

CLASSIFICATION SYSTEM COMMON TO ALL AFTER-SALES MANUALS

A - ENGINE

- A0 - Engine assembly
- A1 - Cylinder-block
- A2 - Moving parts
- A3 - Cylinder head
- A4 - Timing gear

B - LUBRICATION

- B0 - General
- B1 - Oil sump
- B2 - Oil pump
- B3 - Oil filter

C - FUEL SYSTEM

- C0 - General
- C1 - Petrol tank
- C2 - Petrol pump and pipes
- C3 - Air filter and warm air intake
- C4 - Carburettor
- C5 - Exhaust

D - COOLING

- D0 - General
- D1 - Radiator
- D2 - Fan
- D3 - Hoses
- D4 - Water pump

E - ENGINE ELECTRICAL SYSTEM

- E0 - General
- E1 - Starting
- E2 - Charging
- E3 - Ignition

F - TRANSMISSION

- F0 - General
- F1 - Clutch
- F3 - Gear box
- F4 - Automatic gear box
- F5 - Drive shaft
- F6 - Differential and wheel shafts

G - SUSPENSION

- G0 - General
- G1 - Front suspension
- G2 - Rear suspension
- G3 - Wheels
- G4 - Tyres

H - STEERING

- H0 - General
- H1 - Steering
- H3 - Adjustment of vehicle trim
Adjustment of front wheel
set geometry

J - BRAKES

- J0 - General
- J2 - Front brakes (discs)
- J3 - Rear brakes (drums)
- J4 - Rear brakes (discs)
- J5 - Brake control system -
servo-brakes

K - BODY ELECTRICAL SYSTEM

- K1 - Wiring diagram
- K2 - Inner electrical instruments
- K3 - Indicator lights
- K4 - Windscreen-wipers
- K5 - Horns and control system
- K6 - Air conditioning

L - BODY IN WHITE AND TRIM

- L0 - General
- L1 - Front end
- L2 - Central section
- L3 - Rear end

M - PAINT - APPLICATION PROCEDURES

N - ACCESSORIES

- N1 - Car radio
- N4 - Trailer attachment

PRESENTATION OF MANUAL

This manual is part of the series of publications designed with a common classification system for easier maintenance of our vehicles:

- . Spare Part Catalogue
- . Workshop Manual
- . Time Schedule
- . List of Specific Tooling

The classification system common to these manuals will be found on page 1.

This manual is divided into chapters corresponding to the main units of the vehicle.

Chapters are identified by a letter.

Within the framework of a chapter, the classifications of sections, i.e. of information concerning the units of which a given assembly is comprised, is identified by the letter corresponding to the relevant chapter followed by a number used to identify the individual unit.

For easier information finding, the section reference is followed by a roman number, which specifies the nature of the information given on the unit in the section concerned:

- I. Description - General - General specifications.
- II. Tightening torque values.
- III. Specific tooling.
- IV. Unit maintenance and adjustment procedures, on car.
- V. Unit removal and re-fitting procedures.
- VI. Removed unit dismantling and re-assembly procedures, inclusive of inspection after re-assembly.
- VII. Reconditioning procedure - Acceptance criteria for recoverable components.

The information classification reference, or section symbol, appears in the box printed on the top outer corner of each page.

Page numbers are shown immediately below the classification reference or section number, and page numbering starts from 1 for each individual section.

The structure of our classification system, therefore, is as follows:

- 1 - Chapters : identified by a letter. They correspond to the main vehicle assemblies.
- 2 - Sections : identified by the chapter identification letter followed by a number identifying the unit concerned, and a roman numeral indicating the nature of the information.
- 3 - Page numbers : progressive numbering of pages for each section.

