HANDBOOK OF INSTRUCTIONS FOR THE JENSEN C-V8 MK.III



This handbook is published for the use and assistance of owners of JENSEN CARS. It embodies in a concise form the advice and suggestions of the Company's Technical Staff in regard to lubrication, general care and maintenance, together with supplementary information regarding the necessary adjustments which may be required from time to time.

COMPILED AND PUBLISHED BY

JENSEN MOTORS LIMITED WEST BROMWICH, ENGLAND

Telephone: West Bromwich 2041 (10 lines) Telegrams: Expert Telex: 33526

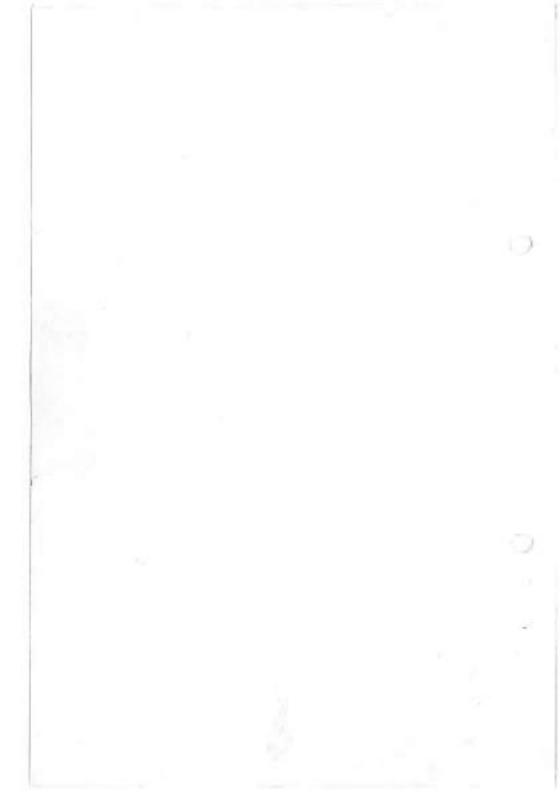
The Chassis Serial Number will be found on the identification plate lixed to the front of the scuttle, and also on the underside of the companion box lid.

N.B. The full Chassis Serial Number must be quoted in all correspondence.



VEHICLE PARTICULARS

CHASSIS NO.
ENGINE No.
KEY Nos.:
Ignition, Shroud and Door
Boot and Cubby Locker
REGISTRATION No.
ORIGINAL DATE OF DELIVERY FROM WORKS



Foreword

The Jensen C-V8 is designed and built to high standards of precision and quality. Every car when it leaves the works has been thoroughly tested and adjusted by experts.

However, in order that the car may give the utmost satisfaction, it should receive adequate care and attention, and for this reason the instructions given in this handbook should be observed.

In compiling this handbook some knowledge of the operation and care of a motor car have been pre-supposed. All descriptions of position are relative to the driver's seat.

It is the aim and ambition of Jensen Motors Limited that every owner shall be completely satisfied. For this reason, Jensen dealers are chosen with particular care, and can be relied upon to carry out any servicing or repairs.

Alternatively, the Jensen Service Department at West Bromwich is always at the disposal of any owner, and all communications in connection with service matters should be addressed to the Service Manager.

JENSEN MOTORS LIMITED



General Dimensions and Data

The chassis number will be found stamped on a plate secured to the underside of companion box lid and on a plate secured to the front of the scuttle. This number is also stamped on the front of the chassis frame front cross member. The engine number is stamped on the L.H. bank of the cylinder block immediately forward of No. 1 Cylinder.

Cylinders are numbered as follows:-

```
R.H. Bank Front to Rear 2-4-6-8
                         L.H. Bank Front to Rear 1-3-5-7
Bore
                         108 mm. (4.25 ins.)
Stroke
                         86 mm. (3.375 ins.)
Cubic Capacity
                         8,276 cc. (383 cu. ins.)
B.H.P.
                         330 at 4,600 r.p.m.
Compression Ratio
                         10.1
Firing Order
                         1-8-4-3-6-5-7-2
Coolant Capacity
    including Heater
                         32 pints (Imp.), 38 pints (U.S.), 18.2 litres
Oil Sump Capacity
                         8 pints (Imp.), 10 pints (U.S.), 4.7 litres
                         including Filter.
                         (Dipstick top level must not be exceeded).
                         Engine Oil Pressure at 40/50 m.p.h. 45/65 p.s.i.
Gearbox Capacity:
    Automatic
                         17 pints (Imp.), 20 pints (U.S.), 9.5 litres
    Manual
                        6 pints (Imp.), 7 pints (U.S.), 3.3 litres
Rear Axle Capacity
                         3 pints (Imp.), 3.6 pints (U.S.), 1.705 litres
Fuel Tank Capacity
                         16 galls. (Imp.), 19 galls. (U.S.), 72 litres
OVERALL GEAR RATIOS:
    Automatic
                         181
                                     7.5 : 1
                         2nd
                                     4.44 : 1
                        3rd
                                     3.07 : 1
                        Reverse
                                     6.74 : 1
    Manual
                                     8.16 : 1
                        1st
                        2nd
                                     5.86 : 1
                        3rd
                                     4.26 : 1
                        Top
                                     3.07 : 1
                                     7.92 : 1
                        Reverse
                        Dunlop 6.70 x 15 Read Speed
Tyres
Tyre Pressure
                        24 p.s.i. (1.68 kg./sq. cm.) all round (see Notes
                             on Wheels and Tyres, page 20)
Wheelbase
                        8 ft. 9 ins. (2.667 metres)
Track (Static laden
    weight):
                        Front: 4 ft. 713 ins. (1.417 metres)
                        Rear: 4 ft. 8 ins. (1.445 metres)
Toe-in (Static laden
    weight):
                        # ins. (1.5875 mm.)
Camber (Static laden
    weight):
                        1" pos.
Castor Angle (Static
    laden weight):
                        2° pos.
King Pin Inclination
                        6° 30'
Centre of Gravity
                        49 ins. (124.46 cm.) aft of front axle
Overall Width
                        5 ft. 7 ins, (1.714 metres)
```

Overall Height Overall Length Ground Clearance Turning Circle Weight (dry) Steering Ratio

IGNITION TIMING CONTACT BREAKER GAP

SPARK PLUGS VALVE CLEARANCES OIL SUMP CAPACITY 4 ft. 7 ins. (1.397 metres) 15 ft. 3½ ins. (4.686 metres)

5 ins. (14.6 cm.) 38 ft. (11.592 metres)

29 cwt. (14/3.2 kilogrammes) 17,2 : 1 (3.3 turns, lock to lock) 10° before T.D.C. at 500 r.p.m.

.014 ins. to .019 ins. (.35 mm. to .48 mm.)

Champion J10Y. Gap .035 ins. (.89 mm.)

Zerolash. No adjustment required It is important that sump should not be filled above the high level mark on the dipstick, otherwise functioning of zerolash tappets may be impaired.

INSTRUMENTS AND CONTROLS

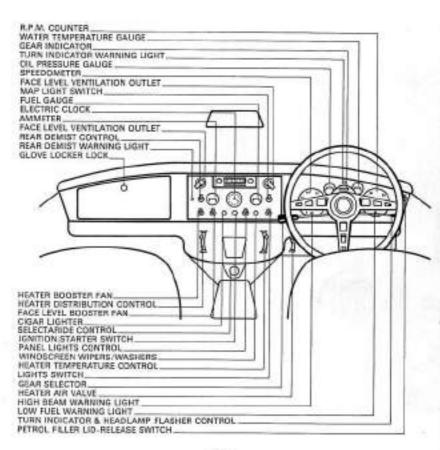
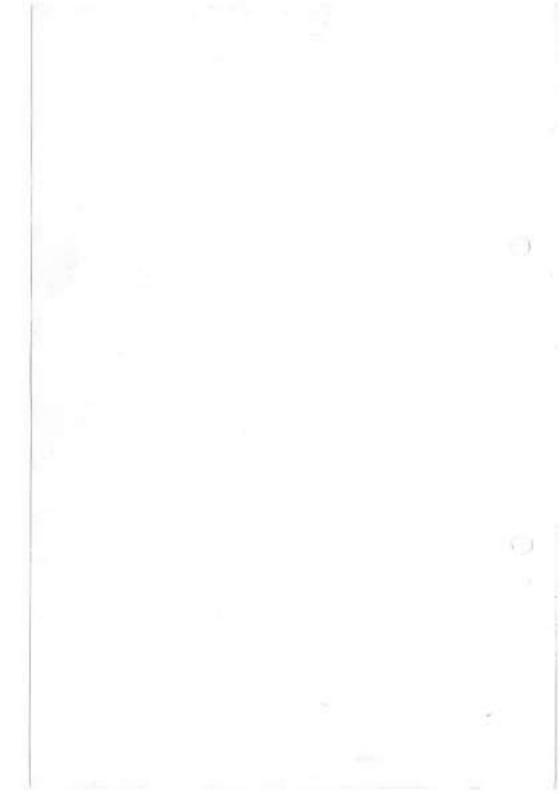


Fig 1



Controls and Instruments

Pedals

On cars fitted with automatic transmission, only two pedals are used in driving the car. The right-hand pedal controls the accelerator, and the centre, broad pedal, the brake. The left hand pedal operates the dipswitch and provides a footrest. With the manual gearbox the pedal controls follow the conventional arrangement.

Handbrake

The handbrake is centrally located and operates self adjusting mechanical brakes on the rear discs only. A thumb-operated ratchet release is incorporated in the handle.

Steering Wheel

The 17" steering wheel is adjustable on its shaft, to suit individual requirements. Adjustment is effected by the black sleeve immediately below the wheel. The sleeve is loosened by turning it in a clockwise direction. When loose, the steering wheel can be moved up or down to the desired position, and re-locked by turning the sleeve anti-clockwise. (There are four holes toward the lower end of the sleeve, and a 7k" Tommy bar may be used in these if necessary).

