for a readjustment accasionally.

Before attempting to adjust the carburetor, make sure the engine is at normal operating temperature.

1 - Turn the volume control screw in until it seats lightly, then back it off

approximately 1/4 turn.

2 - Turn the idling adjusting screw in or out until the approximate idling speed





3 - Oradually turn in the volume control screw until the position is found where the engine just lends to stall, then back it off by 1/s turn.

the engine just tends to stall, then back it off by ½ turn.

4 - Finally re-adjust the idling adjusting screw until the engine runs at normal idling speed.

naming speece. The odjustment is perfect if the engine does not stoll other the throttle either is suddenly opened or suddenly shut with the clutch pedal depressed. Poor idling may also be the result of domoged goalests, Intoke manifold Illanges not sufficiently lightened, foulty ignition or leaky volves. Skilled hands and experience are required to check ond odjust the contunetor and the eccelerator some. For this

cylinder.

Valve Adjustment

The following procedure should be carried out only in such emergencies where it is impossible for you to reach a YW Dealer.

Valve clearance should be 0.10 mm. (,004") with the engine cold. The valve clearance increases when the engine warms up. For this reason.

only adjust valve clearance when the engine is cold.

reason you should leave this job to an Authorised VW Dealer.

The arrangement of the cylinders can be seen by the numbers 1 to 4 indented in the cover plates.

Valve adjustment may be made in the following sequence: 111 - 2nd - 3nd - 4th





Adjust the valves when the piston of the corresponding cylinder is in ton dead center position of the compression stroke. Starting with the 1st cylinder, crank the engine over slowly to the left by the fan pulley, until both valves are in fully closed position and the liming mark on the pulley is in line with the vertical injeting foces of the crankcase.

If the clearance requires adjustment, loosen the lark nut of the adjusting screw and turn the adjusting screw as required to obtain the proper clearance. Tighten the lack nut and recheck the clearance. Readjust if necessary. Check and adjust the other valves to the proper clearance in this manner by turning the crankshaft anti-clarkwise another 180° for each cylinder



Checking the Spark Pluas

The spark pluas must be thoroughly maintained for easy storting and erange mical operation. Remove the plugs and

medium arev - good adjustment of rect performance of

snork nlun. lightgrey oiled up - failure of spark plug

or worn-out cylinder.

Clean the spark plugs with a brush and a thin of wood and blow them out Inspect the spark pluas for cracked insulptors and burned or pitted electrodes. The insulator should be clean and day on



Check the electrorie non (0.6-0.7 mm. = 024"-028") and reset if necessors by bending the outer electrode. Look for a proper gasket before installing the plunservice life of the spark plugs up to 15 000 km. (9300 miles).

Ignition and Timing

Particular attention should be attached to the importance of correct ignition timing. The operation of the engine will be seriously offected if the ignition breaker points are not properly timed and correctly spaced. In many cases page performance, high fuel consumption and even severe damage to the engine can be the result of on incorrect ignition setting. Normally, the adjustment should be done by an Authorised VW Dealer when the car is brought in for regular inspection. However, a few practical hints are given herewith, because according to our experience damage is ant to result if the technical facts and data are not known.

Adjust the ignition with the engine cold.

Adjusting Contact Points

Remove distributor cap and rotor. The breaker contact points are adjusted by cronking the engine until the fiber block on the contact arm rests on the highest point of the cam lobe. Then loosen the stationary point looking screw and turn the eccentric adjusting screw until the correct gap is obtained. Use a feeler gauge of the proper thickness (0.4 mm. = .016"). Tighten lock screw and recheck the gap. If the points are burned, rough or pitted, renlare them. The distributor cap should be clean and dry to avoid short circuits.



After the contact points have been adjusted, it is absolutely necessary to check the ignition timing.