KEEPING MANUAL UP-TO-DATE

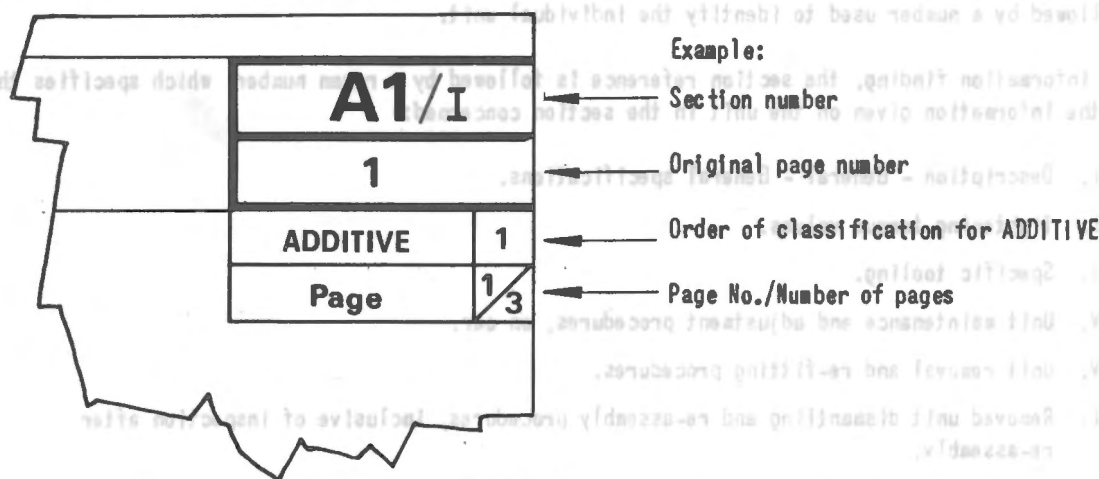
Up-dating is a continuous process. It is achieved by the publication of additional pages to the basic text, which have to be inserted before the corresponding modified pages.

Additional pages are coloured for easier identification.

The classification reference - section number - of each "additive" corresponds to the reference number of the basic page it modifies.

Two additional boxes are provided under the section number:

- the first box will contain the word ADDITIVE followed by a number indicating the order of classification, in cases where several ADDITIVES correspond to the same original page;
- the second box will contain the page number, and an indication of the number of pages of the ADDITIVE concerned.

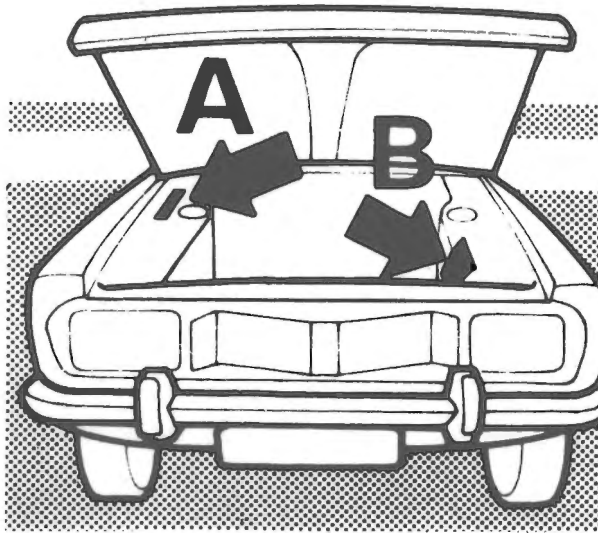


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Note: Approximately every 3 years, a new manual pooling all previously issued additives is published.