Ignition and Starter Switch

The ignition and starter are both controlled by a single switch with a removable key.

Turning the key clockwise switches on the ignition circuit and the ammeter, fuel gauge, and water temperature indicator. Turning the key further clockwise against spring pressure will operate the starter motor. As soon as the engine starts the key should be released.

Choke

The carburettor incorporates an automatic choke (See Starting-up section on page 8).

Cigar Lighter

The cigar lighter is operated by pushing it in as far as it will go. After approximately 10 seconds it will pop out, and is then hot enough for use.

Fan Switch

The three-position fan switch controls the two speed heater fan (See Heating Section page 23).

Panel Light Switch

The three-position panel light switch controls the panel lights giving two levels of illumination. The panel lights are in circuit with the main lighting switch, and will not work until the sidelights are on.

Main Light Switch

The sidelights and headlights are controlled by a three-position switch on the facia. In the half-way position it will bring on the sidelights, and in the fully down position the headlights. Once the headlights are on, high or low beam should be selected by the foot dipper switch.

The headlights may be flashed by pulling backwards on the

direction indicator lever.

The Direction Indicators

The direction indicators are operated by a lever on the right of the steering wheel. To indicate a turn, the lever should be moved the same way as the steering wheel. The direction indicators are self-cancelling after the turn has been completed. A visual indication is given to the driver by the green light on the facia. Pulling backwards on the lever flashes the headlights.

Windscreen Wipers and Washer

A dual purpose switch on the facia controls the windscreen wipers and washer. If the switch is turned clockwise to the first position, the wipers will operate at normal speed: turning it further increases the speed of the wipers. The higher speed should not be used on a drying screen, as this will overload the motor.

The wipers are self-parking when switched off.

The windscreen washer, which is of the electric type, is operated by pressing the knob of the wiper switch.

Gear Selector and Indicator (Automatic trensmission only)
The gear selector and indicator are mounted on the steering column. Five positions are marked on the indicator R N D 2 1.
The engine can only be started when the lever is the "N" position (See Starting and Driving Section pages 8 & 9).

Clock

The electric clock is set by the knurled knob on the bezel, which should be pushed in to engage the hands. If necessary, the clock may be regulated by turning the small screw head in the bezel, clockwise to retard, and anti-clockwise to advance.

Map Light Switch

A Map light is fitted in the upper facia roll above the left hand face-level ventilator and is controlled by a switch on the facia marked "map".

Face-level Air Booster Switch

The switch marked "Air" on the facia operates a fan which increases the fresh air output at face level.

Rear Demist Switch and Warning Light

This switch controls the electrically heated back light. (The current to the rear light is cut off when the engine cooling fans come into operation, so the demist warning light goes out, and comes on again when the fans cut out).

Re-fuel switch

The re-fuel switch automatically unlocks the fuel filler flap on the left hand rear wing. Should the solenoid fail, the flap can be opened manually from inside the luggage boot. (See Fuel System section page 12).

Horn Push

The twin horns are operated by the push button in the centre of the steering wheel.

Selectaride Switch

The Selectaride switch on the transmission tunnel controls the settings of the rear dampers. Four settings are available, from SOFT up to 4. The harder settings should be used for high speeds, or when the car is fully laden.

The switch works in a CLOCKWISE direction only, and should not be used unless the ignition is switched on.

Revolution Counter

The revolution counter has a red sector from 5100 RPM to 6000 RPM and engine speeds in this sector should not be sustained. Maximum engine power is developed at 4600 RPM, so no advantage will be gained by over-revving the engine.

There is a low-fuel warning light in the rev-counter face. This glows continually when 3 gallons only remain in the tank.

Speedometer

The speedometer incorporates trip recorder and odometer. To set the trip, the knob to the right of the steering column and below the facia should be pressed upwards and turned anti-clockwise. In the speedometer face is a high-beam warning light which glows when the headlamps are in the raised position.

Ammeter

The ammeter indicates the charging or discharging rate of the battery. Under normal running conditions a small charging rate is indicated.

On starting the engine, the ammeter will indicate a high charge rate for a short time, and then fall to suit the battery condition.

Oil Pressure Gauge

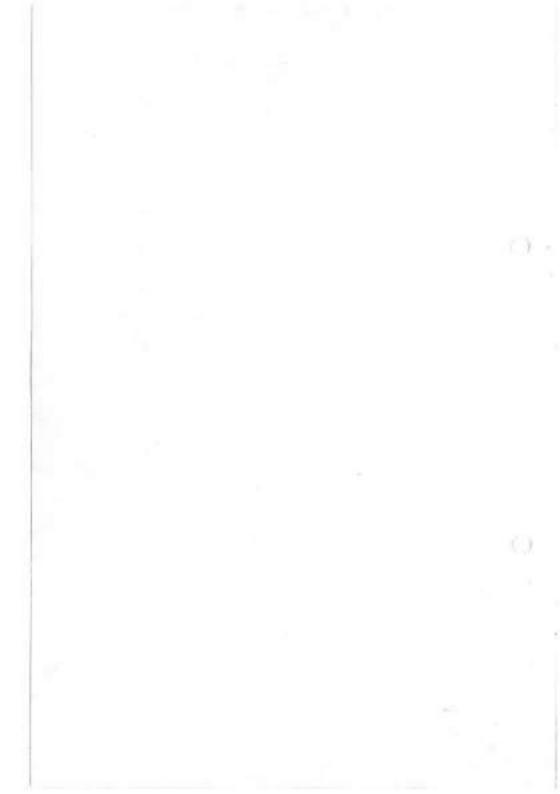
The oil pressure gauge operates only when the engine is running, and should indicate a pressure of 45-65 p.s.i. under normal conditions.

Coolant Temperature Indicator

The coolant temperature indicator operates only when the ignition is on. Under normal running conditions, the instrument pointer should be within the white band on the scale. If the pointer enters the red band—H—the cause should be investigated. **DO NOT** remove the radiator cap when the engine is hot. (See Cooling section on page 16).

Fuel Gauge

The fuel gauge indicates the petrol level in the tank shortly after the ignition is switched on.



Starting Up and General Running Hints ENGINE RUNNING-IN PERIOD

It is not necessary to drive the new car at consistently low speeds during the first few hundred miles of operation. Precision manufacturing methods and improved design make it possible to begin

driving in a normal manner,

While speeds in excess of 50 miles an hour should be avoided for the first 300 miles, occasional spurts up to this speed (after the engine is warmed) will materially assist the "running-in" process. After 300 miles of driving, occasional bursts of higher speed are not only permissible but desirable. The new car should not, however, be operated at top speed until if has been driven at least 500 miles. High speed should always be avoided until the engine is warmed up to operating temperature.

During the "running-in" period it is extremely important to keep close watch on the engine oil level and the panel instruments especially the temperature and oil pressure gauges. Sustained high engine speed should be avoided during early life of the new car so that all parts will become adjusted to their position without

excess friction and heat.

The observance of these precautions will be reflected later on in the prolonged life of the car. Under this heading, lubrication is by far the most important item. Many troubles are directly traceable to lack of proper lubrication and owners will be well repaid by giving careful attention to the lubrication diagram.

The engine attains maximum power at 4,600 r.p.m., and 5,200

r.p.m. should not be exceeded.

The illustration on page 5 shows the general arrangement of controls. The following points should be observed in starting the engine.

STARTING THE ENGINE

It is essential to ensure that the handbrake is applied before starting the engine, as the automatic carburetter system will cause the engine to run at a fairly fast idle speed on initial starting from cold.

On cars with automatic transmission, move the gear range selector lever to neutral, quadrant position "N". The engine cannot be

started unless the selector lever is in this position.

FOR STARTING FROM COLD

Depress the accelerator pedal slowly to one third of its travel and allow it to return to closed position before starting the engine.

Turn ignition key to extreme right to operate starter. When engine

fires, release key. The engine should start immediately.

NOTE—Do not pump accelerator pedal. If engine does not start because of excess fuel in cylinders, push accelerator pedal slowly to full open and operate starter while keeping pedal depressed.

The fuel mixture is automatically adjusted to provide for easy engine starting and for the warming up and operating periods.

GEARBOX OPERATION

The automatic gearbox is more than just a mechanism which automatically adjusts the gear ratios according to conditions of speed and load. An overriding control is provided which enables the driver to exercise his own judgement and desire in regard to the gear ratios to be selected and an understanding of what is possible greatly enhances the pleasure to be derived from driving the car.

The gearbox provides three forward speeds, Neutral and Reverse. The control guadrant is marked as follows:—

R N D 2 1

The following indicates the gears obtained in each range:

"1" 1st only (Maximum permissible 48 m.p.h.)

"2" 1st and 2nd (Maximum permissible 82 m.p.h.)

"D" 1st, 2nd and top

"N" Neutral

"R" Reverse

There is one 'gate' position for reverse only.

To change into reverse press the button in the end of the gear lever.

TO DRIVE AWAY

If the driver so desires, he can leave everything to the automatic gearbox and gear changes will occur at the theoretically correct moment in terms of speed and load. Obviously, however, road or traffic conditions may be such that the automatic gear change may be undesirable, and it is for this reason that the overriding controls are provided to enable the driver to enforce a gear change as and when desired.

The driver should, therfore, first familiarise himself with the approximate speeds at which the automatic changes occur. These are as follows:—

	D Range	
	Up-changes (m.p.h.)	
	1-2	2-top
Light Throttle	11	15
Full Throttle	40	76

The owner-driver who wishes occasionally to indulge in a very fast get-away will obtain maximum acceleration by allowing the automatic gearbox to make full throttle changes throughout the speed range.

The automatic down-change at light throttle will normally occur at the following speed:—

Top to 1st direct 8 m.p.h.

Under "Kick-down" conditions down changes occur at speeds below the following limits:—

Top to 1st 37 m.p.h. Top to 2nd 68 m.p.h.

Caution must be observed when making a "Kick-down" change at speeds below 32 m.p.h. in view of the sudden surge of power engendered.