Ignition Timing

Crank the engine clackwise until the mark of the crankshaft pulley lines up with the vertical crankcase jointing faces and the distributor rotor arm is in the position for firing on the No. 1 cylinder (see mark on rim of distributor base). Loosen the lack screw below the distributor base and rotate the distributor body clackwise until the contact points are closed. New switch on the ignition and rotate the distributor slowly counter-clackwise until the contact points just start to open.





To obtain a more accurate adjustment for maximum results, it is advisable to use a test lamp or an ignition timing light.

The test lamp should be connected to the distributor primary lead terminal and to ground. The lamp will light up as lang as the contact points are kept open by one of the four cam lobes of the distributor shalt. After the adjustment is completed, tighten the lock screw, replace the rator and clamp the cap on the distributor. Check vacuum tube union nuts for tightness.



Exchanging Fuses

The two fuse boxes are found: a - underneath the front hood, to the left of the fuel tank (two poles).

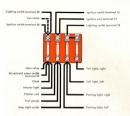
b - underneath the front hood, on the back

of the instrument panel (four pales). A connector provided with a fuse is in the cable between ignition switch and

When a fuse has blown out, it is not sufficient to merely replace it by a new one. Inspect the electrical system for evidence of short circuits or other faults that may

Under no circumstances should you use a fuse patched up with tin-fail or wire, because this may result in severe damage. We suggest that you carry with you a set





Fuse box on the back of the instrument panel



Fuse hay adjacent to the fuel tank

Alming the Headlights

- If no headlight aiming device is available, proceed as follows:
- Place the unloaded car on a level position with a dark-colored vertical screen
 5 m. (16.4 ft.) ahead.
- 2 Next draw two cross lines on the screen according to the sketch.



- 3 The longitudinal center line (car axis) must hill the center of the screen exactly between the two cross marks.
- 4 Switch on the high (country) beams and check the beams of the cross marks.
- 5 Remove the slotted screw at the bottom of the front rim and unhook the rim from the top engagement for removal.

Independent adjustment of both horizontal and vertical aim is provided with the adjustment screen in the headlight will rim.

Vertical Adjustment

Turn lower screw

to the right — Beam swings up to the left — Beam swings down

Horizontal Adjustment

Turn right screw

to the right — Beam swings to the left to the left! — Beam swings to the right ("Right" and "Left" is as indicated when sitting in the car facing forward.)

Then switch on the low beam and check the distance between the upper limit of the light spot and the center of the cross (2").

Headlight Bulb Replacement

Remove the slotted screw of the bottom of the front in and unbook the rim from the top engagement for removal. Lossen the top engagement for removal. Lossen the fising screw of the bottom of the light unit rim and pull out the light unit. Unbook the tensives spring, and pull out the lessing holder. When replacing the bubb, make the pull of the light unit. The pull of the light unit rim of the

Front Direction Indicator Bulb Replacement

Pull rubber bool from bullb holder and loosen the hex.nut. Remove the two slotted screws and take off bazel, lens, and rubber seal. Replace the bullb. When lightening the nut, make sure the rubber seal property









License Plate Light Bulh Replacement

The license plate light bulbs are accessible through openings from under the engine compartment hand.



Indicator Light Bulb Replacement To replace the bulbs of the two combined tail/stop/indicator lights in the rear wings. remove the slotted screws and take off the lenses. Be sure the bulbs make perfect contact in their sackets and the rubber sent fits properly!



Warning and Instrument Light

Bulb Replacement The warning lights for oil pressure, generator charaina, direction indicator, and headlight main beam, as well as the speedometer, clock and fuel gauge lights. are accessible by lifting the front hood and removing the cover in front of the instrument panel. The bulb sorkets conensily he nulled out from their holders.

Battery Maintenance

The battery is located in the engine compartment, where it is easily accessible for servicing. Ready starting of the engine depends upon perfect condition of the battery. Inspect the battery regularly as prescribed in the Maintenance Chart and even more frequently under conditions of extreme heat. The bottery cover can be easily removed after the strap fastener has been opened.



charged cell should read 2.0 volts.



