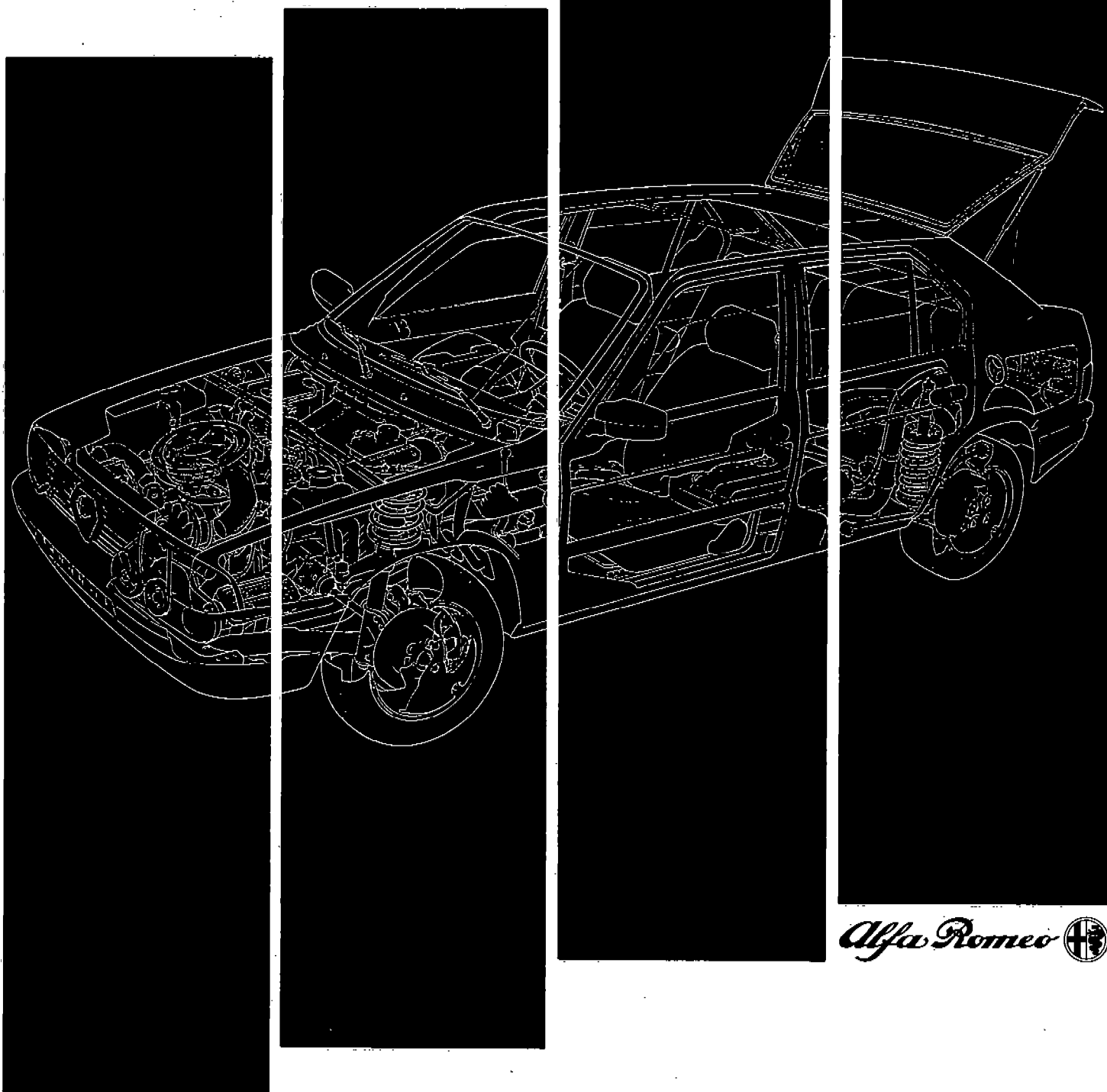


# WORKSHOP MANUAL

**Alfa 33**



DIREZIONE ASSISTENZA

COMPLETE CAR

£13-



# GROUP 00

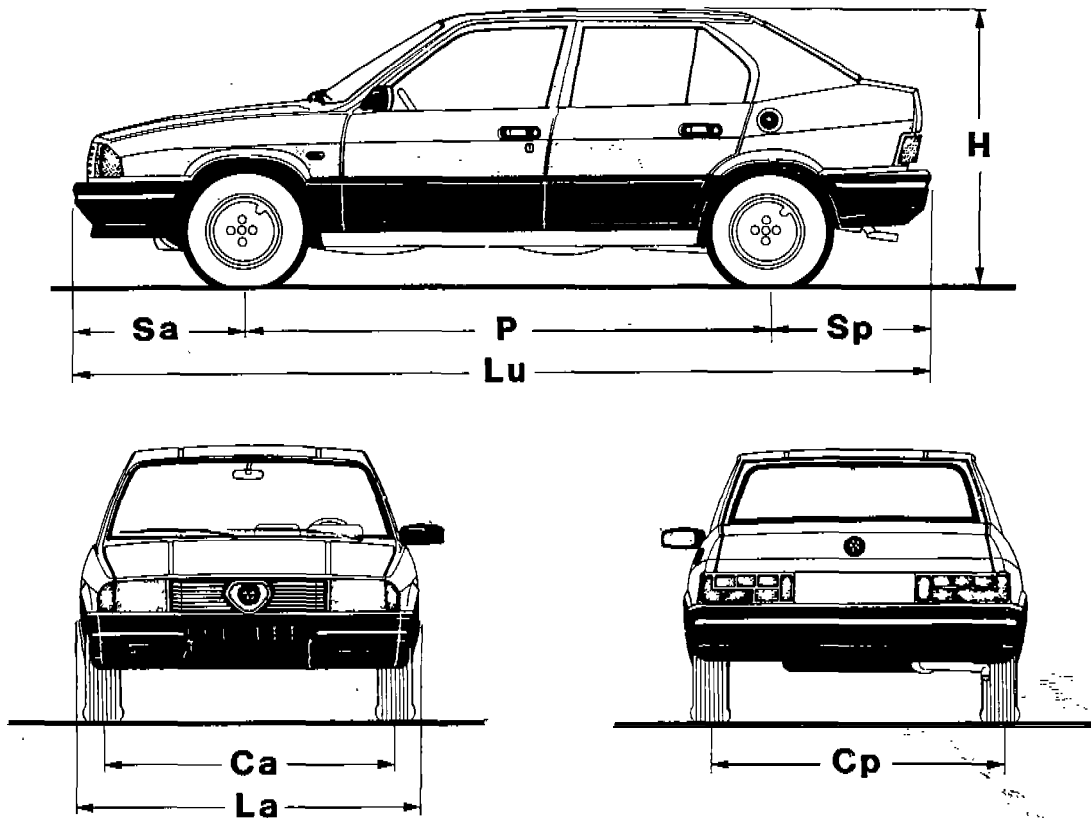
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# GENERAL VIEWS



## DIMENSIONS AND WEIGHTS

Model			1200	1350	1500
identification number			905.00	905.02 <b>905.03</b>	905.04 - 905.05 <b>905.06 - 905.07</b>
Wheelbase	P	m m (in)	2455 (96.65)		
Track	Front	Ca	1392 (54.8)		
	Rear	CP	<b>1359 (53.5)</b>		
Overall length	Lu	m m (in)	4015 (158.07)		
Overhang	Front	Sa	<b>800 (31.5)</b>		
	Rear	SP	760 (29.921)		
Overall width	La	m m (in)	<b>1612 (63.46)</b>		
Height (unladen)	H	m m (in)	1305 (51.38)		
Ground clearance		m m (in)	121 (4.76)		
Min. steering radius		mm (in)	4700 (185.04)		
Kerb weight		kg (lb)	<b>890 (1962.1)</b>		
Max. allowed gross weight		kg (lb)	<b>1315 (2899)</b>		
Payload		kg (lb)	425 (936.91)		
Max. allowed axle gross weight	Front	kg (lb)	725 (1598.31)		
	Rear	kg (lb)	725 (1598.31)		
Max. towing gross weight		kg (lb)	<b>1000 (2204.6)</b>		
Seating capacity	Front		2		
	Rear		3		