MANOEUVRING

When manoeuvring, "D" should be selected for forward movement. Reverse gear can be selected whilst vehicle is in forward motion but only below 17 m.p.h.

MOUNTAIN DRIVING

When driving in mountainous country or with heavy loads, the 2 or 1 position should be selected on upgrades which require heavy throttle for half a mile or more. Lower ratios reduce the possibility of overheating the transmission and converter under these conditions. The 1 position is for severe operation or to obtain better control or for operation in descending a steep hill.

IDLING

Neutral ("N") should be selected when it is necessary to idle the engine for an extended period.

COASTING

Coasting must be avoided at all times, otherwise the gearbox may suffer serious damage due to lack of lubrication.

TOWING

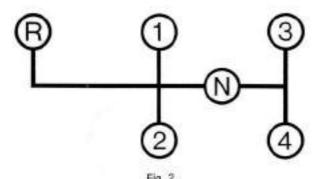
Transmission Inoperative. The vehicle should be towed with a rear end pick-up or remove the propeller shaft.

Transmission Operating Properly. The vehicle may be towed safely in "N" (neutral) at moderate speeds. For long distance towing (over 100 miles) the propeller shaft should be removed.

PUSH STARTING

If the engine fails to start in the normal manner, it may be started by pushing the car. Towing is not recommended due to the sudden surge of power when the engine starts.

Turn the ignition on, then engage 1 (low) position and depress the accelerator pedal slightly; after the vehicle has been pushed to a speed of 15 to 25 m.p.h. (approximately), the transmission will drive the engine.



Optional Manual Transmission

The change speed arrangement being conventional, it is not proposed to describe the method of engaging and changing gear, but a plan showing the gear lever positions is shown above.

Clutch

The clutch is hydraulically operated and normally requires no adjustment. If attention is required the work should be carried out by an officially appointed Jensen Distributor or Dealer.

Engine Lubrication System

The engine lubrication system comprises an externally mounted rotor-type pump, a full flow oil filter connected to the pump by flexible pipes, engine sump, and various lubrication passages.

Oil is drawn from the sump through a fine mesh gauze strainer, and delivered to the bearings, via the oil filter, under pressure from the pump. Uniform pressure is maintained by a relief valve in the pump. The valve gear is lubricated by oilways through the camshaft, while the gudgeon-pins are splash lubricated.

The oil level should be checked daily by means of the dipstick, which is on the left hand side of the engine. Oil should be added via the filler cap on the left hand bank of cylinders.

Draining the Sump

The engine oil should be changed every 4,000 miles (or 3 months) (Every 2,000 miles if a great deal of driving is done in heavy traffic or in very cold conditions).

The oil should be drained when the engine is warm. The drain plug is in the bottom of the sump.

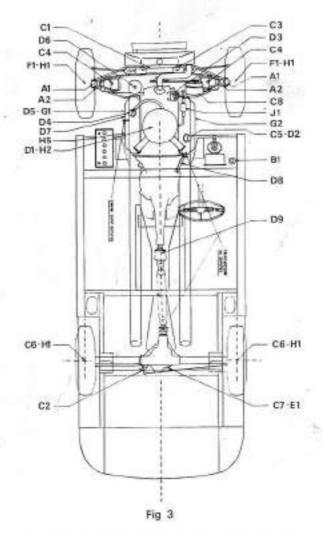
Changing the Filter

The engine oil filter element should be changed with the engine oil with every **second** change. The filter is mounted high up on the left hand side of the engine, and is connected to the pump by two flexible pipes.

The element is changed by undoing the hexagonal nut on top of the filter housing. This will allow the top of the housing to be removed, and the filter element withdrawn.

Before the new element is inserted, the housing, especially the top rim, should be wiped clean. A new gasket should be used every time the element is changed.

After the fitting of a new filter element, the car should be run for a few miles and then the top joint of the filter inspected for leaks. If necessary the hexagonal nut should be retightened.



LUBRICATION AND MAINTENANCE

FIRST 1,000 MILES SERVICE

The following special service is necessary after the car has covered the first 1.000 miles.

Drain and refill axle.

Check contact breakers, and adjust if necessary.

Check steering and front end geometry. Check hydraulic reservoirs for fluid. Tighten driving belt if necessary. Check electrical system. Check tyre pressures. Check lights. Check braking system.

Check water level and connections and tighten if necessary.

A-1,000 MILES (second and subsequent)

- A1 King Pin Bearings Upper and Lower—Grease Gun (4 nipples).
- A2 Front Suspension Lower—Grease Gun (2 nipples).

B-2,000 MILES or Monthly

B1 — Brake and Clutch Master Cylinder Resevoirs—check and top up.

C-4,000 MILES

- C1 Steering Rack-Grease Gun (1 nipple).
- C2 Brake Balance Lever—Grease Gun (1 nipple).
- C3 Steering Dampers-Check and Top Up.
- C4 Front Shock Absorbers-Inspect and Top Up.
- C6 Sump-Drain and Refill.
- C6 Rear Wheel Hubs-Grease Gun (2 nipples).
- C7 Rear Axie-Check and Top Up.
- C8 Alternator—Clean and Check.

Manual Transmission

- C9 Clutch Bell Crank Lever—Grease Gun (1 nipple).
- C10 Clutch Bell Crank and Fork Linkages-Lubricate.

D-8,000 MILES

- D1 Air Cleaner Element—Clean and Check.
- D2 Oil Filler Air Cleaner-Clean and Re-oil.
- D3 Distributor-Clean, Check Points.
- D4 Crankcase Ventilator Valva—Check.
- D5 Sparking Plugs—Clean and Check.
- D6 Oil Filter Element—Replace.
- D7 Manifold Heat Control Valve—Lubricate.
- D8 Automatic Transmission—Check and Top Up.
- D9 Propshaft U/J's—Inspect for leakage.

Manual Transmission

D10 — Gearbox—Check and Top Up.

E-12,000 MILES

E1 — Rear Axle—Drain and Refill.

F-16,000 MILES

F1 — Front Wheel Hubs—Check and Repack if necessary.

G-20,000 MILES

- G1 Sparking Plugs-Replace.
- G2 Fuel Pump Inlet Filter-Replace.

H-32,000 MILES

- H1 Wheel Hubs-Clean and Repack.
- *H2 Air Cleaner Element-Replace.
- *H3 Automatic Transmission-Drain, Refill and Adjust.
- *H4 Automatic Transmission Oil Filter-Replace.
- *H5 Propeller Shaft Joints-Clean and Repack.
- * Heavy operating conditions only; normally no attention required.

Manual Transmission

*H6 — Gearbox-Drain and Refill.

J-80,000 MILES

J1 - Cerburettor Inlet Pipe Fuel Filter-Replace,

Fuel System and Carburettor

Fuel System

The fuel system consists of the fuel tank, line and filters, mechanical pump, carburettor and air cleaner.

Fuel Tank

The fuel tank is located below the floor of the boot and has a capacity of 16 gallons Imp., 19 gallons (U.S.) or 72 litres. The low fuel warning light in the face of the rev counter burns continu-

ously when 3 gallons or less remain in the tank.

The fuel tank filler pipe is covered by a flap on the left hand rear wing, which can be opened automatically from the driver's seat. The 'Re-fuel' switch on the facia controls a solenoid which, when energised, allows the flap to fly open. Alternatively the flap can be opened manually by depressing the small plated lever in the top left hand corner of the boot.

There is a drain plug in the bottom of the tank.

Fuel Line and Filters

The fuel line incorporates two filters, one before and one after the fuel pump. These are of the paper cartridge type and cannot be cleaned. The filter between the tank and pump should be replaced every 20,000 miles and the filter after the pump every 80,000 miles. Note: Where dirty petrol has been used, more frequent filter changes will be necessary.

Fuel Pump

The mechanical fuel pump is located on the right hand side of the engine. It is driven from the camshaft and delivers fuel to the carburettor at 3½ p.s.i.

Carburettor

The Carter AFB (Aluminium Four Barrel) carburettor is a complicated and sensitive instrument, for it combines the best features of both single and multi-choke designs in one unit.

All jets etc. are correctly set before installation, so the only adjustment normally necessary will be to the idling speed settings.

Idle Speed Adjustment—(Curb Idle)

To make the idle speed adjustment, the engine must be thoroughly warmed up. A much more reliable idle adjustment can be obtained if the car has been driven a minimum of five miles. For the best results, it is recommended that the tachometer be used in this adjustment.

Before making the idle speed adjustment observe the following

precautions:-

(1) On cars equipped with the automatic transmission, disconnect the carburettor to bellcrank rod so that the stop in the transmission will not interfere with the free movement of the carburettor throttle lever.

(2) To make the idle speed adjustment proceed as follows:-

(i) Turn the idle speed screw in or out to obtain 500 r.p.m. Be sure the choke valve is fully open and that the fast idle adjustment screw is not contacting the fast idle cam.

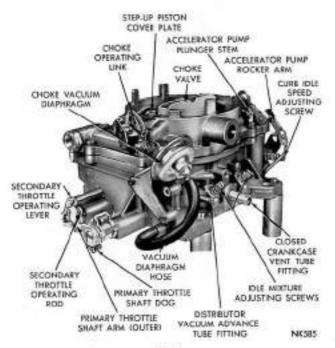


Fig 4

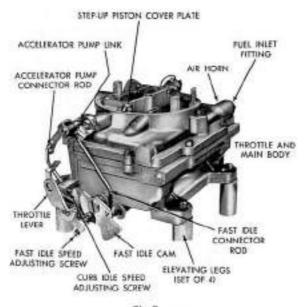


Fig 5

- (ii) Turn each idle mixture screw to obtain the highest r.p.m. While making the adjustment, carefully watch the tachometer and notice that the speed can be decreased by turning the screws in either direction from the setting that gave the highest r.p.m. reading.
- (iii) Readjust to 500 r.p.m. with the idle speed screw.
- (iv) Turn each idle mixture adjusting screw in the clockwise direction (leaner) until there is a slight drop in r.p.m. Now, turn each screw out, counterclockwise (richer), just enough to regain the lost r.p.m.

