
grand
route

owner's manual

ds-19 grand route

Dear Citroën Owner:

Welcome to the Citroën family!

You have chosen not only "the world's most comfortable car", but an automobile engineered and designed for the ultimate in roadability, dependability, and economy.

Like any other piece of precision-made fine machinery, your Citroën requires certain routine maintenance to insure regular uninterrupted performance. Please take the time to read this guide carefully, as well as the Maintenance Booklet you received from your Dealer at time of delivery.

These books have been prepared by Citroën engineers. By following the suggestions and instructions found within and by patronizing Authorized Citroën Dealers, your car will give you thousands of miles of trouble-free service.

All of us at Citroën, and our network of Citroën Authorized Dealers, maintain an interest in you and your car. We are always happy and interested in hearing from Citroën owners, and remain always at your service

Sincerely,

CITROËN CARS CORPORATION

Sole importer and distributor in the United States

East of Rocky Mountains

GENERAL OFFICE

CITROEN CARS CORPORATION
300 Park Avenue
New York 22, N. Y.
Telephone: MU 8-1161
AREA CODE 212

SERVICE AND PARTS

CITROEN CARS CORPORATION
415 Third Avenue at 7th Street
Brooklyn 15, N. Y.
Telephone: JA 2-2626
AREA CODE 212

West of Rocky Mountains

GENERAL OFFICE — SERVICE AND PARTS

CITROEN CARS CORPORATION
8423 Wilshire Boulevard
Beverly Hills, California
Telephone: OL 3-8330
AREA CODE 213

guarantee — When taking delivery of your new car, you will receive a WARRANTY and MAINTENANCE BOOKLET. Please keep this Booklet available at all times. It must be presented to all Citroen Dealers in order to insure proper application of our WARRANTY POLICY.

After you have driven the first 300 miles, your car must receive a **FREE 300 MILE INSPECTION** by any Authorized Citroen Dealer. After completion of the operations your Authorized Citroen Dealer will fill in and mail the self-addressed inspection Certificate to Citroen Cars Corporation.

IMPORTANT — The terms of the Warranty will be voided if the 300 mile inspection was not performed in due time, or if the 300 mile inspection stub was not duly filled in.

THIS IS THE OWNER'S RESPONSIBILITY.

contents

identification and plates

The car **Serial Number** is stamped on a rectangular plate located on the upper right side of the fire wall in the engine compartment.

The **Motor Number** is stamped on a rectangular plate located on the left side of the engine block.

The **manufacturer's plate** with the words "Made in France" is mounted on the chassis at the right side of the engine.

Note: You must not remove or change the location of these plates.

The **Paint Reference Number** is stamped on a small round plate located next to the serial number plate. This number is a three digit figure preceded by "A.C.".

major specifications and settings

Horsepower:
83 B H P @ 4,500 RPM
Fuel: Premium Grade.

Capacities:

Fuel tank	17 gallons U.S.
Cooling system	10.5 quarts
Cooling system with heavy duty heater	16 quarts
Engine crankcase (oil)	4 quarts
Gear box (oil)	2 quarts
Hydraulic system reservoir (Heavy Duty Brake Fluid)	5.5 quarts

Main Dimensions

Wheelbase	123"
Front track	59"
Rear track	51¼"
Overall length	190½"
Overall width	70½"
Height	58"
Curb Weight:	2,640 lbs.

Spark Plug Gap:

Marchal 35 B	0.025" - 0.030" 0.7mm - 0.8mm

Valve Clearance — Cold:

Intake	0.008" (0.20 mm)
Exhaust	0.010" (0.25 mm)

Carburetor:

	Main Jets	Idling Jets
Primary Barrel	110	45
Secondary Barrel	155	55

Front Wheel Toe-in:	0.040" to 0.120"
Electrical System:	12 Volt

Bulbs:

2 Front Sealed Beams	50w - 40w
2 Front Directional lights	4w - 18w
2 Rear Directional lights	25w
2 Tail lights	4w
2 Stop lights	15w
2 License plate lights	1.5w
4 Interior lights	4w

Instrument Panel:

1 Charge indicator	1.5w
1 Directional indicator	24v - 3w
1 High Beam indicator light	24v - 3w
1 Hydraulic pressure indicator	12v - 4w
2 Dash panel lights	1.5w
1 Clock light	1w

Convertible:

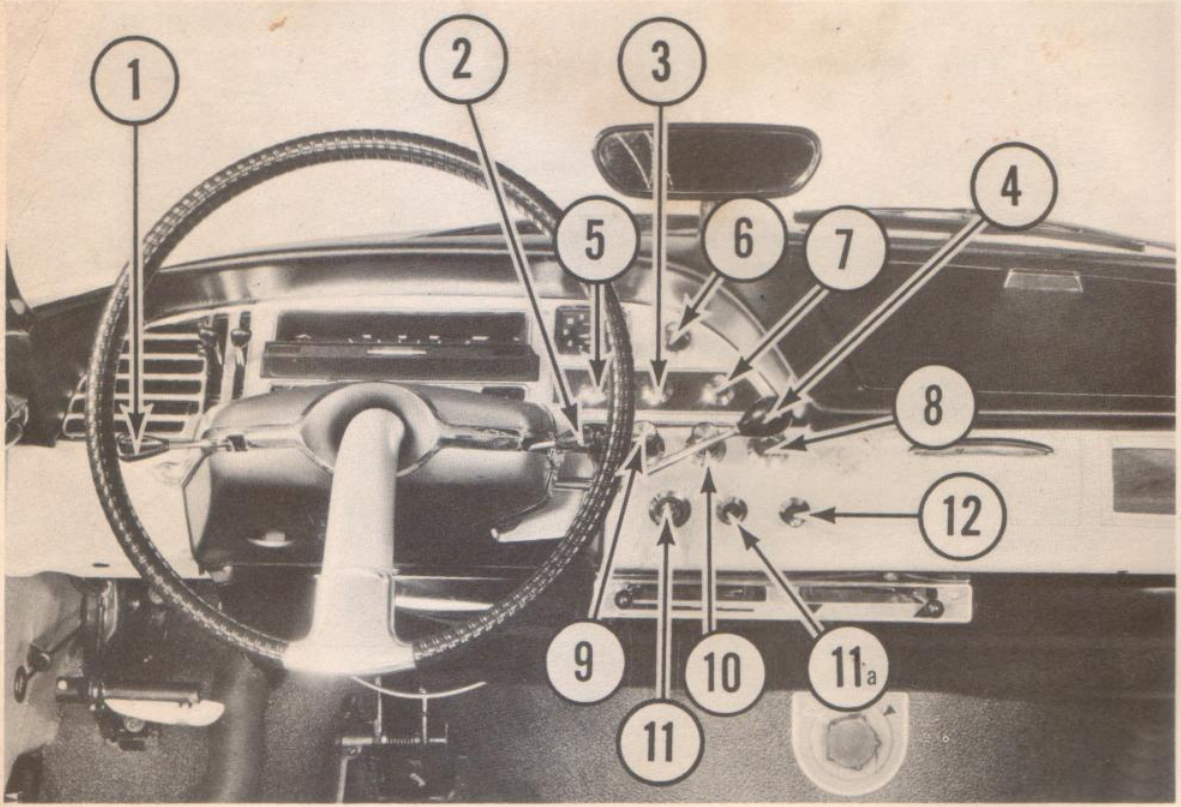
2 Rear Directional lights	4w - 32w
1 Courtesy light	7w

300 mile check up

following are the 38 operations of the 300 mile check up:

1. Check tire pressure.
2. Check tightness of wheel mounting lugs.
3. Tighten cylinder head.
4. Adjust valve clearances.
5. Tighten connections of the valve rocker oil feed lines.
6. Tighten exhaust pipe connection and brackets.
7. Tighten carburetor mounting nuts.
8. Check tension of generator and fan belts.
9. Adjust distributor points.
10. Check tension of H/P pump belts.
11. Clean hydraulic filter.
12. Check operation of the hand brake.
13. Start the engine. Let it run about 10 minutes.
14. Check hydraulic circuits for leakage.
15. Check fluid level in hydraulic circuit reservoir — add fluid if necessary.
16. Check clutch adjustment.
17. Adjust idling.
18. Check hydraulic pressure (pressure regulator and accumulator).
19. Check the carburetor.
20. Check the heights.
21. Check hydraulic circuits for leakage under the car.
22. Drain motor oil. Refill with 10w-30 Multigrade Oil. (Labor is free. Owner must pay for the new oil).
23. Lubricate drive shafts, pivots and anti-roll bar knuckles.
24. Check transmission oil level.
25. Adjust the rear brakes.
26. Check battery water level. Tighten terminals.
27. Check terminals of starter and regulator for tightness.
28. Check operation of:
    Headlights (include aiming).
    Windshield washers and wipers.
    Interior lights (Dash and door switches).
    Tail lights.
    Stop lights.
    Directional lights and indicator light.
    Heater fans.
    Horns.
    Trunk light and switch.
29. Check the generator output.
30. Check instrument panel lights and signals.
31. Check operation of doors.
32. Check operation of door windows and handles.
33. Tighten the bumpers.
34. Check operation of hood and trunk lid.
35. Check operation of the trunk lid support rods.
36. Check operation of the height control lever.
37. Check seats for correct operation and adjustment.
38. Tighten roof fastening bolts.