The state of charge of the battery may be checked by means of a battery hydrometer. The specific grovity of the battery liquid will increase with the charging of the bottery. Tested with the hydr scale of a floot.

ometer,	the	gravity	can	bө	read	from	the	
Batter	y h	lly char	ped	1	.285	= 320	86	

Bottery fully discharged 1.142 - 18° Bé In addition, a valtmeter test should be made to insure that the battery is in good operating condition and able to provide the necessary current. The voltage of each cell should not fall below 1.6 valts while taking the reading (10-15 seconds). Otherwise the cell is discharged or defective. Under no-load conditions each

Add distilled water to each cell to bring the level to approximately 5 mm (.2") above the plates or above the deflector plate, if any, If there is an acid level mark, adjust the acid level accordingly. Lasses by evaporation may only be replenished by adding distilled water. Never add acid, unless it is known that acid has been spilled from the battery. Check specific gravity afterwards and compensate if necessary.

Check condition of the bottery posts and the coble terminals. They must be clean and light to prevent accessive electrical resistance. Use a still brush to remove corrosion from both posts and terminals. Cool the clean posts and terminals with light grease or vaseline to prevent corrosion. Make size that the bottery is properly



Checking the Brakes

Excessive travel of the brake pedal before broking is effected indicates too much clearance between brake shoes and drum. You can check the brake linings by looking through the inspection hale in the brake drum. Inspect them every 300 miles. If so

are bodly worn replace them. Brake Adjustment

Brake adjustment should be performed by an Authorized VW Dealer, However, if an emergency arises where the brakes must be adjusted before you can reach the nest repair shop, the following procedure for

bleeding and adjusting can be used.

The fluid reservoir is located under the front hood behind the spare wheel. To fill up, use only Genuine VW Brake Fluid.

The fluid reservoir should be kept of legs.

1/4 full at all times.

Handle the brake fluid carefully. It is injurious to the bady pointwork.

the valve.

Bleeding Hydraulic System

The presence of oir in the hydraulic broke system will course "spongy" broke naded

operation.

1 - Remove rubber cap of the bleeder valve of one wheel cylinder and attach one end of the brake bleeder have to



3 - Turn the bleeder valve to the open position (1-2 turns).

4 - Pump the brake pedal several times, forcing fluid through the lines until bubbles cease to appear in the confainer. Make sure that enough brake fluid remains in the fluid reservoir during the bleeding operation as otherwise air would be

5 - The brake pedal should be kept in the fully depressed condition until the bleeder volve is closed.

6 - Remove the hose. Replace rubber cap.

7 - Repeat the above operations on the other wheels.

When the bleeding is completed, refill the moster cylinder reservoir with broke fluid if necessary.

Adjusting Hydraulic Brake

Brokes require periodic adjustment to assure their proper operation. Too much free troval of the broke pedal is an indication that the cleanance between broke shoes and broke drums has become too great and that the brokes need adjustment. This adjustment will usually compensate for such weer as will take place until relinion at the shoes is reasonized.

until renning of the shoes is required.

1 - Jack up all wheels clear off the flor. Turn forward the wheel to be adjusted until the hale in the brake drum is in line with one of the adjusting mids.







- 2 Insert a screwdriver through the hole and turn the adjusting out in the direction indicated by the arrow, using a screwdriver as a lever, until a slight drag is noted when the wheel is turned by hand.
- 3 Repeat procedure on the other adjusting nut. Note the apposite turning direction of the two nuts.
- 4 Back off the adjusting nuts by 3 to 4 teeth.
- 5 Repeat the above operations on the other wheels. Before and after adjusting the brake shoes it is advisable to depress the brake pedal firmly so that the brake shoes are properly seated in the brake drum. When adjusting the rear brakes, the hand brake must be released.