This procedure will assure that the idle has been set to the leanest possible mixture for smooth idle.

This setting is very important!

Since the correct speed was originally set using the speed screw, the speed obtained after finding the leanest smooth idle setting will probably be too fast.

(v) Readjust the speed screw to obtain correct idle speed. Repeat steps 2 and 4 above if necessary.

After the proper idle speed has been obtained, check transmission setting as described under throttle linkage. Fig. 7.

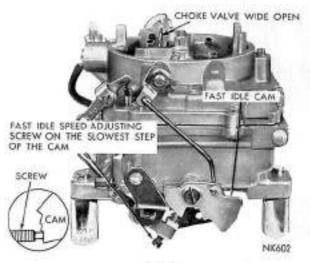
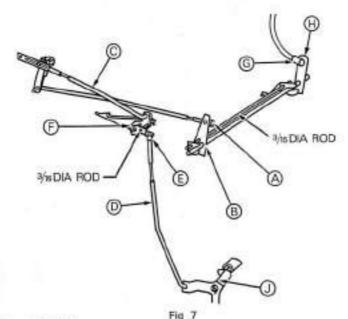


Fig 6



Throttle Linkage

The correct setting of the throttle linkage cannot be over-emphasized. The throttle and automatic gearbox controls being interconnected, various conditions affecting car performance can be encountered if the throttle is not set correctly. As well as poor general performance, there may be delays in automatic gearchanges, both up and down, and total failure of the 'kick-down'. If the linkage has been disturbed for any reason, it must be reset in the following manner, with reference to fig. 7.

- Block choke valve in fully open position and ensure release of fast idle cam. (These precautions are not necessary on a fully warmed-up engine).
- (2) Disconnect:
 - (a) Carb rod (A) at crosshaft lever (B)
 - (b) Carb-bellcrank rod (C) at carburettor
 - (c) Rod (D) at upper end
 - (d) Cable (G) from lever (H)
- (3) Insert & dia, rods in the two positions indicated.
- (4) Using rod (D) to hold throttle valve lever (J) against forward stop, adjust rod end until it clips onto ball end stud (E).
- (5) Remove & dia. rod from bellcrank (F) and, still loading system against throttle valve lever stop, adjust rod (C) till slotted hole just slips over carburettor lever stud. Then adjust rod end out three (3) full turns and replace washer and spring pin in position.

(6) Adjust carburettor rod (A) until ball joint stud locates in lever (B) on crosshaft and fix with nut and spring washer.

(7) Adjust cable end ball joint, while applying a light load against cable stop, until it locates in hole in accelerator crosshaft lever (H) and fix with nut and spring washer.

(8) Remove & dia. rod from crosshaft, and blocks from carburettor choke valve, and test that full throttle opening is being obtained in carburettor when the pedal is depressed fully against floor stop, if necessary adjust floor stop.

Air Cleaner

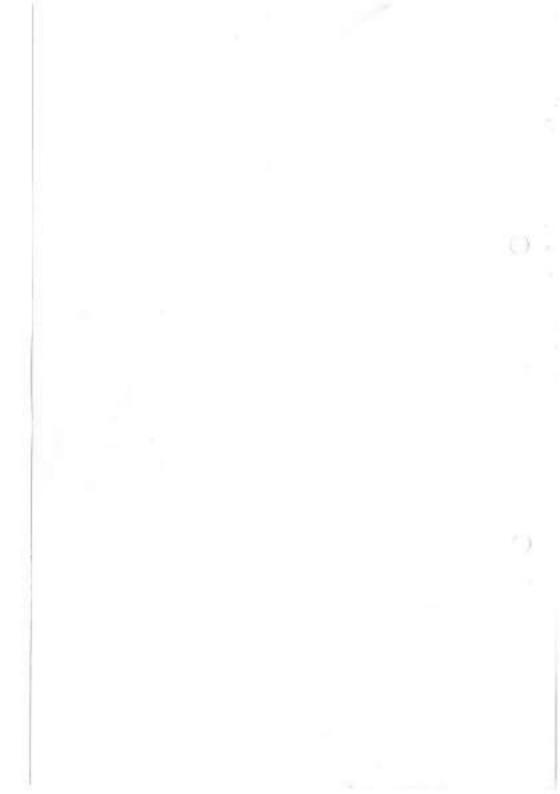
The air cleaner is held on top of the carburettor by one wing nut. Every 8,000 miles the air cleaner element should be cleaned. Every 32,000 miles, or more often under dusty conditions, a new element should be fitted. At any time if there should be an oil mark on 2/3 of the circumference a new element should be fitted.

Closed Crankcase Vent System

The crankcase ventilator valve is located on the right hand rocker cover and is connected to the carburettor body by a rubber tube. The valve serves as a vent for the crankcase, and also provides upper cylinder lubrication by introducing oily vapour into the inlet manifold.

Every 8,000 miles the valve should be checked for correct operation.

The left hand rocker cover is vented via the carburettor air cleaner.



Ignition

The ignition is of basically standard design, but incorporates two features which may be strange to some owners. These are, a ballast resistor mounted in series with the coil, and twin contact breakers fitted to the distributor.

The ballast resistor is a variable resistance in the ignition primary circuit. During low speed operation, when the current flow through the primary circuit is high, the temperature of the ballast resistor rises, increasing its resistance. This reduces the current flow, thus prolonging the life of the contact breakers. At high engine speeds, when the current flow in the primary circuit drops off, the ballast resistor cools down, thus allowing more current to flow, and more efficient high speed operation. As an aid to easier starting, the ballast resistor is bypassed when the starter is in operation, thus allowing full battery voltage to the ignition primary circuit.

The twin contact breakers are fitted to reduce spark erosion at high speeds (on an 8 cylinder engine). The gaps should be set as if for a single unit, in fact the engine will run with only one set. When setting the gap on one, the other should be blocked with a thin strip of insulating material, such as mica.

Distributor

Every 8,000 miles 5-10 drops of oil should be added to the oil cup and 2-3 drops of oil to the rotor wick. The cam and bumper block should also be thinly coated with grease. At the same time the points should be cleaned and checked.



Cooling System

Capacity 32 pints (Imp.) 38 pints (U.S.) 18.2 litres. The coolant is circulated by a centrifugal pump driven off the engine, by the same belt as the alternator. A thermostat is fitted, immediately above the water pump, to assist in rapid warming up of the engine.

WARNING The cooling system is pressurised to 14 p.s.i. and therefore operates at a higher temperature than normal. Scalding could result if radiator filler cap is removed when the engine is hot. All checks should therefore be made when the engine is cool or cold.

Topping up

Coolant level should be checked daily. When necessary clean water should be added to bring the level in the radiator up to the indicator bar in the header tank. The radiator should not be overfilled, as the pressurised system requires room for expansion.

Cold water **MUST NOT** be added when the engine is hot, otherwise serious damage may be caused to the engine. It must either be allowed to cool down, or hot water added to the radiator.

Draining Cooling System

There are 3 draining points; one at the bottom of the radiator, and one at each side of the crankcase, at the base of each cylinder block. It is essential that all three be opened when draining the engine.

The radiator drain tap may become clogged with sediment, and should therefore be cleaned occasionally with a piece of stiff wire.

Frost Precautions

In cold weather there is a risk of the water freezing and cracking the cylinder block or radiator. Therefore, an anti-freeze solution should be used under these conditions. It is essential that only an Ethylene Glycol-based product be used.

For the correct quantities to add, for full protection under different weather conditions, reference should be made to the anti-freeze makers' charts.

Flushing

To reduce the formation of deposits, which impair efficiency, the cooling system should be flushed out with clean water every 5,000 miles. This is particularly important before adding anti-freeze.

Thermostat

The thermostat restricts flow between the cylinder block and radiator to assist rapid warming up. It is of the copper-impregnated wax type, and should start to open at approximately 57°C. It should be fully open at approximately 75°C. Failure of the thermostat is indicated by slow warming up, and poor heater performance.

Electric Fans

There is no engine driven cooling fan, but in its place two electric fans which operate only when required to maintain optimum engine operating temperature.

These fans are mounted on the cross tube behind the radiator and are controlled by a thermostatic switch in the bottom of the radiator.

They are not wired through the ignition circuit and will therefore continue running, if necessary, even after the engine has been switched off. (This is because the water temperature actually rises during the last few seconds of a journey, owing to the car being stopped and there being no air flow through the radiator. The fans will only run for a very short time, and then switch themselves off).

The fans are protected by a fuse in the Relay Box at the rear of the engine compartment.

Transmission

Automatic Gearbox

The Chrysler Torqueflite 8 Automatic Gearbox combines a torqueconverter with a fully automatic 3 speed planetary gear system. For correct operation of the gearbox, it is **essential** that only the recommended fluids are used, and that the fluid level is checked and replenished as necessary.

To prevent overheating of the transmission, the fluid is circulated through an oil cooler in the bottom tank of the main cooling

radiator.

In an emergency

If the fluid level is low, and none of the recommended fluids are available, SAE 10 engine oil may be added. However, the gearbox should be drained and re-filled with the correct fluid as soon as possible.

Checking and Topping Up

The fluid level should be checked every 8,000 miles. When checking, the engine and transmission should be idling and at normal operating temperature. To circulate the transmission fluid the handbrake should be firmly applied, and, with the engine idling, each gear position selected in turn, Neutral (N) being finally held.

The dipstick and oil filler pipe are located behind the right hand bank of cylinders. The fluid level should be between the 'FULL' and 'ADD ONE PINT' marks, but never above the 'FULL' mark, when checked in this way. If necessary, fluid should be added via

the oil filler pipe.

If it is necessary to check the level when cold the level should be at, or just below, the 'ADD ONE PINT' mark.