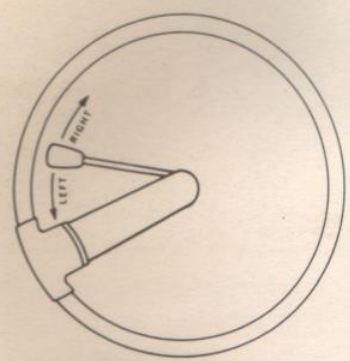
instruments and controls



instruments and controls

fig. 1 — **dashboard**

1. Directional Signal Lever. Move lever up to signal a right turn or down to signal a left turn.

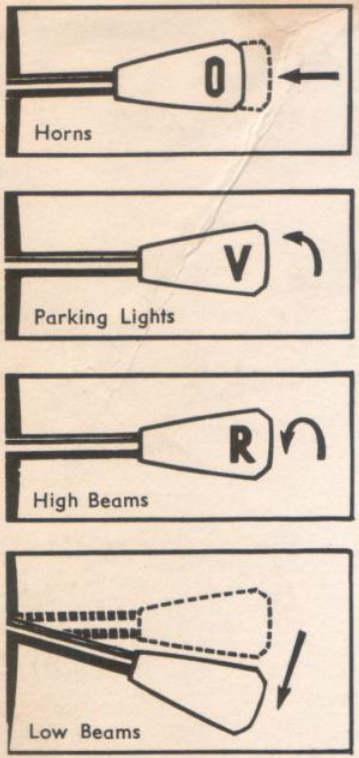


To cancel a signal slightly lift the lever toward the steering wheel. The signals can be reversed immediately by moving the lever all the way up or down. In addition to the indicator light 1 Fig. 2, an audible clicking sound occurs during the operation of the signal lights.

2. Horn and Light Switch (combined unit). See page 10.
3. Overnight Parking Lights. Turn the knob to the left or to the right to switch-on simultaneously a front parking light and a rear red light on the side desired.
4. Gear Shift Lever.
5. Interior Light Switch.
6. Charging Indicator.
7. Windshield Wiper Control. Pull knob to operate wipers.
8. Windshield Washer Control. Press on knob to spray liquid on windshield.
9. Choke Control. See page 17.
10. Cigar-Lighter. To operate push in completely. Wait a few moments until it springs back when ready for use.
11. Ignition Switch.

11a. Starter Button.

12. Heater Fan Switch.



horns and headlight switch:

2 fig. 1

It controls the Horns, the Headlights and serves as a Dimmer Switch at the same time. Its lever can move in three different directions.

1. It can be pressed **IN.** Press lightly to sound **Low** tone (Town horn). Press fully to sound **High** tone (Country horn).
2. It can rotate from "O" to "R".
   Position "O" — All lights **OUT.**
   Position "V"—Parking lights **ON.**
   Position "R" — High Beams **ON.**
3. It can move **up** or **down.** When lights are set in position V or R and the lever is moved down the **Low Beams** will go **ON.**

"V" for Ville or Town.
"R" for Route or Road.

instruments and controls

fig. 2 — **instrument panel**

1. Directional indicator (Green light). See 1 fig. 1.
2. Hydraulic pressure and Brake warning light. Functions only when the ignition is **ON.** Also see Brake Security Control page 20.
3. High Beam indicator (Blue light).
4. Temperature gage—Optional —see page 33.
5. Speedometer Dial.
   Mile graduation — 0 to 120
   Kilometer graduation — 0 to 180
6. Odometer (total mileage).
7. Trip mileage register.
8. Trip mileage reset control (push in and turn to zero).
9. Fuel gauge.

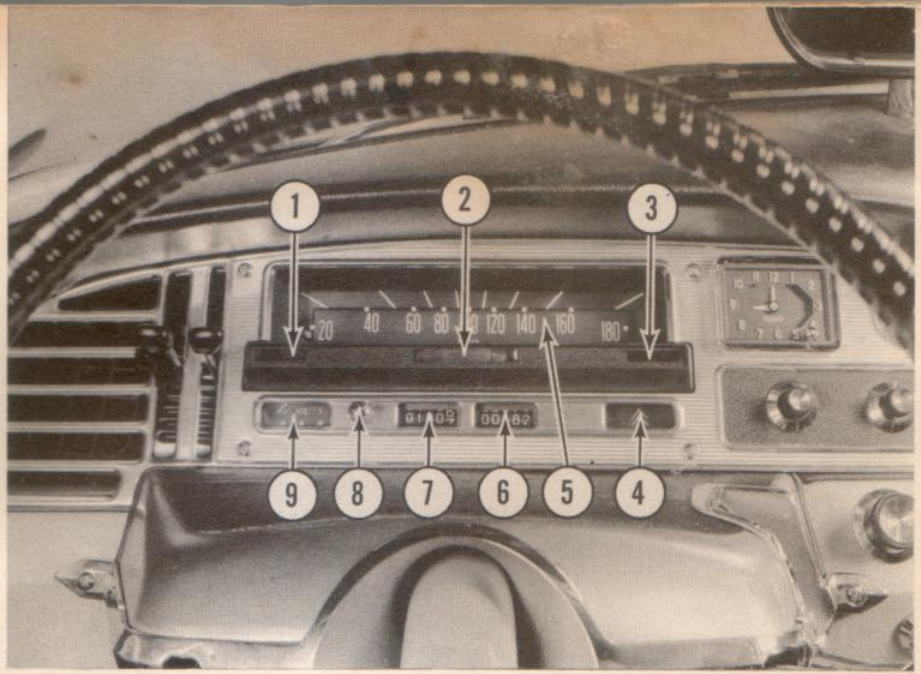


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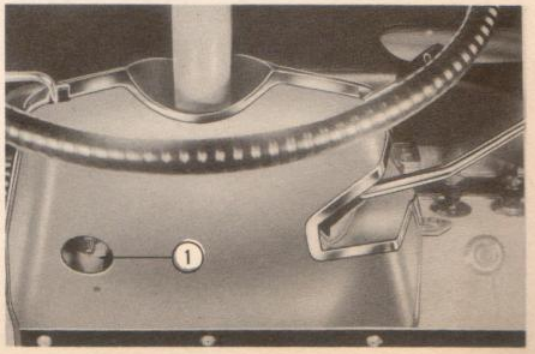
fig. 3 — instrument panel light

A rheostat type switch **1** is located under the steering cluster. It regulates the intensity of the panel light when the ignition switch is **on** and light switch **2** fig. **1** is in position **V** or **R.**



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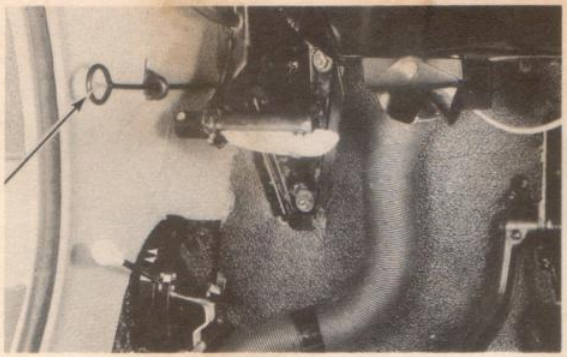
driving



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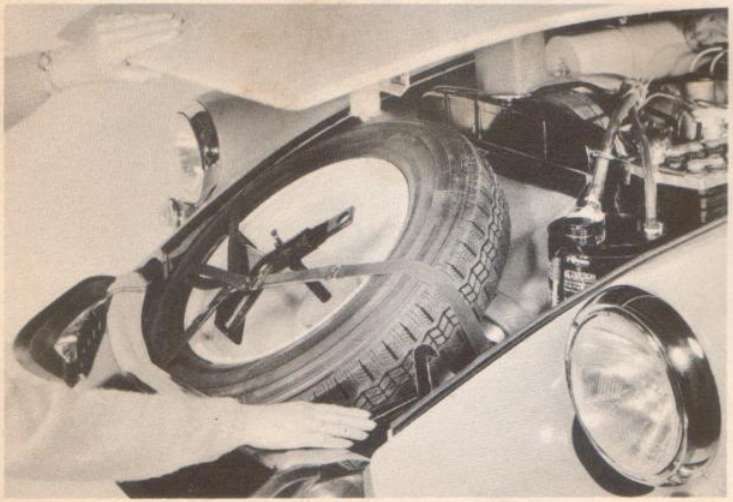

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breaking-in period

During the first 300 miles, do not exceed the following speeds:

12 m.p.h. in first gear,
28 m.p.h. in second gear,
44 m.p.h. in third gear,
60 m.p.h. in fourth gear.