Adjusting Hand Brake

- 1 Jack up both rear wheels. 2 - Fold back hand brake lever rubber boot
- to gain access to the adjusting nuts. 3 - Tighten adjusting nuts on the front ends
- of the brake cables to a degree which will still allow the rear wheels to here freely when the hand brake is released. 4 - Pull up hand brake lever by two notches and make sure both rear wheels have the same broking effect. At the fourth notch it should be impossible to turn



the wheels by hand. Steering Gear

The need for adjustment will be evidenced by the development of excess free play in the steering wheel. The play should be as small as possible, but care must be token to allow the front wheels to resume their straight-ahead position automatically after the car has completed a turn. As special experience is needed to properly service this unit, all operations or adjustments required should only be performed by an Authorized VW Dealer, II, however, a workshop is out of reach, proceed as follows:

1 - Turn the front wheels to the straight. ahead position.

- 2 Loosen lock nut and sector shaft adjusting screw on top of the steering gear case. 3 - Adjust worm shaft end play: Loosen adjusting sleeve clamping screw and
- tighten adjusting sleeve clackwise until the worm shall end play is taken up. Tighten adjusting sleeve clamping screw.
- 4 Adjust sector shaft end play: Tighten adjusting screw as for as it will go and
- 5 The adjusting nut is to be secured in position by the lack nut after the adjustment has been completed.
- 6 After having completed adjustments with the car supported on trestles, check the steering for binding by turning the steering wheel in both directions as for as it will go.

The maintenance service at every 5000 km. (3000 miles) provides the regular adjustment of the torsion arm link pins on the front axle. After this operation it is absolutely necessary to check the toe-in of the front wheels.

Checking Toe-In

With the vehicle empty and on the ground the toe-in should be 1-3 mm. (040" -1.18"). This adjustment of the front wheels can only be carried out satisfactorily is a workshop with the old of a payor for this purpose. If the wheels are not properly toed-in the result will be bad road holding and excessive tire wear.

Front Wheel Begrings

The front wheel bearings will occasionally require adjustment. We recommend to refer this execution to on Authorized VW Denler. as mal-adjustment may cause severe da-

mage to the bearings. If circumstances require a removal of a treat broke drum the front wheel bearings are to be adjusted as outlined below: Tighten inner nut until the thrust wosher but allows to be moved laterally by a screwdriver and no bearing play can be felt when racking the broke drum. Too leave or too tight an adjustment may ruin

the bearings in a short time. Finally, serure the nuts by hending down



GENERAL DESCRIPTION



12

13

3

14

(3

16

Engine

The engine, located in the rece of the core, is mouted in a fleeting way on the excessed flarge of the reshber-cubined transmission core. Two point of cylinders one horizostally appeared. Each poir has a common cylinder hand mode of light (high between devilwars are located in the cylinder hand and no apented by a comstant via push and not core ones. The short and control-baseded corels that sais is two reproceeding social field rich position grant a final transmission of the core of the core of the corelation of the core of the

A down-draft carburetor with accelerator pump produces the fuel-air mixture to supply the cylinders. The engine is equipped with battery ignition.

The spark advance is controlled automatically in two ways, by a centrifugal advance mechanism and a vocuum advance mechanism to assure proper functioning of the ignition wader all operating conditions.

The oil pump of this full pressure lubrication system is driven by the constabil and it sucks the oil from the crankcose bottom through a stations, from where it will shoughe points of lubrication via on oil cooler. In code weather, when the oil is of higher viscosity, on oil pressure relief volve makes it possible for the engine to be lubricated directly, that is, by avoiding the oil cooling system.

The oir cooling of the engine is effected by means of a tan, which is attached to the estended generator shaft and driven from the creakshall by a V-belt. The fors sucks in air through an opening in the tan housing, and the air cools the engine by passing through flins. A therenotat control and regulates the amount of cooling air and inverse wellbackneed apparenting and heating temperatures.