Changing Transmission Fluid and Filter

Under normal driving conditions it should not be necessary to change fluid or filter but if a great deal of towing, (or traffic work in hot weather), is done, this operation should be carried out every 32,000 miles. The following procedure should be adopted:—

 As no direct drain plug is fitted, a large container should be placed under the gearbox sump and the sump bolts

removed.

 With the sump dropped, the access plate in front of the convertor housing should be removed, revealing the drain plug for the torque convertor. This should be removed, allowing the oil to drain out.

The convertor plug should then be replaced (14 in. lbs.

torque) and the access plate bolted back.

4) The oil filter should be removed by undoing the three

screws which hold it in position.

 The filter should be replaced with a new one.
 A new gasket should be used, and the screws tightened (28 in. lbs. torque.)

- The gearbox sump should be cleaned out and replaced, using a new gasket (150 in. lbs. torque).
- 7) Fifteen pints of clean transmission fluid should be added. The procedure for checking the level should then be followed, and any fluid necessary added to bring the level to the full mark (approx. 2 pints).

Propeller Shaft

The one piece propeller shaft has a constant velocity joint at the forward end and a universal joint at the rear end. The sliding spline at the forward end allows the axle some fore and aft movement. The rear joint is of the normal cross and roller type.

Both joints are packed with lubricant and sealed. They should be inspected every 8,000 miles (or 6 months) for external leakage otherwise it is not necessary to relubricate at all. If the car has been used under severe conditions (see Auto-transmission) then it should be cleaned and repacked at 32,000 miles.

If it should be necessary to remove the propeller shaft, the following procedure should be adopted:—

- The clamps holding the universal joint to the yoke on the pinion nose should be undone.
- The shaft should be supported, and not allowed to hang loose.
- The sliding spline on the front of the forward universal joint should be disengaged from the transmission unit.

When re-assembling, which should be done in the reverse order the following torque rating should be used:—

Clamp bolts on rear universal joint 170 in. lbs.

Rear Axle

The rear axle is of the semi-floating type, and incorporates a limited slip diffential 'Powr Lok', which spreads the driving torque to both wheels, even when one is slipping.

The 'Powr Lok' is extremely sensitive to lubrication, and only the oils listed on page 29 should be used, i.e.

SHELL EP90 SCL

In an Emergency

If this oil is not available, any 90 E.P. oil may be used for a short period. However, the axle should be drained and refilled with the correct oil as soon as possible.

The rear axle should be drained and refilled at the first 1,000 mile service. Thereafter it should be checked every 4,000 miles, and replenished as necessary. After 12,000 miles it should be drained and re-filled.

Steering and Suspension

Steering

The steering is of the rack and pinion type which provides light and sensitive steering at the cost of some kick-back on poor roads. Dampers are incorporated in the rack housing to control this. There is one grease nipple on the rack which requires attention every 4,000 miles with a general purpose grease. The dampers should be inspected and topped up with Shell Tellus 15 at the same time. The ball joints are sealed and require no attention.

Front Suspension

The independent front suspension is of the wishbone type, the coil springs being held in compression between the chassis frame and the lower wishbone, while the upper wishbone operates the piston type dampers. An anti-roll bar connects the two lower wishbones. Suspension lubrication points are shown in the lubrication chart. The hydraulic dampers should be topped up with Armstrong Fluid every 4,000 miles.

(See front dampers).

Front Wheel Alignment

Alignment of the front wheels is an important factor in tyre economy and ease of steering. The front wheels should have 'toe in' of 4.". If adjustment is necessary it is made at the tie-rods.

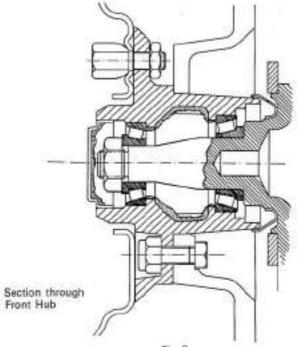


Fig 9

Front Hubs

The front hub bearings may need periodical adjustment. The following procedure should be adopted.

- The car should be jacked up and the nave plate removed.
- The hub cap should be removed by turning it anticlockwise.
- The cotter pin should be removed.
- The wheel bearing nuts should be tightened with a Torque Wrench to 90 ft. lbs. while the wheel is rotated.
- The nut should be backed off until a slot in the nut coincides with the cotter pin hole, and a new cotter pin fitted.

Front Hub Lubrication

Wheel bearings should be inspected every 16,000 miles, under normal conditions. If the grease has emulsified, the hub bearings should be stripped down and thoroughly cleaned before regreasing. The bearings should be repacked with grease but the hub should not be completely filled with grease, but only lightly applied around its inner perimeter. At 32,000 miles hub and bearing should be cleaned and repacked with grease as above.

Front Dampers

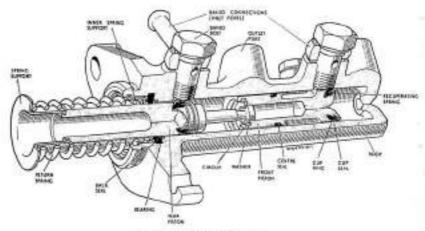
The front dampers should be checked for level every 4,000 miles and if necessary topped up with Armstrong Damper fluid.

Rear Suspension

The rear axle is carried on semi-elliptic springs, and is located laterally by a Panhard rod. The telescopic dampers are adjustable from the driver's seat (see Controls page 7). No attention to the dampers is required.

Rear Hubs

One grease nipple on each rear hub requires attention every 4,000 miles. At 32,000 miles the hubs should be stripped, cleaned, greased and re-assembled.



Tandem Master Cylinder Fig 10

Brakes

Brakes

A Dunlop hydraulic disc braking split system is used on all four wheels, operated by the foot pedal in conjunction with a Vacuum Servo unit.

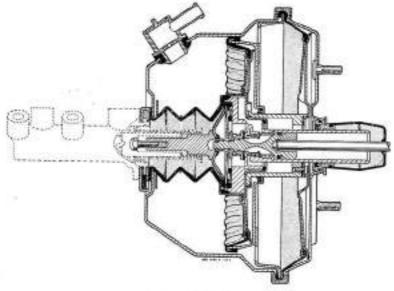
The tendem master cylinder ensures that, should a failure occur in any part of the system, braking would still be available on two wheels.

The handbrake is separate from the foot braking system, and operates through a mechanical linkage to the self adjusting parking brake on the rear discs.

The brakes normally require no attention, as both foot and handbrake are self compensating for wear. When pads have to be changed, reference should be made to the Dunlop booklet supplied with the car.

Topping Up

The reservoirs for the brake master cylinders are located above the Servo unit in the engine compartment and require checking monthly, or every 2,000 miles, whichever is the shorter period. If required, Dunlop Disc Brake Fluid should be added to a level half an inch below the top of the reservoir. The reservoirs contain a rubber dust seal which should be removed before topping up.



Brake Servo Unit

Fig 11

Lubrication

There is one grease nipple on the handbrake compensating linkage which requires attention every 4,000 miles. A multi purpose grease should be used.

Bleeding the Braking System

If any item of the hydraulic system has been replaced or if air has entered the system, it must be bled to restore proper working. This operation is fully described in the Dunlop booklet and the instructions given should be carefully followed. It should be noted that Dunlop Disc Brake Fluid was formerly known as Wakefield Crimson.

Servo

Note: The tremendous braking power of the C-V8 stems partly from the fact that one of the chassis tubes is used as a vacuum reservoir. It is therefore **imperative** that these are not drilled, otherwise serious loss of braking power would result.

Wheels and Tyres

Wheels

The ventilated steel disc wheels are secured by five nuts. All nuts have right hand threads.

Tyres

The tyres fitted are 6.70 x 15 Dunlop Road Speed (RS5). These are tubed tyres having a nylon carcase, and suitable for sustained speeds of up to 110 m.p.h. at standard pressures. Development work on tyres is always proceeding, and Jensen Motors Limited will be pleased to give their latest recommendations when new tyres are required.

Tyre Pressures

The recommended tyre pressures are:-

Front 24 p.s.i. (1.7 Kg/cm²)

Rear 24 p.s.i. (22 p.s.i. for town use only)

For sustained speeds in excess of 110 m.p.h., the tyre pressures, front and rear, should be increased to 30 p.s.i. (2.1 Kg/cm²)

Tyre and Wheel Balance

Tyre and wheel assemblies are balanced both statically and dynamically before they are fitted to the car. In view of the high speeds attainable it is recommended that wheel balance is checked every 5,000 miles. Most large garages and service stations have balancing equipment.

Tyre Life

It is not recommended that the tyres be interchanged between front and back. (A tyre weakened by excessive wheelspin could prove dangerous were it to fail when fitted to the front).

However, changing tyres from left to right and vice versa will help to prolong tyre life. If desired, the spare can be alternated between the rear wheels.

The following factors have an adverse effect on tyre life:-

- Incorrect tyre pressures.
- Misalignment of wheels.
- Harsh acceleration, Wheel spin should be avoided.
- 4) Fierce braking.

Wheel Changing and Jacking System

The jacking system allows the car to be raised with the minimum of effort. The jack is of the Bevelift type and is carried in the tool compartment, in the left hand side of the boot.

Four jacking holes are provided. These are in the chassis side members close to the wheel arches and are protected by rubber plugs. These plugs have retaining wires to prevent them being lost. When it is necessary to change a wheel the following procedure should be adopted.

1) The car should be on a hard level surface.

2) The handbrake should be applied.

- The nave plates should be removed using the screwdriver in the tool kit. To avoid the possibility of damage to the nave plate, it should be levered off as close as possible to one of the retaining studs. These are located at 3 o/c, 7 o/c and 11 o/c relative to the tyre valve.
- The wheel nuts should be slightly loosened, but not removed, using the wheelbrace provided.
- The spare wheel should be removed from its bracket (see Spare Wheel stowage page 22).
- 6) The rubber plug should be removed from the nearest jacking point, and the jack spigot inserted. The handle should be turned clockwise to raise the car.
- When the wheel is well clear of the ground the wheel nuts should be removed, and the wheels changed over.