Do not race the engine until you reach 1,200 miles.

After 1,200 miles the car may be driven freely up to the following speeds:

25 m.p.h. in first gear,
50 m.p.h. in second gear,
70 m.p.h. in third gear.

Avoid driving the car in fourth gear at speeds below 40 m.p.h.

IMPORTANT:

During the Break-in period, engine oil must be drained after the first 300 miles and again after the first 1,200 miles. Thereafter change engine oil every **2,400** miles.

driving for economy

The most economical driving speeds are as follows:

35 m.p.h. in second gear,
50 m.p.h. in third gear,
65 m.p.h. in fourth gear.

day-to-day checking

It is the responsibility of every Driver to check **before starting:**

a — The Engine Oil Level
b — The Water Level
c — The Hydraulic System Fluid

This should not only be done when the car is new but **always.**

hood release

Release the right and the left hood catches by pulling both release rings from inside of the car. See fig. 5. The hood will rise slightly.

With your right hand reach the safety latch fig. 6 and press it down to open the hood completely.

To support the hood in the open position remove the rod from its grommet and place it into the notch on the right side of radiator frame. See fig. 7.

a. engine oil

Check the oil level on level ground. The oil should never drop below the lower notch or raise above the upper notch of the dipstick.

Between the "Mini" and "Maxi" marks on the dipstick, the corresponding amount of oil in the crankcase is approximately 1 and ¾ pints.

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b. water level

The level should be about 1 inch from the top of the filling neck. The radiator is fitted with a pressure cap. Therefore, when checking level of a warm engine, use caution before completely removing cap. Turn cap counter-clock-wise approximately ¼ turn. A slight hissing sound will indicate the escape of pressure. Wait until this stops before lifting the cap.

c. hydraulic system fluid

The main reservoir is located to the left of radiator. A transparent fluid level indicator, 2 fig. 8, is provided as a guide when checking the fluid supply.

To determine the fluid level, start the engine and let it run at idling speed. Set the height control lever in maximum high position. (Notch **5**, fig. 12).

Wait until car reaches maximum height, then check that fluid level is within the "Maxi" and "Mini" marks. See 2 fig. 8.

The CITROEN hydraulic system uses a heavy-duty brake fluid. If it is necessary to replenish the fluid supply, the following brands are recommended:

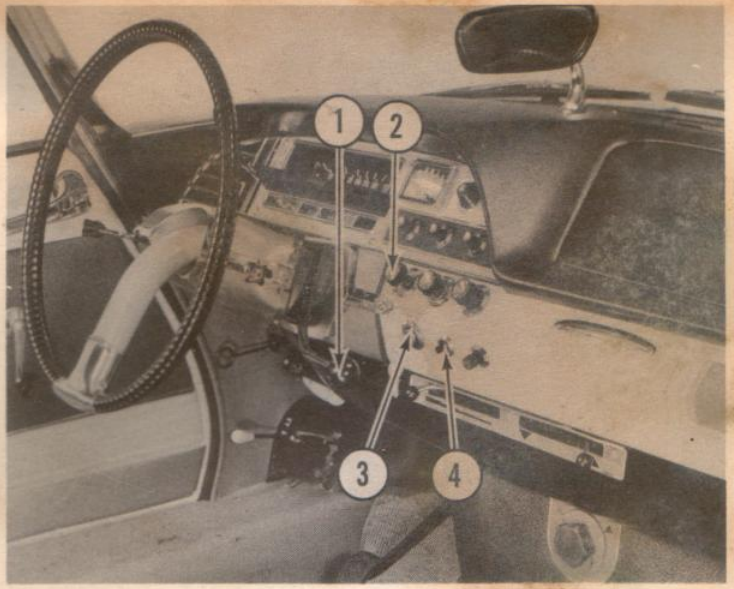
PRESTONE	Super H.D.
MOBILOIL	Super H.D.
DELCO	Super 11
LOCKHEED	Wagner 21B
MOPAR	Hi-Temp.

If necessary, these brands can be mixed with each other. However, it is preferable to always use the same brand.

If it becomes impossible to obtain any of the above brands, it is permissible to use any heavy-duty brake fluid, provided the container in which it is sold clearly states that it meets S.A.E. Specifications 70-R3.

VERY IMPORTANT: Never use any other liquid; particularly mineral based products, such as engine oils, hydraulic jack oil, shock-absorber oil, transmission oil, etc. These products will destroy the hydraulic system of your car rapidly and completely.

starting



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Be sure that the gear shift lever **1** is in "neutral" position and turn the ignition switch **3 on.**

When engine is cold, pull choke knob **2** completely out and press the starter button **4** without touching the accelerator pedal. If the engine does not start at the first attempt, wait three to five seconds and start again.

As soon as the engine has started, progressively push the choke half way IN. Leave it in that position until the engine idles smoothly, then push the choke IN completely. Never overuse the choke and do not race the engine when cold. In very cold weather let the engine idle for a few minutes before driving off.

When engine is warm, press the accelerator pedal completely down without using choke control, then press starter button. If engine does not start at the first attempt, wait three to five seconds (keeping the foot on the accelerator pedal), then press starter button again.

As soon as engine has started release the accelerator pedal.

Before driving off, always let the engine run for a few moments. This will allow the car to stabilize in normal driving position.

Notes:

When car has been garaged for a long time, or if gasoline tank has been emptied, prime the fuel pump by means of hand lever located on the fuel pump. (Approximately 10 strokes.)

Although it is not advisable to use the choke excessively, it is permissible to run the engine with choke control half opened to facilitate maneuvering while parking or to raise car when changing a wheel.

Never run the motor in a closed garage without proper ventilation, since the exhaust fumes (carbon monoxide) are a poisonous and dangerous gas.

using the crank handle

The crank handle may be used in cold weather to free up the engine, or to start engine when battery is too weak.

The crank handle and its extension are stowed under the spare wheel. Insert the extension through the guide under front bumper until it engages the gear box spindle. See fig. 10.

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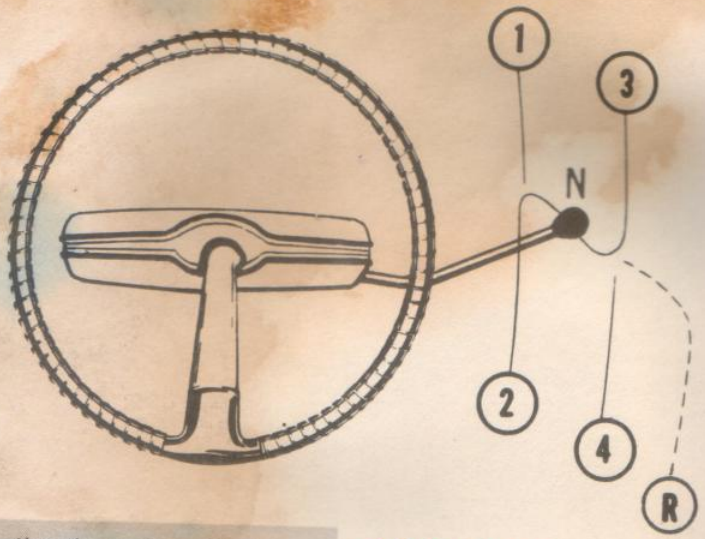


starting the engine with the starter relay

The starter relay is located on the battery positive cable. It is provided for use by mechanics—not by owners. This device permits starting the engine without being obliged to get into the car.

Caution: Before starting the engine with the starter relay make sure that the gear shift lever is in **neutral** position and the **hand brake is on.**

shifting gears

To shift gears, move the shift lever as indicated above. The clutch pedal **4** fig. 11 must be fully depressed between shifting.

Important: Before shifting from First to Reverse or vice versa bring the car to a complete stop.