Charrie

The frame of the cor is of pressed steel. The steel floor of the frame is formed in two pieces. Those two pieces are spot-welded together with the channel-shoped center section of the frame, the forked rear end of which serves to support the transmission and engine unit. The following parts pass through the center of the

Gearshift rod, hand brake linkage, fuel line, and, in conduit tubes, the cables of brakes, clutch, theattle, choke, and warm-air heating unit. The front suspension is an independent parallel arm type, using torsion bar springs. The front axle is bolted to the front end of the frame and consists of two rigidly igined tubes, which carry the forsion bar springs and the upper and lower arms of the front wheel suspension. The steering linkage is arranged for top accuracy. Rubber stops serve to avoid undesirable vibrations. The rear axle is of the swinning half asle design. The rear wheels likewise are independently sprung, using one individual torsion bar spring on each side. Double-acting hydraulic shock absorbers in front and rear prevent excessive rebound.

Transmission and Rear Axle

Power from the engine is transmitted to the gears via a dry single-disc clutch. The transmission case incorporates four speeds forward, one reverse, and the differential

The car is equipped with synchromesh devices for the 2nd, 3nd, and 4th agars. The gears are helically cut to provide silent operation.

The drive pinion and the ring gear are cut spirally. The two swinging rear axle shafts are flexibly supported in the differential housing.

Brokes

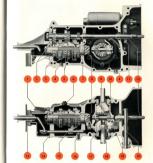
The car is equipped with a direct acting hydraulic brake operating on all wheels. The handbroke acts mechanically on the rear wheels.

Body

The two-door body, having the sweeping lines of a pontoon, is made up of pressed steel panels electrically welded together. The wings are welded to the body. The doors contain window regulator mechanisms. The front seats and the rake of their backrests are adjustable to suit individual requirements. Luggage space is provided behind the rear seats and under the front hood. Fuel tank and spare wheel are accommodated under the front hood. The hood locks are released by pulling of knobs from inside the car.

Heating System

Heated air, which is taken from the air flow warmed up by the engine, is emitted through two openings at the fact level, two defroster vents at the windshield and one defroster vent in front of the rear view window. The healing system can be controlled from the driver's seat by means of a rotary knob. The two ventilators allow an individual regulation by two levers below the instrument panel. The air flows enter the interior through the two defroster vents at the windshield. Thus, fresh air can be mixed with the heated air in the desired proportions.



Rear Axle and Transmission

- 4 Oil Drain Plug
- 9 Differential Side Gear 11 Clutch Release Bearing
- 15 Selector Fork

TECHNICAL DATA

	Spark Plugs Bosch W 225 T 1
	Beru 225/14 u 2
	Lodge H 14 or HN
	Champion L 10 S
	AC 43 L
	Auto-Life AE 6 or AFR 6
	KLQ F 70
	Spark Plug Gap
	Speak 1 mg Golp
	Clutch
	Dasign Single Disc, dry
	Pedal Free Play
	redoi Free Flay
	Transmission
Engine	4 Speeds Forward, 1 Reverse, 2nd, 3rd, and 4th Oears Syndronized and Helically
	Cut for Silent Operation.
Design 4 Cylinder, 4 Cycle, O.H.VType,	
in rear of car	Gear Ratios
Arrangement of Cylinders Horizontally apposed (Flat Four)	Second 1.88:1
Bore	Third 1.23:1
Stroke	Fourth 0.82 : 1
Copacity	Reverse 4.63 : 1
Compression Ratio 6.6	Rear Axle
Valve Clearance Intake 0.10 mm.) to be	Power is transmitted through a spiral drive pinion and ring gear, via two swinging
	axles to the rear wheels.
	Rollo 4.4 : 1
Exhaust 0.10 mm. when Engine	Oil Copacity of Transmission and
(.004") is cold	Rear Axle Metric — 2.5 liters
B. h. p. (SAE)	U. S. — 5.3 pints
Lubrication Force Feed (Gear Pump) with Oil Cooler	lmp. — 44 pints
Oil Capacity Metric — 2.5 liters	Chassis imp. — 4.4 pints
U.S. — 5.3 pints	Front Suspension Two Torsion Bars
Imp. — 4.4 pints	One Stabilizer Bor
Fuel Pump Diaphrogm Type	Rear Suspension Two Torsion Bars
Corburetor Down-Dreft Type, Solay 28 PC1	Shock Absorbers Double Acting Hydraulic Type,
Cooling System Air Cooling by Fan,	
Thermostaticantrolled	Front and Rear
Boffery 6 Yolfs, 46 Ampere Hours	Steering Worm Steering Oear,
Starting Motor Electric, 6 Volts, .5 HP.	divided Tie Rod
Generator	Turns of Steering Wheel, Lock to Lock 2.4
Voltage regulated, 6 Volts,	Turning Circle opprox. 11 meters (36 ft.)
160 Watts of 2500 R. P. M.	Wheels Disc Wheels 4 J X 15, Drop-Center Type
Ignition Distributor Centrifugal and Vacuum	Tires 5.60—15. tubeless
Spark Advance	Inflation Pressure
Firing Order 1—4—3—2	1 to 2 Occupants Front: 1.1 kg/cm.3 Rear: 1.4 kg/cm.3
Spark Timing 7.5° before T.D.C.	16 lbs/sq. in. 20 lbs/sq. in.
	20 1057 sq. in.
68	