The procedure should then be reversed.

Bodywork

Doors.

The door catches are controlled from the outside of the car by press-buttons in the exterior door handles. They may be locked by either the remote control handles on the inside, or the locks in the handles on the outside. In order to make it impossible to lock the doors with their keys inside the car, the locks are self cancelling, and slamming the door automatically unlocks it.

When leaving the car from the right, the left hand door should be closed from inside by means of the remote control handle, and then the right hand door locked from outside. When leaving from the

left, the procedure is reversed.

Roomy map pockets are located in the doors behind the combined arm rest/door pulls.

Front Shroud

The front shroud is hinged at the back, and has a locking mechanism designed to make it impossible for it to fly open accidentally. There are three separate operations required to open the shroud. The small square panel at the front of the shroud must be unlocked

using the ignition key. When this panel is raised, the shroud release lever will be seen in the recess. This must be turned upwards to a vertical position to release the main shroud securing

pins.

A safety catch is to be found in the air intake, immediately to the right of the car centre-line (to the left when facing the car.) This should be pulled forward, and the shroud lifted with both hands, it will stay open automatically when in its fully open position. There is a small light mounted on the underside of the shroud. This is illuminated automatically when the shroud is opened, provided that the sidelights are on.

Boot

The bootlid is spring loaded to the open position. Whenever it is opened a light in the forward left hand corner is switched on.

Keys

Two keys are provided with each car. One will switch on the ignition, and lock or open the doors and front shroud. The other will lock or open the boot and glove locker. Therefore, if desired, these may be locked and the ignition key left with the car.

A second set of keys will be sent direct to the owner when the

Application for Guarantee is made.

It is advisable to record the numbers of the keys, and a page in this book is provided for the purpose.

Seats

Both front seats are fully adjustable for both fore and aft movement and rake.

The seat adjustment is made by a lever at the front of each outer seat runner. This lever should be moved outwards, and the seat moved forwards or backwards as required.

Rake adjustment of the backs is effected by turning a knob on the front of each seat.

For entry into the rear of the car, a pedal release is mounted at rear outer side of seat. When this is depressed the squab is released and can be pushed forward.

Lockers

There are four lockers provided in the car. One is in the facial opposite the passenger, one between the front seats, and one alongside each rear seat.

The glove locker in the facia has a pull-down lid which lies horizontal when open, so may be used as a small table. It is locked by the same key as the luggage boot.

The companion box between the front seats has a padded lid which is hinged at one side.

The rear lockers also have padded tops and open upwards, the hinges being on the inside edges.

Safety Belts

Safety belts of the single diagonal type are fitted as standard to the C-V8, Jensen Motors Limited, believing that safety belts can make a significant contribution to road safety.

The belts are fastened at their lower ends to substantial eyebolts on the car chassis, and at their upper ends to the reinforced grab handles.

The belts have snap-action buckles, which can be both fastened and released quickly and with little effort. The buckle is fastened by pushing the tongue into the buckle until a definite 'click' is heard. To release the buckle, the buckle flap should be lifted through approx. 90 ° when the tongue will be automatically released.

All adjustment for length is made at the fastening end. The belt is tightened by pulling the loose end further through the buckle, and sliding the cursor down the belt to take up the slack. To loosen the belt the buckle should be held by the two black catches and pulled upwards.

Spare Wheel

The spare wheel is carried on a special bracket below the luggage boot.

The bracket is lowered by means of a slotted tube in the right hand rear corner of the boot. To reach this nut it will be necessary to fold back the carpet, and the cut out piece of underfelt. A special adaptor is provided in the toolkit, and this should be used in conjunction with the wheelbrace. The nut should be turned anticlockwise until the bracket has dropped far enough for the spare wheel to be withdrawn.

The spare wheel should be replaced by reversing this sequence of operations.

Paint Work

The car should always be cleaned using a liberal supply of clean water. It is essential not to 'dry clean' the car, as this will produce scratches on the smooth surface of the cellulose. Grease and tar splashes are best removed using a soft rag dipped in petrol. An occasional application of a good class wax polish will help to preserve the smooth finish.

Leather Upholstery

The leather upholstery should require no attention save an occasional wipe down with a little soapy water. Harsh detergents should not be used.

If subjected to heavy wear, or harsh weather conditions, the upholstery will benefit from an occasional application of Connolly Hide Food.

Floor Carpets

When they become soiled, the floor carpets should be taken out and cleaned with a vacuum cleaner. They are held in by press-studs.

Ashtrays

Two ashtrays are provided, one for front seat passengers, and one for those in the rear. Both ashtrays are mounted in the central companion box.

The forward one is covered by a chromed snap action lid, while the rear one pulls out rearwards from the companion box. Both are removable for cleaning.

Lubrication of Body Parts

See "Service Lubrication", page 28.

First Aid Kit

A compact but comprehensive First Aid Kit is supplied with the car. It is mounted under the lid of the left hand rear locker.



Cabin Heating and Ventilation Systems

Heating System

A powerful and comprehensive heating system of 4½ Kw output is fitted, and this allows any combination of temperature and air flow to be selected and maintained.

The car interior is heated by fresh air drawn from outside the car and passed over a radiator matrix supplied with hot water from the engine. Therefore the heater will not be fully effective until the engine has reached its normal operating temperature.

Controls

There are three main heater controls:-

- Air cut-off control. This is mounted on the scuttle below the steering wheel and controls the air passing into the heater. This valve is opened by moving the knob down.
- 2) Distribution control. This is on the left hand side of the central facia lower, flanking the grille. Its position determines whether air from the heater is directed towards the windscreen, or into the car interior. With the control at 'INT', air flow is directed into the front and rear footwells and also through the grille in the facia lower. If the control is set to 'DEMIST', flow is directed to the windscreen.
- 3) Temperature control. This is on the right hand side of the facia lower, opposite the Distribution control. Once the desired temperature is set, it is maintained by a thermostatic valve in the water system, regardless of the engine coolant temperature, or the car speed.
- 4) Fan. The flow of air from the heater can be supplemented by a two speed fan, controlled by a switch on the facia. With the switch half way down, slow speed is selected; moving it fully down increases the fan speed.

Ventilation Systems

Two completely independent ventilation systems are built into the car.

- Footwell Ventilation. Small sliding panels on the outside of each footwell are connected to intakes below the headlights. Opening these panels provides a flow of air dependent on the speed of the car.
- 2) Face level Ventilation. Two spherical air vents are mounted in the facia, which provide fresh air from the scuttle intake. These are opened by pulling out the nazzles. A booster fan is fitted to supplement fresh air output and is controlled by the switch marked "Air" on the facia.



Electrical System

All electrical equipment is of Lucas manufacture with the exception of the Ignition, Starting and Charging Systems, which are of

Chrysler origin.

The Electrical system is of the 12 volt NEGATIVE earth type. Most British and Continental cars employ a Positive earth system, and the difference must be observed—as INCORRECT POLARITY will cause serious damage to the rectifiers in the alternator.

Alternator

The alternator takes the place of the usual dynamo. It is an alternating current generator, with six built-in silicone rectifiers which convert the alternating current into direct current.

The alternator provides a high charging rate at low engine speed, and this means that the battery can be kept fully charged all the

Belt Tension

The belt which drives the alternator and water pump has to be correctly tensioned. If it is too tight it will load the alternator bearings excessively, causing their early failure; if too loose, the belt will slip, causing poor water pump and alternator performance. The belt tension can be checked by pressing down on it, midway between the water pump and alternator. The deflection should be \(\frac{1}{2} \) except where a new belt has just been fitted, when it should be \(\frac{1}{2} \).

Battery

The battery is mounted in the engine compartment. The following Lucas battery is fitted and recommended as a replacement :—

Type BTZ11A Voltage 12

Voltage 12 Capacity 72 Ampere hours

The level of the electrolyte should be checked weekly, or more often in hot weather. If it has fallen below the top of the separators, sufficient distilled water should be added to bring it to approx. 1° above the separators. It is important not to overfill the battery.

The battery is held in its box by two clamps and four wingnuts, It must always be firmly secured. The terminals should be kept clean and tight, and well covered in petroleum jelly.

Fuses

Six fuses are used to protect the electrical equipment. The radio, the Selectaride rear dampers, and the electric cooling fans are individually fused; the interior light and the bootlight share a low independent rating fuse, while all other circuits are carried by the two main fuses.

The main fuse box is under a black cover, mounted beneath the facia near to the steering column. The top fuse is of 50 amp rating, and protects all circuits which operate independent of the ignition. The lower one, of 35 amp rating, protects all circuits controlled by the ignition. Two spare fuses, one 50 amp and one 35 amp, are provided.

The fuse protecting the interior light and the bootlight is housed in a white nylon in-line fuse holder adjacent to the main fuse box. This is a 10 amp fuse.

A black nylon in-line fuse holder will be found above the white one. This holds the 15 amp fuse which protects the Selectaride Rear Dampers.

The 5 amp fuse for the radio is mounted below the radio itself. Access to it is gained by removing the central instrument panel.

The engine cooling fans are protected by a fuse in the relay box on the bulkhead in the engine compartment. This is mounted in a white nylon in-line fuse holder.

Blown Fuses

A blown fuse is indicated by failure of all the items protected by it. These will be shown in the wiring diagram. Before a fuse is changed, the cause of the trouble should be remedied, or it will blow again. Fuses should always be replaced by ones of the same rating.

Voltage Control Box

The voltage control box is mounted beside the rear demist relay on the left hand side of the bulkhead in the engine compartment. It is a delicate mechanism, and must only be disturbed by a qualified electrician.

Direction Indicator Flasher Unit

This is located adjacent to the main fusebox beneath the facia. It is a sealed unit and requires no attention whatever. It is a plug-in fitment, and must be changed complete if defective.