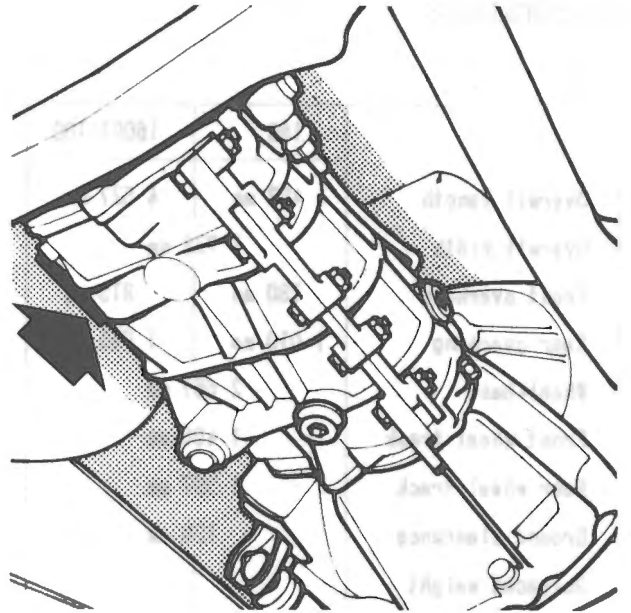
GENERAL

- . Vehicle identification
- . Dimensions and weights
- . Jacking the vehicle
- . Operations to be carried out before delivery
- . Operations to be carried out for free overhaul
- . Certified and recommended maintenance operations



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Fig. 1 - A : Type Serial No.
B : Original body paint identification.



G.003

Fig. 3 - Gear-box No.

Fig. 2 - Engine No.

G.002

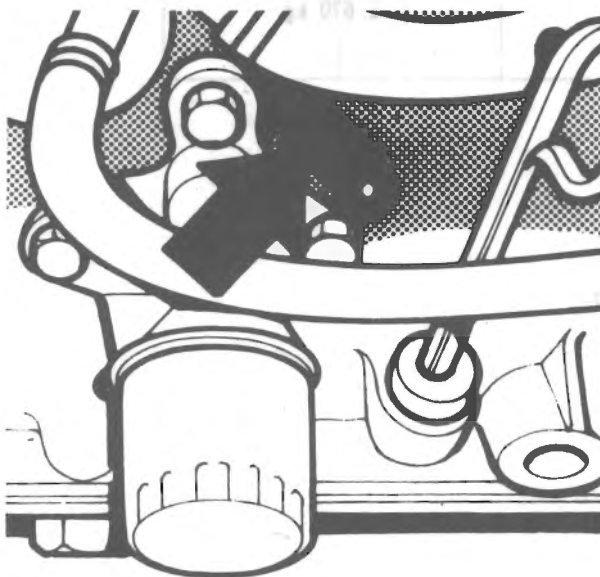
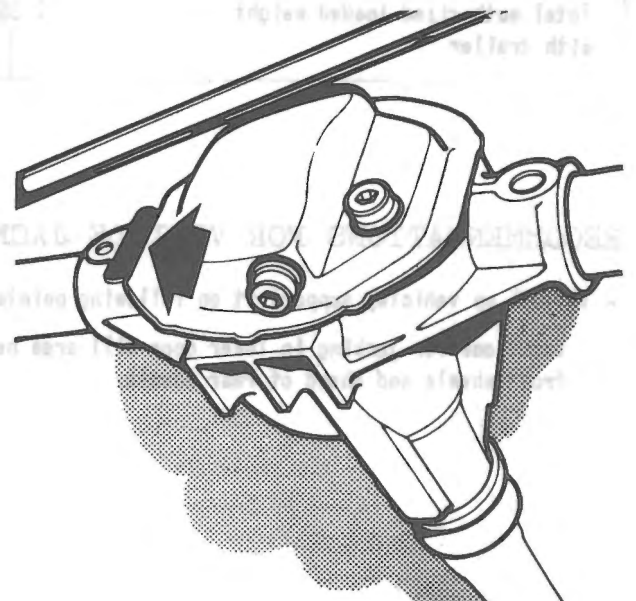


Fig. 4 - Differential No.

G.004



DIMENSIONS AND WEIGHTS JACKING THE VEHICLE

DIMENSIONS

	160	160GT-180
Overall length	4 457 mm	4 527 mm
Overall width	1 728 mm	
Front overhang	780 mm	815 mm
Rear overhang	1 010 mm	1 045 mm
Wheel-base	2 667 mm	
Front wheel track	1 400 mm	
Rear wheel track	1 397 mm	
Ground clearance	120 mm	
Unloaded weight		
Loaded weight		



WEIGHTS

	160		160GT-180	
	Manual Trans.	Auto. Trans.	Man. Trans.	Auto. Trans.
Unloaded weight in running order i.e. at front at rear	1 065 kg	1 080 kg	1 095 kg	1 110 kg
	572 kg	585 kg	585 kg	595 kg
	493 kg	495 kg	510 kg	515 kg
Total authorized loaded weight i.e. at front at rear	1 490 kg		1 520 kg	
	2 390 kg		2 670 kg	
Total authorized loaded weight with trailer	2 390 kg		2 670 kg	

RECOMMENDATIONS FOR VEHICLE JACKING

- To jack up vehicle, support it on following points only:
 - . locations for jacking in lower door sill area behind front wheels and ahead of rear wheels.