Breaker Point Gap 0.4 mm. (.016")

Snork Pluns

Fully loaded	. Front: 1.2 kg/cm. ² Rear: 1.6 kg/cm. ² 17 lbs/sq. in. 23 lbs/sq. in.
Wheel Base	. 2400 mm (94.5 in)
Track (Tread)	Front: 1260 mm (61.4 l=)
	Regri 1250 mm (49.2 in)
Toe-in (car unloaded)	. 1 to 3 mm. (0.04 in. to 0.12 in.)
Brokes	
Foot Brake	Hydraulic Broke Occuption on All Wheels
Hand Brake	Mechanical, Operating on Rear Wheels
Dimensions and Weights	Coupé Cabriolet
Length	. 4140 mm. (163*) 4140 mm. (163*)
Width	1634 mm. (64.4") 1634 mm. (64.4")
Height	1325 mm. (52.2") 1330 mm. (52.4")
Road Clearance	155 mm. (6.1") 155 mm. (6.1")
Net Weight	760 kg. (1676 lbs.) 790 kg. (1742 lbs.)
Weight, ready for use	780 kg. (1720 lbs.) 810 kg. (1786 lbs.)
Maximum Carrying Capacity	330 kg. (728 lbs.) 300 kg. (661 lbs.)
Permissible total Weight	1110 hr (7447 lbs 1440 hr (7447 lbs.)
Max. Axle Loads	Front 450 kg. (992 lbs.)
	Rear 660 kg. (1455 lbs.)
Fuel Consumption	Neur 600 kg. (1433 lbs.)
Fuel Consumption according to Din 70 030	H-14- 33.51
(Comsumption plus 101/s with half the poylood at a steady 1/s of top speed on level road.)	U.S. — 32 miles per gallon
a steady 1/4 of top speed on level road.)	Imp. — 39 miles per gallon
Fuel	Imp. — 39 miles per gallon
Oil Consumption	Min. Octone Number 76 (Res. F 1)
	(2940 miles/U.S. gall. or
	3520 miles/Imp. gall.)
Capacities	3320 miles/imp. gall.)
Fuel Tank	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT
	5 liters (1.3 U.S. gall.; 1.1 Imp. gall.)
Engine	25 liters (62 H.C. winter 64 tons -1-11
Rear Axle and Transmission	2 liters/Politice executive
	(4.2 IIS minter 2.6 tons mintel
Steering Gear Case	0.125 lites (0.26 LLF = 1-1 0.22 LLF = 1.0
Brake	0.25 liter (0.5 U.S. pint; 0.22 imp. pint)
Performance	eas mer (as out pint; an imp. pint)
remormance	
Maximum and Cruising Speed	
Hill-Climbing Ability	
	Second Speed 17 */e (9.5°)
	Third Speed 10.5 % (6°)
	Fourth Speed 5.5 % (3 °)
70	
70	