Electric Horns

Twin wind-tone horns, one high note and one low, are fitted in front of the radiator. They are operated by a horn-push in the centre of the steering wheel and are supplied through a relay. This is fitted in the relay box on the bulkhead in the engine compartment, and must be changed complete if defective.

Lights

			Lucas No.
1A Unit	37.5 w.	S.B.	54521805
2A Unit	37.5/50w	S.B.	54521806
	6 w.	S.B.C.	209
	21 w.	S.C.C.	382
	6/21 w.	S.B.C.	Index 380
	6 w.	M.C.C.	989
	21 w.	S.C.C.	382
	6 w.	S.B.C.	209
	6 w.	M.C.C.	989
Map Lights	6 w.	Festoon	254
hts & Clock	2 w.	Peanut	281
Gear umination	2.2 w.	MES	987
	2A Unit Map Lights this & Clock	2A Unit 37.5/50w 6 w. 21 w. 6/21 w. 6 w. 21 w. 6 w. 6 w. 6 w. Map Lights 6 w. hts & Clock 2 w. 6 Gear	2A Unit 37.5/50w S.B. 6 w. S.B.C. 21 w. S.C.C. 6/21 w. S.B.C. 6 w. M.C.C. 21 w. S.C.C. 6 w. S.B.C. 6 w. S.B.C. 6 w. M.C.C. 1 w. S.C.C. 6 w. S.B.C. 6 w. M.C.C. Pestoon this & Clock 2 w. Peanut Gear

Headlamp Setting

Where possible, headlamps should be set by a professional using specially developed equipment. Mechanical Aimers for use on sealed beam units, or Lucas 'Beamsetter' equipment will enable the lights to be set quickly and accurately.

However, where such items are not available, the beams may be set, keeping the following points in mind.

- The beams should be set with the car in its normally loaded condition (i.e. 1 or 2 passengers, tank

 † full).
- Setting is most easily done with the car on a flat, level surface.
- c) Centre of maximum light intensity on high beam should be 2" below horizontal in 25 ft.

Adjustment is made by turning the screws on the light unit retaining plate, exposed by removing the rim. There is one screw for vertical adjustment, one for horizontal, except on the European-type unit, where there are two for horizontal adjustment.

Sidelights and Rear Lights

The lenses on all side and rear lights are secured by two Phillips screws. If these are removed, the lens may be taken off and the bulb changed. Bulbs in the stop/tail lamps have twin filaments, but the offset peg bayonet fixing ensures correct positioning. Those in the side lamps and front and rear flashers have single filaments only, and may be replaced either way round.

Reversing Number Plate Light

The combined reversing and number plate lamp is mounted directly beneath the rear number plate. The two bulbs illuminating the number plate come on with the sidelights, while the reversing light is operated whenever Reverse is selected on the gear change quadrant.

Access to all bulbs is gained by removing the two chromed countersunk screws in the cover of the lamp, thus allowing the cover and lens to be withdrawn.

Map Light

The bulb can be replaced through the light vent.

Gear Change Quadrant Light

To gain access to this light it is necessary to move the selector cover up the steering column towards the wheel. The cover is secured by three wing nuts which can be loosened from behind the facia. When the cover is withdrawn, the lamp holder can be pulled to the left, out of its housing, and the bulb changed.

Interior (Roof) Light

The interior lamp is mounted in the centre of the roof, and is operated by the opening of either door. It can also be switched on at the light itself. The plastic cover is held in place by four tongues, and can be removed by squeezing it in the middle. The festoon type bulb can then be changed.

Boot Light

To replace bulb, turn plastic cover through 90° and withdraw.

Warning Lights

The location of the four warning lights are shown on Fig. 1. To replace bulbs the following procedure should be adopted:

- 1) Rear Demist
 - Remove centre panel by removing the two P.K. screws and withdraw bulb holders.
- 2) Flasher

Remove facia crash pad and withdraw bulb holder.

Main Beam and Low Fuel
 Withdraw bulb holders from rear of appropriate instrument.

RADIO

A Motorola fully-transistorised push-button radio operating through twin rear speakers is fitted as standard equipment. Full operating instructions are given in the separate manual accompanying the car.

N.B. It should be emphasised that the small grille beneath the facia is **not** a loud-speaker, but is part of the vehicle's heating system.

Tool Kit

An adequate set of tools is supplied with the car.

The tools are stowed in a compartment on the left hand side of the boot.

The tool kit comprises the following:-

- 1-Phillips Head Screwdriver.
- 1-Standard Screwdriver.
- 1-Electricians' Screwdriver.
- 1-Plug Spanner.
- 1—Open Ended Spanner, 75" × ½" A/F.
- 1-Open Ended Spanner, %" × &" A/F.
- 1—Open Ended Spanner, \(\dagger^* \times \\dagger^* \times A/F.\)
- 1-Adjustable Spanner, 3*
- 1-Pair Pliers.
- 1-Tyre Pressure Gauge.
- 1-Lifting Jack.
- 1—Wheelbrace, ₹" A/F.
- 1-Adaptor for Spare Wheel bracket operation.



Equipment

JENSEN MOTORS LTD. accept no liability for tyres, batteries or radios not manufactured by the Company although supplied by the Company. All claims in respect of such should be addressed to their respective manufacturers at their addresses quoted below.

Important

When claims are being made under guarantee it is essential to quote the chassis number, which is stamped on a plate located under the companion box lid, and the date on which the car was commissioned.

Battery

Joseph Lucas (Electrical) Ltd., Gt. Hampton Street, Birmingham 18, or Dordrecht Road, Acton Vale, London, W.3.

Tyres

Dunlop Rubber Co. Ltd., Fort Dunlop, Birmingham, or 1, Albany Street, London, N.W.1.

Radio

World Radio Ltd., Edgware Road, Cricklewood, London, N.W.2.

As our policy is one of continual improvement, we reserve the right to alter the specification and maintenance instructions without notice.



SERVICE LUBRICATION

ENGINE UNIT		CAPACITIES	PERIODS	DETAILS		
Abave + 32°F. As low as + 10°F.		SAE 20W-40 or SAE 40	4,000 m. (6,500 k.)	Check of and top up in decessary at more frequen		
		SAE 10W-30 or SAE 10W	or 3 Months			
Sump	As low as -10°F.)		intervals when new. Change filter.		
Below -10°F.	SAE 6W-20	3				
Sump Filter		8§ pints (Brit. Imp. 10 pints (U.S.) 4.7 litres)	If changed separately.		
Oil Filler Air Cleaner		SAE 30	Normal 8,000 m. (13,000 k.) Desty 500 m. (800 k.)	Chan with parellin or petrol and re-oil.		
Carbon	man and Att	Element 2402677	Clean 8,000 m. (13,000 k.) or 6 Months	Clean housing and cover Remove wasp from filter and wash in parallin to remove dist and oil. Shake or blod dry. Clean filter with as		
Carburstor and Air Cleaner		Wrap 2463982	Renew 32,000 m (51,000 k.) or 2 Years	dry, Clean filter with as neczie (mis. 2° away) from inside. Discard element i damagad. Discard element and wrap if oil shows on 2/3 of circumference.		
		5AE 10W-30	8,000 m. (13,000 k.)	5-10 drops in oil cup.		
Distributor		SAE 10W-30 M.P. Chamin Grease	ar 6 Months	Lubricate felt rotor wick with 2-3 drops. Wips com and humper block clean and apply thin scat of grease.		
Manifold Heat Control Valve		Heat Control Valve Solvent P/N, 1879318 Shell Donax P.	8,000 m. {13,000 k.} at 6 Months	Lubricate each end of the valve shaft when manifold is cool and move control back and forth.		
Crankcase Ventilator Valve		ř	8,000 m. (13,000 k.) te 6 Monstra	Check valve. With engine idling remove valve. Infect should hiss and vacuum should his left. Pernove of filler cap. A piece of stiff paper should be sucked against filler tube. With engine off valve should click when shaken. Replace valve if none of these occur.		
Fuel Filter		Filter 2120024	28,000 m. {32,000 k.} 80,000 m. (130,000 k.)	Replace filter No. 1. Replace filter No. 2. Earlier replacement may be necessary under some op- erating conditions.		
Carburettor Choke		Mopar Carbirettor Cleaner 1643273 (Denatured alcohol)		Apply cleaner to ends of choke shaft where it rotates in air horn while moving choke shaft beckwards and forwards.		

ENGINE UNIT	GRADE AND CAPACITIES	ATTENTION PERIODS	DETAILS
Alternator	2058840 40 Amp.	4,000 m. (6,500 k.) or 3 Months	Wipe clean and inspect ventilation holes for dir- accumulation.
Engine Tune Up		10,000 m. (16,000 k.)	Spark Plegs. Clean and adjust, if necessary replace.
		1 Year	Distributor. Remove cap and rotor clean and inspect. Check breaker points for pitting blacing and misalignmen and clean and adjust. Lubricate cam and wick, Check all wires and ceps for seating and clean and set for ignition triving. Carburettor. Clean air filter. Check fastidle cam. Adjust title special mixture to correct setting. Tighten carburetter transitold nuts. Check operation of choke piston are manifold heat control and cankcase ventilator valve. Use appropriate solvents in necessary. Electrical. Check battery S.G. Clear and tighten battery terminals and connections. Test battery line voltage at starter Test starter cranking ability.
Autometic Transmission	Automatic Transmission Fluid Type "A" Suffix "A". Note 1. Use Tundish for ease of filling. Note 2. For normal use no oil change is necessary.	8,000 m, (13,000 k.) or 6 Months	With engine and trans- mission at normal operating temperatures and engine idling, and hand brake on mementarily angage each gaer ending in neutral Check fluid level which should be at or below "F mark but never above when in its wermed up condition. Add or drain of oil. If absolutely necessar, to check cold, fluid shout be at slightly below the add one pint mark. If below add
	17 pints (Brit. Imp.) 20 pints (U.S.) 9.5 litres	32,000 m. (51,000 k.) or 2 Years	one pint. Only for cars operating understructural conditions. Adjust auto transmission and replace oil and filter Abnormal conditions are at follows: (a) Frequent trailer towing (h) Operating in dense traffic in hot weather. (c) Operate frequently with abnormal loads.
Manual Transmission	SAE 140 Multi-purpose Gear Lubricant Capacity 6 pints (Brit, Imp.) 7 pints (U.S.) 3.3 libres	8,000 m. (13,000 k.) or 6 Months	Check fluid level by removing filler plug. Replanish to filler hale. For normal service no change is required. If shift becomes accessively heavy in winer a change may be made to SAE-80 or 90, or even auto trans type A Suffix "A". Desin and refill