OPERATIONS TO BE CARRIED OUT BEFORE DELIVERY

BEFORE TESTING

- Remove protective coating and wash car.
- Check wheels are properly tightened.
- Inflate tyres to correct pressure.
- Check levels of all fluids.
- Check sealing for all systems.
- Check that battery is correctly charged.

ROAD TEST

- Check operation of:
 - . all mechanical units
 - . all electrical units and accessories
 - . all body components and equipment

AFTER TESTING

- Correct all possible faults.
- Check that headlights are set properly.
- Adjust idle setting.

FINISHING

- Clean inside and outside.
- Check overall appearance.

OPERATIONS TO BE CARRIED OUT FOR FREE OVERHAUL

1 - VEHICLE RESTING ON GROUND

- Check operation of bonnet catch release control.

Operations in engine compartment

- Remove air filter assembly with cool air intake sleeve, oil fume suction tube, carburettor air intake connection, and cylinder-head cover.
- Remove 4 spark-plugs.
- Re-tighten cylinder-head setscrews to a 9 m da N torque in the prescribed order; this operation is to be carried out when engine is cold.
- Set valve clearance to:
 - . .25 mm for inlet valves
 - . .35 mm for exhaust valves.

SETTING PROCEDURE

Put vehicle into gear (4th), release hand-brake, and move a wheel to rotate engine in order to set valves of a given cylinder in a balanced position, so that play between valve stem and bearing bush of opposite cylinder can be adjusted.

Example: to adjust rocking levers for cylinder No. 1, set cylinder No. 4 in balanced position; rocking-levers for cylinder No. 2: cylinder No. 3 valves; rocking-levers for cylinder No. 3: cylinder No. 2 valves; rocking-levers for cylinder No. 4: cylinder No. 1 valves.

- Re-fit cylinder-head cover after checking condition of gasket.

- Check, clean, and adjust spark plugs :
electrode gap .6 mm.
- Re-fit spark plugs.
- Check and clean carburettor.
- Check accelerator control stroke, oil linkage.
- Check operation and clearance of choke control, on 160 model only.
- Check cleanliness of fuel pump filter.
- Check engine oil and brake fluid levels.
- Check that the following are correctly tightened:
 - . radiator
 - . inlet manifold
 - . water outlet cover and elbow
 - . carburettor
 - . water pump
 - . timing gear cover
 - . water draining plug on cylinder block
 - . 4 upper nuts on exhaust manifold
 - . 2 upper nuts fastening exhaust flange to manifold
 - . front shock-absorber upper attachments
 - . servo-brake and clutch and brake master-cylinders.

- Check connection of electric fan and its thermostat on 160 GT and 180 models.
- Check sealing of cooling system and condition of all hoses, together with radiator level.
- Check sealing of fuel supply system.
- Re-fit air filter assembly.
- Adjust belt tension.

Operations in luggage compartment

- Check proper operation of luggage trunk opening control.
- Check proper operation of lock.
- Check that retainer is tightened correctly, adjust it if necessary.
- Check that rear shock-absorber fastening nuts are tightened properly.