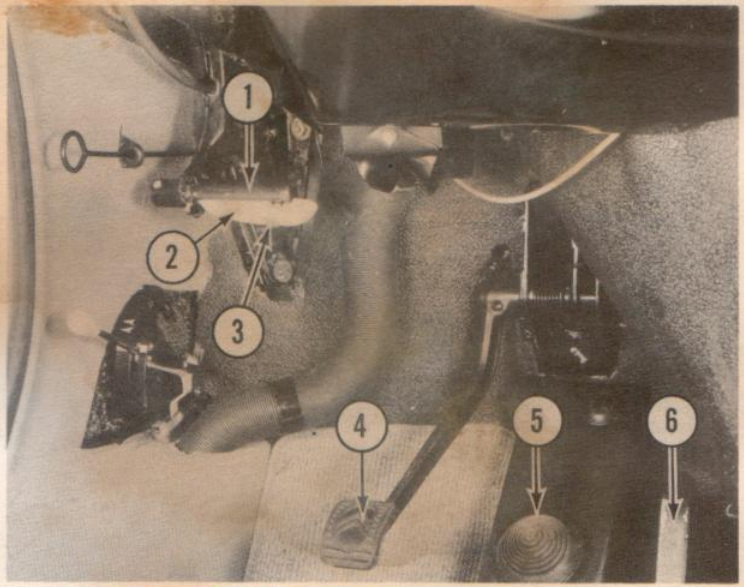
brakes

brakes

The DS Grand Route has two braking systems.

Main brake. No. 5 fig. 11. The power assisted braking action is proportional to the pressure of the foot on the pedal and even in case of sudden stops relatively little pressure is required to bring the car to a halt. Before driving on the open road for the first time it is advisable to test the brakes to become familiar with their response and power.

Parking brake (fig. 11). The parking brake operates on the front wheels only. To apply the parking brake pull handle **1.** It will lock automatically. To release the brake, pull the handle slightly, then squeeze the release trigger **2** and push the brake handle all the way forward.



hand brake and foot controls 11

1 — HAND BRAKE
4 — CLUTCH PEDAL
5 — MAIN POWER BRAKE
6 — ACCELERATOR PEDAL

The brake handle may be **locked** in the parking position if it is so desired. A safety lock **3** when moved a ¼ turn prevents the operation of the release trigger **2.**

When parking on a hill it is essential that the parking brake be applied firmly.

brake security control

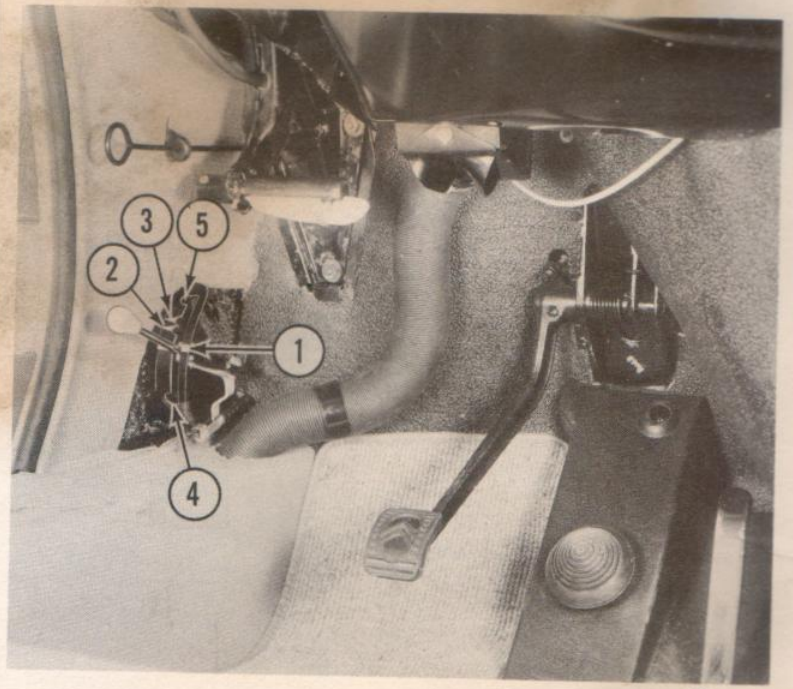
A red indicator **2** (fig. 2) serves as a warning when the hydraulic pressure controlling the main brake becomes insufficient.

When the light appears after switching the ignition on, it is normal. Start the engine. After a few moments the light will go out. Wait until it goes out before driving.

Should the light appear while driving stop the car immediately. There is ample reserve pressure to do so under all circumstances. Without delay, have the hydraulic system inspected by your nearest CITROEN Dealer.

If the circumstances make driving mandatory, do so at speeds below 20 m.p.h., using the emergency brake only.

road clearance



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road clearance adjustment (fig. 12)

To facilitate driving conditions on difficult roads: ruts, snow conditions, sandy surfaces, etc., it is often advisable to increase the road clearance of the car.

The height control lever can be set in three different positions indexed with white marks on the housing in which it moves. When the lever is set in slot **1**, the car is at its normal driving height. When lever is set in slots **2** or **3**, the road clearance is increased accordingly.

Driving comfort is greatest in the normal position. However, the car can be driven when the lever is set in either of the other two positions **2** or **3**.

In addition the lever can be set in two extreme positions.

It can be moved all the way up to **5**, or all the way down to **4**. These two positions are used for jacking purposes when changing a wheel. They must not be used for normal driving. However, it is permissible to raise the car to its maximum height to clear road obstacles, such as snowdrifts, flooded roads, etc. In such circumstances, drive with care, and only far enough to clear the obstacle, then reset the car to its normal driving position or to the height the condition of the road may require.

Use only **Michelin "X"** tires on your CITROEN.

The tire sizes are: 165 × 400.

The life of the tire depends, among other factors, on correct inflation. The correct tire pressures **(COLD)** are:

Front	24 PSI
Rear	20 PSI
Spare	27 PSI

Correct tire pressure not only will insure even wear of the tires, but also will provide the best ride. **Do not over-inflate your tires.**

When mounting the spare wheel, make sure its tire pressure is correct.

fast driving

If you regularly drive at high speeds (over 85 m.p.h.—law permitting), we recommend the following tire pressures:

Front:	29 P.S.I.
Rear:	27 P.S.I.
Spare:	30 P.S.I.

features and comfort

power jacking

changing a wheel

Apply the emergency brake **1** (fig. 11) and set the safety lock **3.**

Let the engine idle during the entire operation.

Remove the tools and spare wheel located under the hood.

If the rear wheel is to be changed, remove the rear fender.

to remove the rear fender:

Loosen the bolt (fig. 13) using the crank handle, as illustrated.

Then with a slight lift, pull the fender to the rear (fig. 15).

Raise the height control lever to position **5** (fig. 12). The car will raise slowly. Wait until it reaches maximum height and proceed as follows:

Remove the hub cap. A special tool serves two purposes:

As a positioning pin, or as a pry (fig. 16).

Loosen the wheel lug with the extension lever end **1**, fig. 14.

Proceed as illustrated in fig. 18 (at this point, loosen the lug, do not remove it).

A stand (fig. 18) is provided to support the car while changing a wheel. Hook the support extension into the stud situated beneath the front door. **Be sure it is firmly seated on the stud.**

The support extension is pierced with a series of holes. Insert the pin as shown in fig. 19 in the hole immediately above the lower stand. Put the manual height control lever to the lowest position **4,** fig. 12. In a few moments the wheel on the supported side will gradually lift from the ground.

Unscrew the lug completely, using the extension lever end **2,** fig. 14. Remove the wheel.

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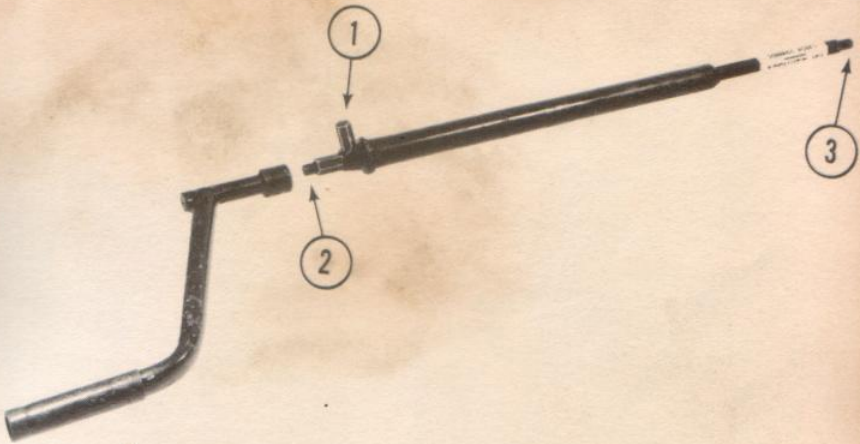

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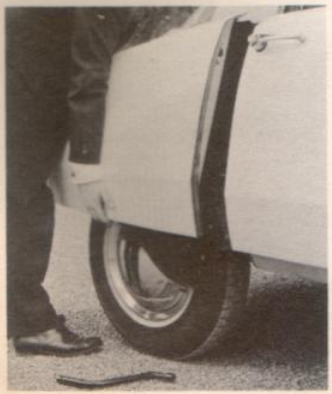

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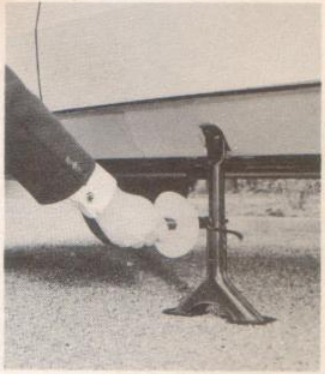

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replacing a wheel

Be sure the hexagonal hub (male) and its seat (female) in the spare wheel are clean. It is advisable to oil these surfaces slightly. Also put a drop of oil under the wheel lug. Place the spare wheel on the hub, pushing it as far as possible.