UNIT	GRADE AND CAPACITY	ATTENTION PERIOD	DETAILS
Prop. Shalt Universal Joins	Cross and Relier Multi-purpose Grame NLGI Grade 'O' (U.S.)	8,000 m. (13,000 k.) or 6 Months	Inspect for external lookage or damage.
(a) Front-C.V. Double Cross and Roller with Sliding Yoke. (b) Rear Cross and Roller	Sliding Yoke Muti-Mileage labricant P/N, 2525035	o monino	Do not dis-assemble unless external leekage or damage is noted.
Rear Axle	Use only Shell 90 EP. S.C.L. (S1747 A) 3 Pints (Bot. Imp.)	4,000 m. (6,900 k.) 12,000 m. (19,500 k.)	Check and top up. Drain and refil. (N.B.—Drain and refill at 1,000 m.)
Wheel Hub-Front	Multi-Purpose Grease	16,000 m. (28,000 k.) 32,000 m. (51,000 k.)	Inspect and repack if grease is emulsified. Clean and repack.
Wheel Hub—Rear	Multi-Purpose Grease	4,000 m. (6,500 k.) 32,000 m. (51,000 k.)	Grease-gun. Clean and repack.
Steering Reck	Multi-Purpose Grease	4,000 m. (6,500 k.)	Grease-gun.
Front Suspension 3 Points/Side	Multi-Purpose Grease	1,000 m. (1,625 k.)	Grease-gun.
Brake Salance Lever	Multi-Purpose Grease	4,000 m. (6.500 k.)	Grease-gun.
Shock Absorbers Front Suspension	Armstrong Hydraulic Fluid	4,000 m. (6,500 k.)	Inspect and top up.
Steering Rack Dempere	Shell Tellus 15	4,000 m. (6,600 k.)	Inspect and top up.
Clutch Bellcrank Lever	Light Oil	4.000 m. (6,500 k.)	Oi-gus.
Clutch Bellcrank and Fork Linkages	Light Oil	4,000 m. (6,500 k.)	Oil-can.
Brake and Clusch Master Cylindera	Hydraulic Breke Fluid. Dunlop Disc Breke Fluid	Monthly or 2,000 m. (3,250 k.)	Check and top up.
Oil Filter	Moper Pt. No. 2129109	8,000 m. (13,000 k.)	Replace oil filter element.
Sperk Plug	Champion J-10Y	8,000 m. (13,000 k.) 20,000 m. (32,000 k.)	Chack, clean, regap. Replace.
Body Maintenance	Light Oil	4,000 m. (6,500 k.) or 6 Months	Door hinges: Door looks and handle push button: Window vent pivot: Rear Otr. light hinge. Shroud telescopic support hings pin: Boot lid hinge pin: Fuel filler lid hinge: Boot look push button.
	Greese M.P.		Shroud lock: Shroud safety eatch: Shroud telescopic shaft: Boot lid hinge tersion bar roller: Boot lock: Seat slides.
	Grease M.P.	32,000 m. or 2 Years	Window wind mechanism, Door lock mechanism.

RECOMMENDED LUBRICANTS FOR JENSEN C-V8

	SHELL	B.P.	6880	CASTROL	MOBIL
Above + 32°F.	Shall X-100 30 or Shall Super Motor Oil	Energal SAE 30 or Visco-Statis	Usso Estra Mosor Oil 1DW/30	Casholbe	Motile Special or Mobilel A
At Low at + 10°F.	Shell X-100 20W or Shell Super Motor Oil	Energol SAE 20W or Visco Static	Esso Extra Motor Oil 10W/30	Castrolite	Mobile Special Medical Arctic
As Low as — 10°F.	Shell K-100 10W or Shell Saper Motor Oil	Energol SAE 10W or Visco Statio	Esso Extra Motor Oil 10W/30	Castrolite	Mobiloii Special O Mobiloii 10W
Balow — 10°F.	Shall X-100 Multigrada 5W/20	Energol SAL SW	Esso Exes Mater Oil 6W/20	Castrol 22	Mobiled Special or Mobiled SW
Oil Filler Air Cleaner	Shell X-100 30	Energal SAE 30	Isso Extra Motor Of 10M/30	Cassol XI.	Motsleil A
Distributor	Shall Super Motor Oil	Energol Visco Statio	Esso Extra Motor Oil 10W/30	Castrosta	Mobiled Sperial
Automatic Transmission	Donex 76	BPAFTType A	Esso Auto Trans Fluid	Castrol TO.	Mobiliud 200
Manual Transmission	Spinx 140 EP or 90 EP	SAS 160 EP or SAE 90 EP	Esso Gear Oil GP 90/140	Castrol Hipmus or Castrol Hypoid	Mobilube GX 140 Mobilube GX 90
Rear Axle	Transmission Of 80 EP SCL	None	None	None	None
All Grease Points	Retinax A	Energresse L2	Esso Mulis-Purposa Greate	Cestrolease LM	Mobignesse Special
Veselerator, Clutch and Fork Linkages		AS	AS FOR ENGINE		

N.B. ... Additives to any of the above lubricants are not recommended.

Index

Only the right-hand pages of this loose leaf book are numbered; if the index matter does not appear on the right hand page, it will be found, by turning over, on the reverse side of that sheet.

	A			Page				Page
Air Cleaner				14		=		
Alternator		101		24	Fans-Cooling			
Ammeter		8	0	7	Filter—air			16
Antifreeze		Q =	- 53	16	Filter—fuel	*	01	14
Ash Trays		30		22		7		12
Axle—Rear		100	33	17	Filter—oil -		+	10
3,500					First Ald Kit .	0.7	90	22
	В				Flushing		1	16
Battery				24	Front Suspension			18
Bearings—Fro	at He	the		18	Fuel System ,	200	7.1	12
Bodywork	-		25	21	Fuses . ,	200	+	24
	8	*	*	21				
Boot , Brakes ,	9			19	(7.50		
		1			Gearbox-lubricat			28
Bulbs ,		14.	(4)	25	Gearbox—(autom	atic) o	op-	
	C				eration ,		201	8
Carburettor			93	12	Gearbox-(manue	n op	er-	107
		-	-4		ation .		200	9
Carpets	9		3	22	Gauges .			7
Choke .	9	-	-	8		+		
Cigar Lighter		+	+	6				
Clock _		-	-	6	Handbrake			6
Clutch .		-	+	9	Headlamp adjustm	ton.	-	25
Contact Break	or Go	p	+	4		entilati		20
Controls .		+		5	- Control - Cont	munau	ion.	20
Cooling System	n	*	4.	16	Horns .			23
Crankcase Ven	tilatio	on		14		-		.7
					Hubs-front .	+		18
	D				Hubs-rear .			18
Dampers—from	t	90	+	18				
Dampers-rear			4	18	1 Name 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			12
Data general .	3		4	4	Idling		100	9
Demister rear .		18	40	6	Ignition—switch	100		6
Dimensions .				4	Ignition—system			15
Direction Indic	ators	88		6	Ignition—timing			4
Distributor .				15	Instruments			5
Doors .			300	21				
STATE OF THE PARTY		755			J			
CONTRACTOR IN	E				Jacking system	0.00	200	20
Engine data		+	40	4		1.5		
Engine lubricat	ion	+		28	K			
Engine starting	E.			8	Keys	18		21
Electrical Equip	men	t	+	24	Kick-down .			8

			Page			Page
	L			s		
Lights .		18	25	Safety Belts .		. 21
Linkage-thro	ttle	0	13	Seat Adjustment		. 21
Lockers		23	21	Selectande		. 7
Lubrication-	xle .	20	29	Service Lubrication		. 28
Lubrication-		33	10	Sarvo	. 3	. 19
Lubrication-e		27.	28	Shroud	. 9	. 21
Lubrication-			28	Slow running		. 12
and the state of t	pour cont			Spare wheel .		. 22
				Sparking plugs		. 4
	M			Speedometer .		. 7
	***			Starting .		. 8
Map light			6	Steering		. 18
				Sump .		10
				Suspension—front	į.	. 18
	N			Suspension—rear		. 18
Numbers-ide	ntification	8 8	4	Duspension - Tolli		. 10
AND CONTRACTOR CONTRACTOR		5. 5.0		Т		
				Tappets .	4 5	4
	0			Temperature Gauge		. 7
Oil Filter			10	Thermostat .	1	. 16
Oil Pressure		100	7	Throttle Linkage		. 13
Oil Pressure .			1	Topl Kit	0	26
				Towing .	9	. 9
				Transmission—lubric	etion	. 28
				Transmission—opera		. 17
Panel lights			6	Tyres	and a	. 20
Pedals		100	6	133		
Propeller shaft		- 3	17	U		
Push-starting	+5	1	9	Upholstery .		. 22
				. v		
	R			Valve Tappets		. 4
w				Ventilation systems		. 23
Radiator			16	Voltage control box		. 24
Radio .			25	The state of the s		100
Rear Axle		1	17	W		
Recommende	1 Lubrica	nts	29	Warning lights		, 25
Re-fuel.			7	Wheels-alignment		. 18
Replacement I	Bulbs .		25	Wheels-balance		20
Reversing ligh	t .	1	25	Windscreen washers		. 6
Revolution Co	unter .	1	7	Windscreen wipers		. 6
Bunning Instru	ections	60	8	Wiring Diagram		. 30