Operations inside car

- On front doors, check proper operation of:
 - . door opening controls
 - . door locking systems
 - . window-lifters
 - . locks
 - . courtesy light switch on lower front pillar
- On rear doors, check proper operation of:
 - . door opening controls
 - . door locking systems
 - . window lifters
- If necessary, adjust front and rear door strikers.
- On front seats, check:
 - . correct sliding of seats
 - . correct locking in various positions
 - . proper inclination and locking of seat backs in position.
- Check proper operation of:
 - . side ventilators
 - . roof light
 - . "night and day" rear view mirror
 - . electric clock on 160 and 180 models
 - . cigar lighter on 180 model
 - . trip recorder resetting device on 180 model
- Check that glove box is closing properly and that lock operates correctly.
- Check proper operation of:
 - . clutch and brake pedal stops
 - . side lights

- . number plate light
- . instrument cluster lighting
- . dipped headlights
- . headlights (if need be, adjust headlights)
- . headlight indicator light on instrument cluster
- . ignition and starting switch, anti-joy-ride device
- . oil warning light
- . water temperature indicator
- . fuel gauge
- . charging indicator light
- . front and rear R.H. and L.H. trafficators
- . trafficator indicator light
- . steering-wheel trafficator control return system
- . horn
- . windscreen-wiperw (on both positions)
- . windscreen-washer (adjust nozzles if necessary)
- . air-conditioner fan
- . air distributor and defroster.

2 - VEHICLE ON LIFTING RAMP (operations on underside of car)

- Check that the following are properly tightened:
 - . R.H. and L.H. engine mountings
 - . oil filter to cylinder block
 - . 4 exhaust manifold lower nuts
 - . 2 lower nuts fastening exhaust flange to manifold
 - . gear box fastening reinforcement to cylinder block
 - . rack to front cross-member
 - . starting motor to clutch housing and cylinder block
 - . clutch receiver cylinder
 - . gear box and clutch housing
 - . gear box rear cover
 - . engine central mounting to gear box and cross-member to body
 - . drag links to king pin arm
 - . stabilizer rod to body
 - . drag link lock-nuts
 - . tachometer tapping to gear box.

- Check condition and proper operation of rack sealing bellows.
- Check sealing of crankcase and of gear box and differential housings.
- Check that the following are properly tightened:
 - . king pin
 - . screws fastening king pin lower knuckle
 - . wheel play tie-rods
 - . alternator to cylinder block
 - . transmission coupling joint
 - . transmitter relay to body
 - . differential cover
 - . rear suspension lower arms to body
 - . differential to suspension arm
 - . upper suspension arms to differential and body
 - . anti-roll bar to body and differential
 - . petrol tank
 - . exhaust straps
 - . exhaust collars
 - . brake equalizer to body
 - . rear shock absorber lower attachments.
- Check hydraulic brake system sealing.
- Check gear box level
- Check differential level
- Check fuel gauge connection and its attachment to tank.

Operations on outside of car

- Inflate tyres to required pressure (inclusive of spare wheel tyre); required pressure : Saloon
Front : 1.7 bar - Rear : 1.9 bar.
- Verify and check that bolts are correctly tightened on all 4 wheels.
- Check and, if necessary, adjust hand-brake setting.
- Lift front and balance front wheels (if necessary).