MAINTENANCE CHART

and a	188	900	Operati	Operation				
ž	2588	900						
			Check air cleaner, clean it if necesso	7				
			Check and adjust for belt					
			Clean carburetor Check carburetor adjustment		36			
			Check breaker points and ignition time	ing				
			Check valve clearence					
			Exemine bottery		5000			
			Check operation of lights, signals, an	d instruments	km.			
			Check generator		3000			
			Check spark plags and compression		miles			
			Check front wheel bearings, link pins	and fee-in				
			Check sleering gear adjustment					
			Check fire pressures and tighten whee From 5000 km. (3000 miles) anwords, r	l balts state tires				
			Test brokes Check brake linings through inspection	n hele				
			Check lightness and effect of shock ab	sorbers				
			Check clutch pedal clearance					
4			Coal weather strips for deers and win	dows with powdered tale				
9			Check automotic cooling air control		10 000			
			Inspect rear axis and engine for all b	ooks	km.			
			Engine, especially exhaust, cor- bureter, intake manifold, and fuel pump	Check lightness of nuts and	6000			
			Chassis, body, freet axle, rear axle, and steering	belts	miles			

LUBRICATION CHART

200 100 100 200 200 100 100 100 100 100	No.	Lubrication paints	Mork	Every
	1	Engines Check oil level, top up if	м	
	2	Front oxle tubes	F	
	3	King pins	F	2500 km.
	4	Tie rod ends	F	1500 miles
		Door hinges	M	
	5	Engine: Change oil	M	
	6	Engine: Clean oil strainer		
	7	Transmission: Check oil level	G	
10	8	Steering gear: Check all level	G	
	9	Brake cables	F	5000 km.
	10	Pedal cluster	F	3000 miles
	11	Cerbunetor controls	M	
10 10	12	Breaker arm fiber block in distributer	F	
		Heed locks	F	
	13	Trensmission: Change oil	G	2000 (2000)
	14	Front wheel bearings	w	25 000 km.
	12	Combeoring in distributor	M	15 000 miles

LUBRICANTS

Lubricant	Lubrication points		Specifications		
			Temperature C #		
Engine oil (HD oil for	Engine, Oil both air cleaner	M	obove+30° +86°	SAE 30	
Otto-cycle cerburefor centrels, door hinges engines) com bearing in distributor	~	from 0° +32° up to +30° +86°	SAE 20 or SAE 20 W		
	com bearing in distributor		below 0° +32°		
			below -25" -13"		
	Transmission rose	-	obove 0° +32°	SAE 90	
Geor oil	Trensmission cose	G	below 0°+12°	S.A.E. 80 V	
	Steering gear	G	SAE 90		
Universal greate	Front exis, tie rod ends, king pins, broke cables, pedal cluster bearing, breaker arm Sher block, head looks	F	Anti-freez woter-repellent	e, gresse	
Special grease	Front wheel bearings	w	Anti-friction bear	rian areas	

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Tools and Accessories

- 1 Fon Relt
- 1 Tool Bag
 - 1 Spare Wheel, complete
 - 1 Combination Pliers
 - 1 Screwdriver 0.8 mm. (.0315")
 - 1 Screwdriver 0.5 mm. (.0196")
- 1 Open End Wrench 8/12 mm. (3149/.4724")
- Socket Wrench for Spark Plug, Wheel Disc Bolt, and Fan Pulley Nut
 - 1 Socket Wrench 14 mm. (.5511 ")
 - 1 Rod for Socket Wrench and Jack 1 Service Booklet
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