Tighten the wheel lug with the extension lever (fig. 20).

Lift the manual height control lever to its highest position **5**, fig. 12. Wait until the car levels at its maximum height. Remove the support stand.

Lower the height control lever to normal position.

Tighten the wheel lug thoroughly using the extension lever end **1**, fig. 14. A fairly heavy force should be exerted (approximately 75 lbs.).

Replace the hub cap.

wheels and hubs

When changing a wheel, make sure that the hexagonal (male and female) parts are clean, as well as the wheel and hub surfaces. It is advisable to oil hexagonal parts slightly. Put a drop of oil under the wheel lug nut.

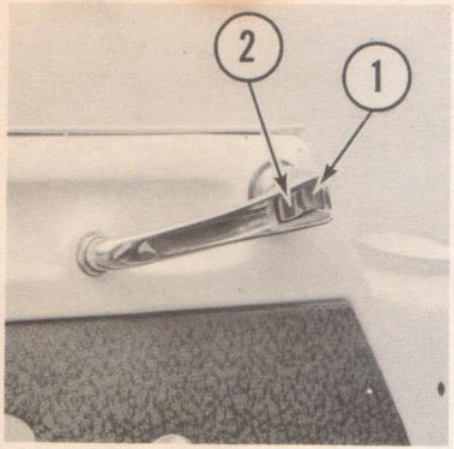
Note: We recommend that you ask your CITROEN Dealer to demonstrate this procedure.

convertible

The Convertible Models are delivered with a different jacking support and the procedure of replacing a wheel varies according to the location of the wheel to be changed. —

Front Wheels: Proceed as described above and hook up the support on the frame stud under the door. Extend the support until it touches the ground by turning the hub by hand. Connect the crank handle to the crank extension as shown in fig. 14 and with the end **3** of the crank assembly, extend the jack base further down to firmly seat it on the ground. Remove and replace the wheel.

Rear Wheels: Because the rear fender of the convertible model cannot be removed, the car must be jacked up higher. Install the jacking support as described above for the convertible front wheels and raise the car with crank assembly until the wheel is well above the ground. Remove and replace the wheel. Replace the hub cap.



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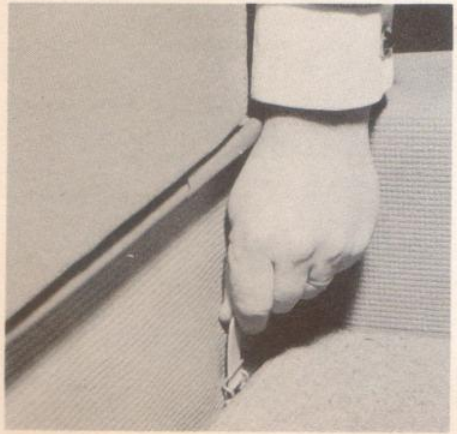

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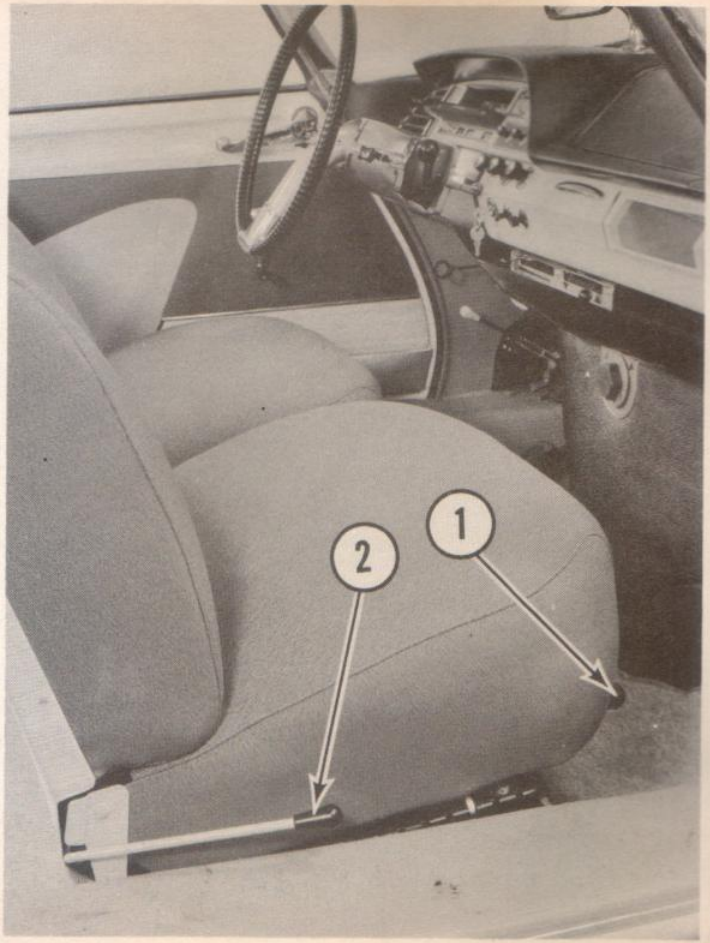

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doors and keys

To open the door from inside, grip the handle (fig. 21); then press the catch **1** with your thumb, and push the door open.

When a rear door is closed, lock it by moving the catch **1** forward. To unlock, press button **2**. When fully opened, the doors are held by a retractable door check. This facilitates getting in and out of the car.

The two front doors must be locked with the key and cannot be locked from the inside.

keys

Two keys are supplied with the car. The code number of the lock is stamped on each key. It is important to have on record this four digit number. Should you decide to order additional keys, always specify the code number.

carpets (fig. 22)

The front and rear carpets are installed by inserting the three plastic tabs into the spring clips located on the face of the seat platforms.

To remove the carpets, simply lift the tabs from the clips.

front seats (fig. 23)

Both front seats can be individually adjusted for best posture and comfortable driving. They can also be converted into beds.

— To bring a seat cushion forward or backward, turn from right to left the latching lever **1**. Then move the seat to the desired position and release the lever to lock the seat on its tracks. The range of adjustment is 6 inches.

— To change the back rest angle, simply lift the side lever **2** while leaning backward or forward. Release the lever to lock the backrest in the desired position.

— To convert a seat into a bed, first move it completely forward. Then lift lever **2** and tilt the backrest all the way down.

Note: The front cushion height or angle may be modified if it is so desired. See your CITROEN Dealer.

seat belts — optional

Twelve anchoring points are provided on every car. These will enable you to install the seat belts on each or all of the front or rear seats. For installation and use see your CITROEN Dealer.

convertible:

The adjustment of the Convertible front seats is the same as on the sedan model but in addition they can be tilted forward. To do this simply move the latching lever on the side of the seat rearward and tilt the seat forward.

interior lights

The switch **5** (fig. 1) controls the interior lights. The lights will go on automatically when either front door is opened.

trunk light

This light will automatically go **on** when the trunk lid is open and when the light switch **2**, fig. 1 is in position **"V"** or **"R"**.

front ash tray

To empty the tray, pull it completely and lift while still pressing on the spring catch.

electric clock

To set the clock to correct time, press and turn the button on the dial.

sun visors

Both sun visors slide on their spindles and can be moved according to the direction and angle of the sunlight. They also can be swung around to mask the top of the door windows.

The passenger's sun visor is fitted with a mirror.

"day and night" rear view mirror

The rear view mirror is of the day and night type. It can be set in either of the two positions without changing its angle. To avoid headlight glare from the rear, simply tilt the lower edge to the "night" position.

glove compartment

The glove compartment lid is held by a magnetic catch **7** (fig. 26). Pull to open.

map pocket — radio

Located under the glove compartment, may be used for radio installation. Consult your CITROEN dealer.)

fuse boxes—7 positions (fig 24)

Two separate junction blocks are located on the upper engine fire wall.