Start engine

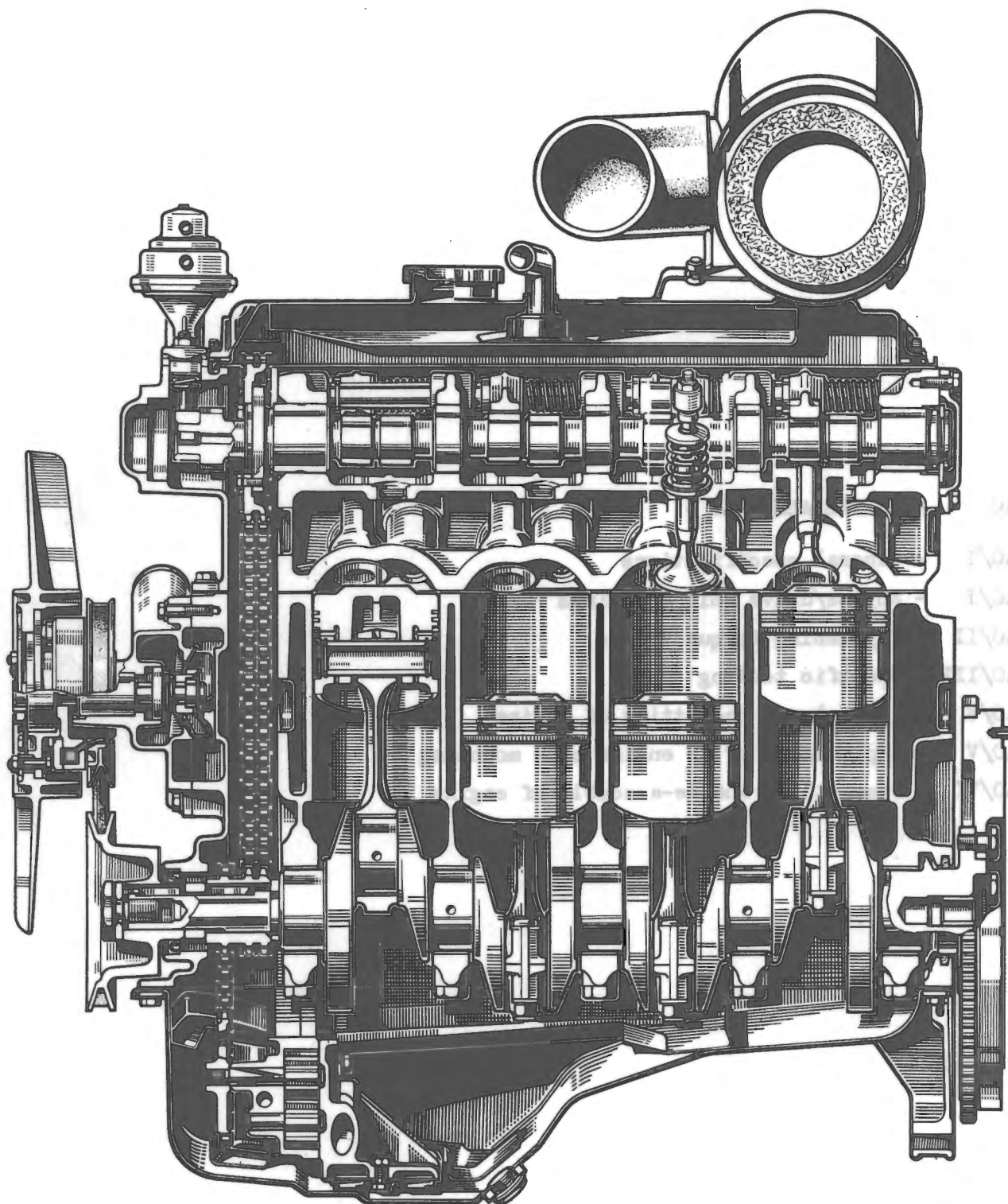
- Check proper operation of choke.
- Check alternator output.
- Check that oil warning light is off.
- Check and, if necessary, adjust closing angle of distributor contacts.
- Check and, if necessary, adjust initial setting of distributor, using stroboscopic lamp.
- Adjust idle setting.
- Check gear shifting and selection.

ROAD TESTING

- During this test, check proper operation of:
 - . releasable fan
 - . air-conditioner
 - . revolution indicator
 - . speedometer

CERTIFIED AND RECOMMENDED MAINTENANCE OPERATIONS

Please, kindly consult guarantee booklet for year under consideration.



W.1317

CHRYSLER
160 - 160 GT - 180

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Type: Internal combustion engine, 4 stroke, 4 cylinders in line with 15° transverse inclination, overhead camshaft.

Location on car: at front, longitudinally.

Firing order: 1 - 3 - 4 - 2

Direction of rotation: Clockwise when observer is facing front of engine.

Overall dimensions of engine-drive unit:

- length (with flywheel and fan) : 685 mm
- width (without air filter) : 560 mm
- height (without air filter) : 700 mm

Weight of engine only with accessories: 155 kg approx.

Weight of engine-drive unit: 200 kg approx.