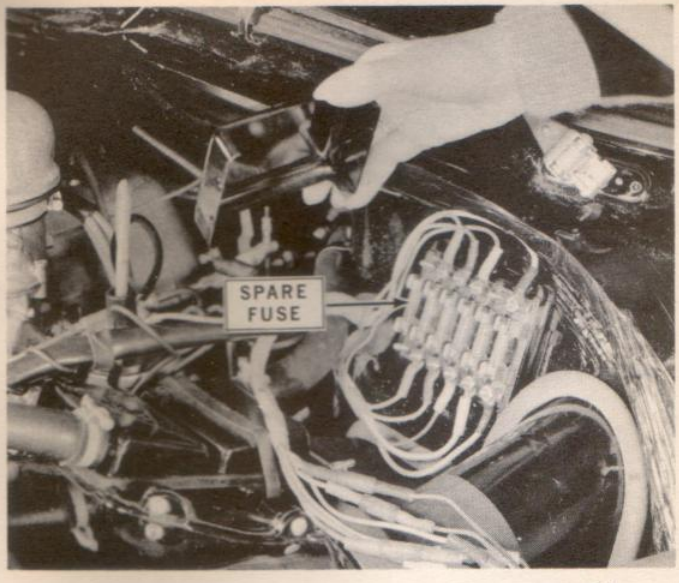
The left side unit contains 5 active fuses and one spare fuse. Active fuses are from left to right by terminal color.

1. Blue—Heater Fans and Interior Light
2. White—Windshield Wiper Motor
3. Yellow—Left side High Beam
4. Green—Left Side Low Beam
5. Red—Directional and Parking Lights

Spare Fuse

The right side unit contains 2 active fuses

6. Yellow—Right side High Beam
7. Green—Right side Low Beam



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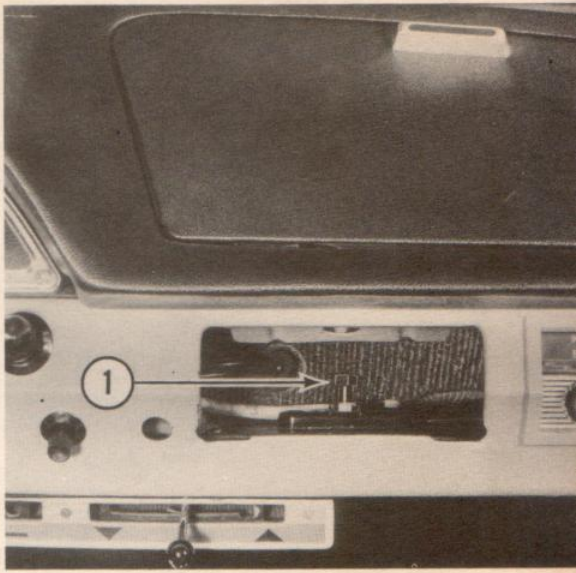

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All fuses are rated 30 amps each.

Note: Always shut off the engine and disconnect the corresponding circuit before replacing a blown fuse.

If after having replaced a blown fuse by the spare, this spare fuse blows again, contact your Citroen Dealer.

accessory terminal

If additional 12 volts electrical accessories are to be installed such as radio, fog lamps, back-up lights, etc., the serviceman should be advised to use the special terminal 1 (fig. 25) provided for this purpose behind the ashtray. This terminal is suitable for a 10 amp. current draw.

ventilation and heating

An air intake is located in the front of each fender. These provide fresh air for ventilation, heat, defrosting and demisting. Depending on the comfort desired, this air intake can be controlled to provide fresh air ventilation or heat separately, or simultaneously.

ventilation (fig. 26)

Two vents on the right and left of the dashboard admit fresh air into the car. The volume of the air and the direction of its flow can be regulated.

Lever **2** controls the amount of air admitted. Raise the lever to increase the air intake; lower it to decrease or shut off the intake.

Figure 26 illustrates the left side controls. The right side air controls are identical.

The air deflector control lever **1** directs the air stream, as desired:

In high position toward the roof.
In low position toward the driver's or passenger's head.

Lever **3** allows the air stream to be directed toward the feet. In high position it is open. In low position it is closed. This lever works independently of the two other controls.

In warm weather, the dashboard vents may be supplemented by using the heating circuit to increase ventilation. This is done by closing the heater valve **6** (fig. 26) and switching on the fan control **12.** This supplementary ventilation can be utilized for demisting the windshield and the front door windows.

An auxiliary blower and heater core is incorporated in the system to maintain the flow of fresh air or heat while the car is at a standstill. The fresh air intake is controlled by the lever **3.** The hot air (heat) intake is controlled by the lever **4.**

Note: When driving in heavy traffic or tunnels, it is advisable to temporarily close the fresh air intake. This will help to eliminate the penetration of the exhause fumes from the preceding vehicles.

heating and defrosting (fig. 26)

A heating control valve **6** regulates the amount of hot water which circulates in the heater core. It is open when turned to the left (red triangle); closed when turned to the right (blue triangle). Between these two extreme positions, the temperature in the car can be adjusted, as desired. The amount of warm air can be increased by pulling the fan control **12.**

How to operate:

Be sure that the heating control valve **6** is opened. The lever **4** controls a vent which regulates the amount of warm air coming in: to the left it is fully opened; to the right, it is closed.

The lever **5** allows the hot air to be divided between heating and defrosting. Pushed to the right

most of the hot air is directed into the defrosting ducts. Pushed to the left the hot air is directed into the heating ducts. Between these two limits, the defrosting and heating can be balanced as desired.

optional heavy-duty heater

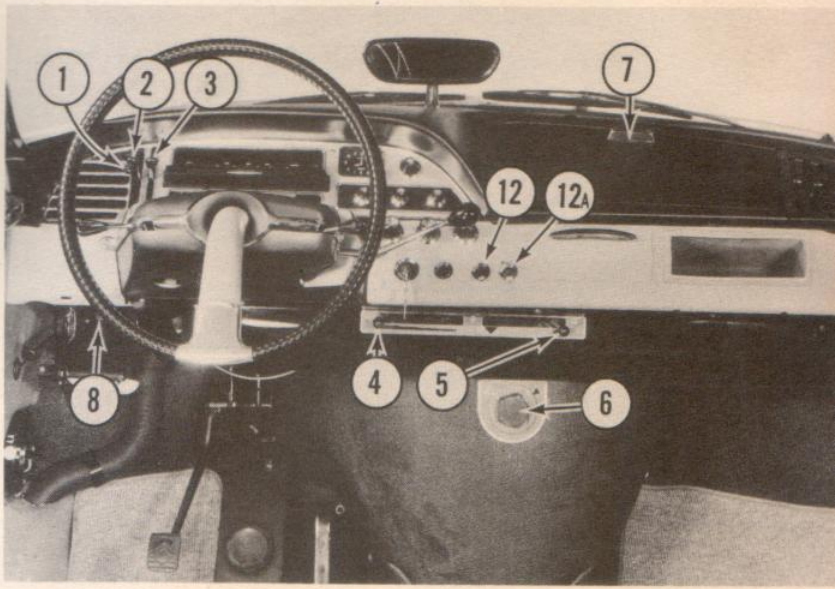
This optional equipment includes:

Side window defrosters fed by the main defrosting system.

— A second blower switch number **12A.** When in operation, it supplies hot air to the **REAR** outlet.

— An adjustable **SHUTTER** controlled by a **PULL CHAIN 8** on the left side of the Dashboard.

To supplement the heat efficiency in very cold weather, operate the **SHUTTER** by pulling the **CHAIN** more or less out.



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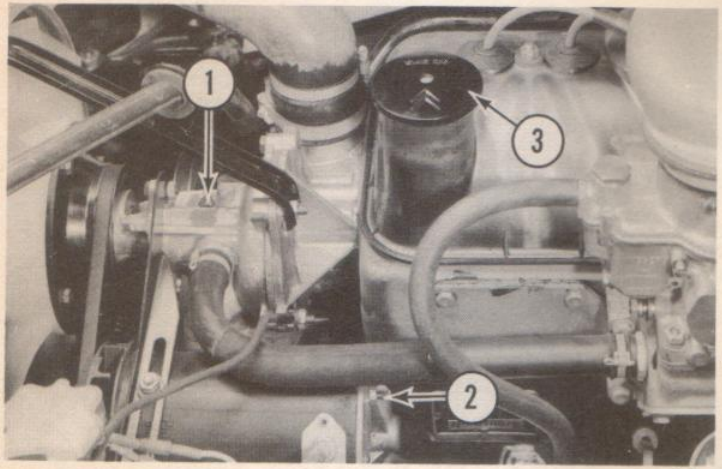
When the Chain is completely pulled out, the outside air intake is at a minimum and the Heat Range is the highest.

Caution: Temperature Gauge should be watched to make certain that the Engine is not overheating.

Note: With the Heavy Duty Heater, the capacity of the Cooling System of the car is increased to 16 Quarts.

lubrication and maintenance



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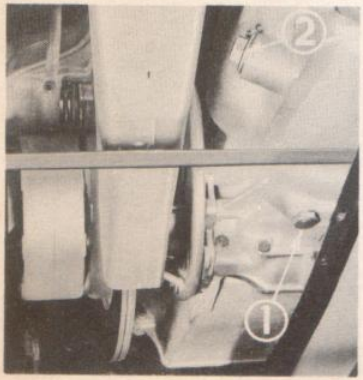

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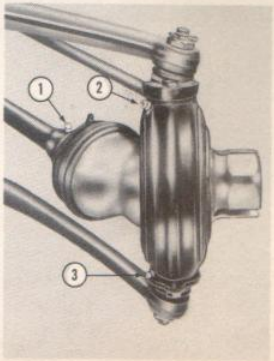

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Periodic Maintenance and scheduled inspections as outlined in the Warranty and Maintenance Booklet are of major importance.

This booklet is provided with every new vehicle. See page 3: **Guarantee.**

choice of lubricants

Not every type of oil is suitable. Be sure the oil you use is of the right type and of a quality brand name.

Do not mix different types of oils. CITROEN Distributors and Dealers carry a chart of oils and greases recommended for your car. **Do not use any additives** with these oils without the advice of your Authorized CITROEN Dealer.

lubrication

engine lubrication

Drain the crank case with the engine **warm** every 2,400 miles and refill with **4 qts.** of **10 W-30 multigrade oil in both summer and winter.**

We recommend the use of 20 W-40 multigrade oil in countries where temperatures frequently rise above 86°F.

In areas where winter temperatures fall below 0°F, use 5 W-20 multigrade oil.

Caution: Never run the engine, even on the starter, when the crank case is empty.

gear box (fig. 28)

Every 3,600 miles check the gear box oil level. It must be level with the edge of the filler cap **2.** If necessary, replenish with **S.A.E. 90 "extreme pressure" oil.** Every 12,000 miles, it is advisable to have the gear box drained by a CITROEN Dealer. See drain plug **1.** Capacity 2 qts.

changing hydraulic brake fluid

The hydraulic system should be drained every 20,000 miles by your CITROEN Dealer.

grease fittings and oil caps

Every	Lubricate	Figure	Lubricant
1200 mi	**Drive shaft** (one fitting on each side)	**1,** fig 29	**Chassis Grease**
1200 mi	**Upper and Lower swivel joints** *	**2, & 3,** fig 29	**Chassis Grease**
1200 mi	**Steering relay joints** (one fitting on each side)	——	**Chassis Grease**
1200 mi	**Fan Shaft Bearing Oil Cap**	**1,** fig 27	**Engine Oil**
3600 mi	**Rear Generator Bearing Oil Cap**	**2,** fig 27	**Engine Oil**
3600 mi	**Distributor Shaft.** Apply one or two drops only to the felt pad under the rotor	—	**Very Light Oil**

*** Important: Only moderate pressure should be used. It is preferable to use a hand grease gun.**
Two fittings (not illustrated) are located on each side of the anti-roll bar behind the front mud guards. These fittings should be lubricated by your Authorized Citroen Dealer every **12,000 miles** or every time the mud guards are removed. Use chassis grease.

maintenance

battery

Check the water level regularly, particularly in the **summertime.** It should be approximately 3/8" above the plates in each cell. If necessary, add **distilled water only. Never add acid.**

After a period of time, the battery terminals may become slightly sulphated. To remedy this, disconnect the terminal clamps. Remove the insulating felt washers. Wash the sulphation from the clamps and terminals with clear water. Replace the felt washers after soaking them in caster oil. Replace the clamps tightly on their terminals.

brakes

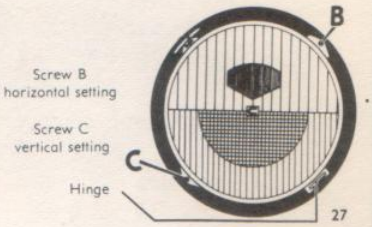
The front brake linings automatically compensate for wear when the parking brake is applied.

Every 12,000 miles have the front and rear linings checked by your CITROEN Dealer.

headlight adjustment

To adjust the headlight, remove the rim. Grip the two holes at the bottom and snap the rim out. The horizontal aim is adjusted by screw "B".

The vertical aim is adjusted by screw "C".



replacing a sealed beam unit

Remove the rim.

Lift mounting spring clip (left of center). Pull out the unit. Disconnect wires. Remove inside ring by loosening the two small metal screws.

To replace a new unit reverse the above procedure.

carburetor (fig. 30 & 31)

Model: Double Barrel WEBER 24/32 DDC. A1.

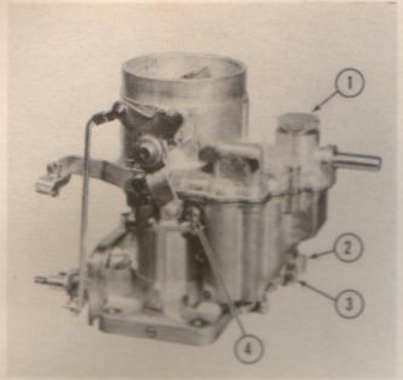
This modern high precision unit will practically never lose its adjustment. **THE ORIGINAL FACTORY SETTINGS SHOULD NEVER BE ALTERED OR CHANGED.** It will usually require no maintenance except an eventual cleaning of the fuel filter screen. To do this, remove the screen by loosening the Nut **1** and clean it in gasoline then blow dry with compressed air.

Main and Idling Jets: Although the main and idling jets of each barrel appear to be identical, they have a different calibration and therefore **ARE NOT INTERCHANGEABLE.**

Caution: To avoid incorrect installation. It is advisable not to remove them. If they **MUST** be inspected, identify and reach as follows.

Main Jets: Loosen the head nuts **2** and **3.**

Idling Jets: Loosen the screws **4** and **5.**



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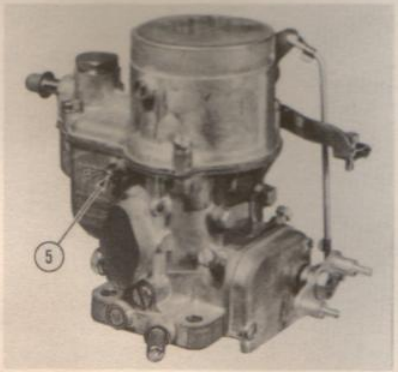

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door windows

To insure easy sliding of the windows, have a CITROEN Dealer apply two coats of special varnish or silicon compound on the rubber.

cleaning hints

Body — To protect the exterior finish of your car, wash it often. Road tar and various dirts, if allowed to stay extensively, are hard to remove and may damage the paint. Wash the car with water and mild soap. Flush with clear water abundantly. If you wish to wax or polish your car, use quality brand names of products only.

Upholstery — When cleaning the upholstery never use very strong products such as benzine, trichlorethylene, etc. Strong products when improperly handled will not only damage the rubber padding of the upholstery but may set some stains permanently especially when the nature of the stain is unknown. Use only mild products and rub lightly with clean and well squeezed pads.

convertible seats and top:

Seats: Prepare a solution of lukewarm water and mild soap to form abundant foam. With the foam alone, rub the dirty spots several times with a sponge. Wet the sponge in clear water and wipe out the remaining foam. Always prevent the water entering the seams which could damage the padding and the seams.
Top: Proceed in the same manner as for the seats, but rinse the top with clear water abundantly.

convertible top

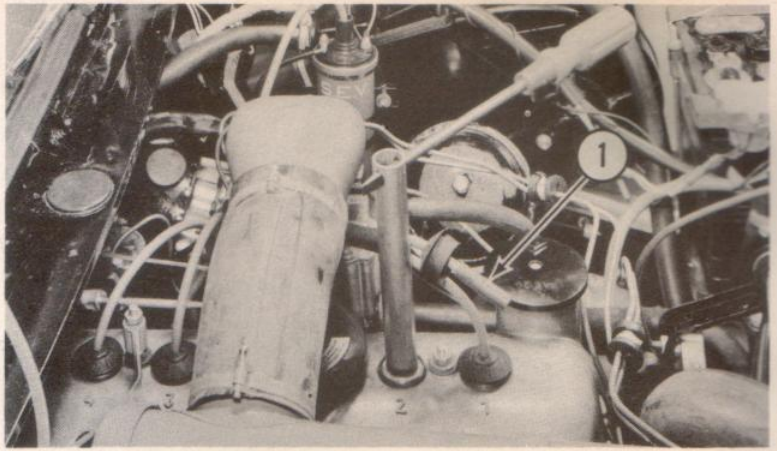
The top is entirely collapsible into the well surrounding the rear seats.
To **open** the top first unzip the rear plastic window and lay it flat in the empty well. Then unlock both latching handles on the upper side of the windshield frame and fold the top in the well. Make sure not to squeeze the material. Snap on the cover above the well.
To **close** or raise the top, reverse the above procedure.
Note: If you drive with the top raised and the rear window open, make sure to carefully lay the plastic window in the well. A good practice is to roll it.

filters

The Carburetor Air Filter and Valve Cover Breather—should be cleaned every 3,600 miles. See instructions printed on the covers.