	361 Engine	341 Engine
Trade name	CHRYSLER 160	CHRYSLER 180
Bore	83.40 mm	87.70 mm
Stroke	75 mm	75 mm
Cubic capacity	1639 c.c.	1812 c.c.
Stroke/Bore ratio	0.899	0.855
Compression ratio	9.2 ± 0.1	9.2 ± 0.1
Recommended fuel	Super	Super
Minimum RM octane index	98	98
For countries with low octane index		
Compression ratio	8.2	8.2
Recommended petrol	ordinary	ordinary
Minimum RM octane index	90-91	90-91
Fiscal power (French standards)	9 CV	10 CV
Effective DIN power	80 CV at 5600 r.p.m.	97 CV at 5600 r.p.m.
DIN maximum torque	12.5 mdaN at 3000 r.p.m.	14.7 mdaN at 3000 r.p.m.
Specific power	51.9 CV/litre	53.5 CV/litre

ENGINE-DRIVE UNIT MOUNTINGS

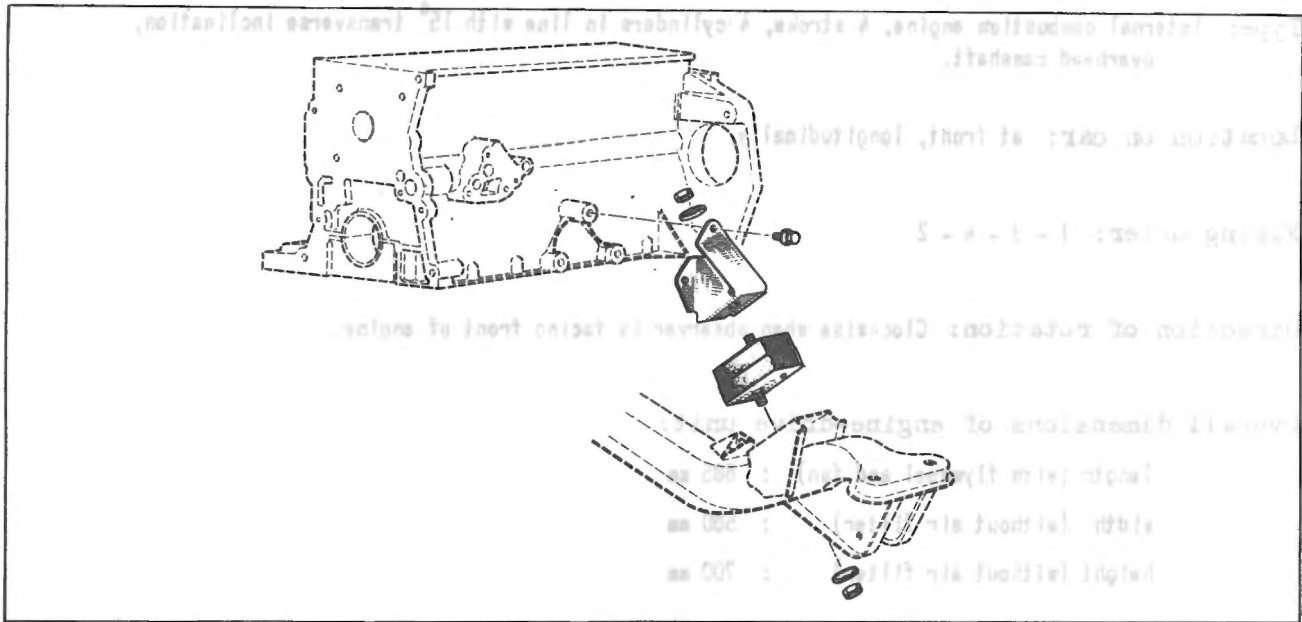


Fig. 1

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The engine drive unit is fastened in three points:

- a side point on either side of the cylinder block, by means of brackets and rubber blocks (Fig. 1) bearing against R.H. and L.H. side-members;
- a central rear point : a cross-member fitted between side-members carries a "silentbloc" vulcanized on a tab; this tab, which

protrudes from the silentbloc, directly supports the gear box extension (Fig. 2).

Note: The side mountings attached to the cylinder block have different fastening distances between centres.

Fig. 2

G.006