The Fuel Filters—In addition to the carburetor filter, which may be removed and cleaned (see Carburetor) a second filtering element is located in the fuel pump. Do not try to remove this unit yourself; have it cleaned by your CITROEN Dealer.

The Hydraulic System Filter — It is located at "1" (fig. 8). Have it cleaned by your CITROEN Dealer every 6,000 miles.



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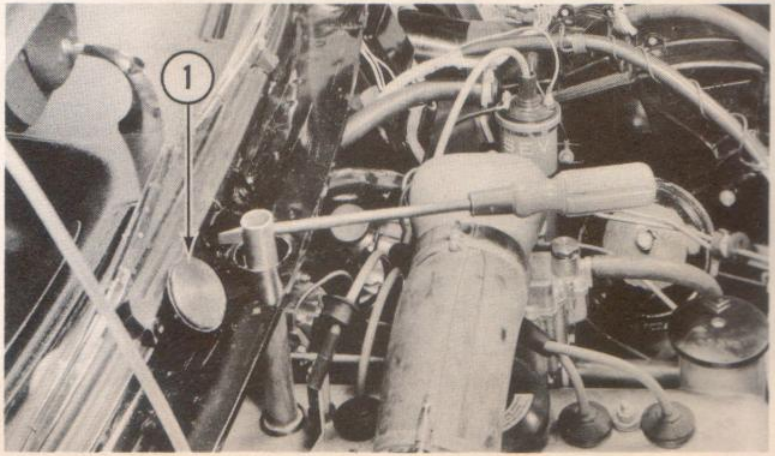

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replacement of spark plug (fig. 32)

Proceed as follows:

Disconnect the secondary terminal **1.**

Disconnect the Rubber dust cap. Disconnect the Insulation cap.

A 13/16" socket type wrench is provided as standard equipment in the car tool kit. Insert this wrench into the spark plug well and engage the plug. Insert a screw driver into the hole provided at the top of the wrench and turn sharply counterclockwise.

If replacing a new plug, fit it with the center electrode extension and insulating jackets removed from the old spark plug.

to remove the fourth spark plug (fig. 33)

A hole is provided in the center of the drain shelf to permit access to the 4th spark plug. Remove the rubber sealing plug **1.** Be sure to replace it after installing the spark plug.

winterizing

1. Between the months of October and April, cars are delivered with sufficient anti-freeze to protect the cooling system to 5°F below zero. Cars delivered between the months of April and October are protected to approximately 40°F.

Should it be necessary to further increase the protection of the cooling system, consult your local CITROEN Dealer. CITROEN dealers are kept informed on suitable brands of anti-freeze solutions and their method of use. The draining of the cooling system is a **delicate** operation.

To drain the radiator, open the petcock located at its lower right side.

To drain the cylinder block, remove the hexagonal plug located just below the oil dipstick tube. In very cold weather, the engine should be allowed to idle a few minutes before accelerating, in order to insure through mixing of the water and anti-freeze.

We recommend that the anti-freeze solution be kept in the cooling system the year round, regardless of its concentration.

It is advisable when totally or partially draining the cooling system, to add rust inhibitor (soluble oil) to the extent of ½ of 1% of the total cooling system capacity. Check with your Authorized Citroen Dealer to be certain that inhibitor has been originally added to the anti-freeze you will use.

precaution when draining cooling system:

If the cooling system has been completely drained, the following precautions should be observed when refilling:

— Be certain the control valve **6** (fig. 26) is fully opened.

— Start the engine and accelerate several times to insure complete filling of the system.

battery

The best protection against frost is to keep the battery fully charged. A normally charged battery (Acid S.G. 1210) will withstand a temperature of 20°F below zero. A weak battery may burst. It cannot be repaired.

windshield washer

In cold weather, add proper solution to prevent freezing.

towing the car

Should it be necessary to have the car towed by another vehicle, the towing cables may be attached to the lower right and left suspension arms **only.**

The cables must be sufficiently padded to protect the front gravel shield.

The towing speed must be low.

Never attach cables to the bumper for towing purposes.

loading the car

Should you decide to send your car by Trailer or by Ship, the following instructions must be given to the Shipper.

loading on trailer

— Wide loading ramps are to be used. See track dimensions on page **6.**

— The car must be driven on and from the Trailer in high position—notch **5** fig. 12.

— Before the car is fastened down it must be lowered — notch **4** fig. 12.

— Fastening points:

Front — main tention — use lower Suspension Arm **only**— see fig. 29.

Rear— moderate tention — use loops on chassis.

loading on ship

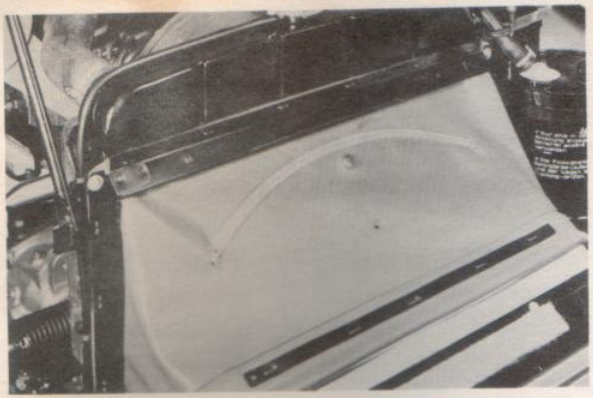
— The car is to be lifted by the wheels or on a Platform, **NEVER BY THE FRAME.**

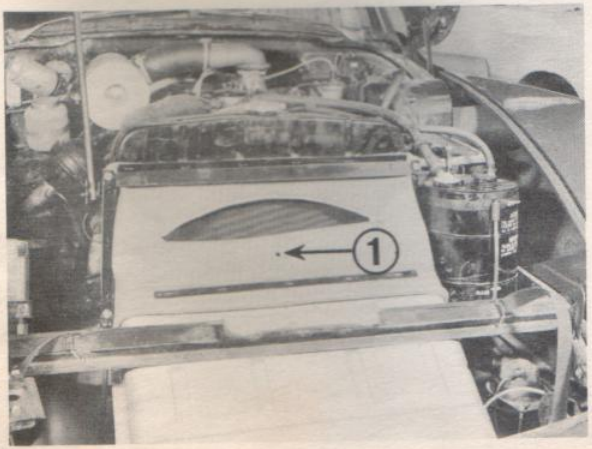
Note: Prior to the loading operation it is advisable to remove the rear fenders. They can be stored inside the car.

some metric conversions

10 U. S. Gallons	37.8 Liters	8.3 Imperial Gallons
100 Miles	160 Kilometers	
62 Miles	100 Kilometers	
10 Yards	9.14 Meters	
1 Inch	2.5 Centimeters	25 Milimeters
2.2 Lbs.	1 Kilogram (Kg)	
20 Lbs. sq. in.	1.4 Kg. sq. cm.	
24 Lbs. sq. in.	1.7 Kg. sq. cm.	
100° F.	37.7° C.	

radiator — (Cleaning)





A zipper is provided on the vinyl section of the air intake shroud. When open, it will facilitate inspection or cleaning of the radiator core as well as the lower metal section of the shroud.

IMPORTANT — The car should never be driven with this zipper open. In exceptional cases, for example when the air flow is obstructed by a very thick blanket of snow, you may drive with this zipper open, thus providing additional ventilation. In this case, hold the flap open by means of a snap-on button (1).

personal notes

personal notes

S. A. ANDRÉ CITROËN, 117 A 167, QUAI ANDRÉ-CITROËN, PARIS-XV^e, FRANCE

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