COMPLETE CAR

# MODEL VARIATION

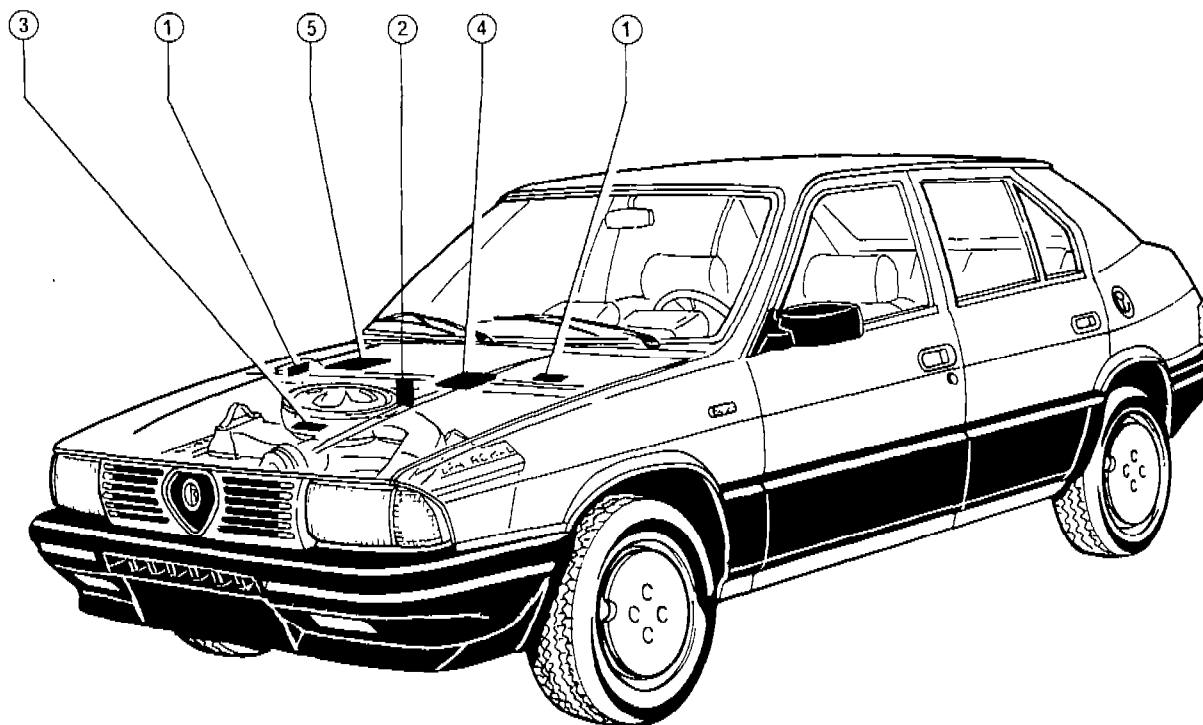
(Except Switzerland, Sweden, Australia)

Model		1200	1350	1500 QUADRIFOGLIO		1500			
Body		5-door saloon		5-door saloon					
Drive		Left	Right	Left	Right	Left	Right	Left	Right
Chassis No.	Identification No.	-- on certification label -- on identification label 905.00		905.02	905.03	905.04	905.05	905.06	905.07
	Type approval No.	-- on identification label 905 A	—	905 A1		905 A2		905 A2	
	Serial No.	-- on intermediate bulkhead label 905 A00		905 A1 0		905 A20		905A20	
		-- on intermediate bulkhead label from 05.001 .00	—	from 05.001 .001		from 05 . 0 0 1 .001			
	Engine No.	-- on cylinder block label 305.00 from 000.000.1	—	305.02 from 000.000.1		305.04 from 000.000.1			
Tire dimensions		165/70 SR 13		165/70 SR 13		165/70 SR 13			
Rim dimensions		5J x 13 H2		5J x 13 H2 or 5 1/2 J x 13 CH		5J x 13 H2 or 5 1/2 J x 13 CH			

# IDENTIFICATION DATA

**IDENTIFICATION LABELS**  
(Except Switzerland, Sweden, Australia)

5 - Door Saloon 1200-1350-1500



- 1 Certification and identification label (Identification No. and Type approval No.)
- 2 Intermediate bulkhead label (Type approval No. and serial No.)
- 3 Cylinder block label (Engine No.)
- 4 Lubrication data label (see "Fluids and Lubricants" of each group) (Lubrication data)
- 5 Paint label (This label indicates the product used for the first paint) (Paint)

## VEHICLE IDENTIFICATION (AND SERVICE) DATA

### VEHICLE IDENTIFICATION CODES

#### A) Chassis numbering

Z A R 9 0 5 A 0 0 0 5 . 0 0 2 . 4 5 8  
(1) (3) (2)

(1) Manufacturer identification letters.

(2) Serial number: progressively assigned by Production.

(3) "Type approval number": not for service identification use; for service purposes, use the "type number" which is stamped on identification label along with the "type approval number".

The following is an example of such label.

(4) Identification number: to be

used as vehicle service identification number. This number consists of five figure numbers, divided as follows:  
4a) Basic type number: it is assigned to all vehicles having a common design concept (Ex.: 905: Saloon).  
4b) Type variant number: it identifies, within the basic type, those vehicles that differ because of some variant that alters their features (Ex.: 905.02 5-door Saloon).

ALFA ROMEO AUTO SPA		
		kg
		kg
1-		kg
2-		kg
905/A TIPO/VERSIONE	305.00 TIPO MOTORE	905.00 CODICE INTERNO
905 00		
a b		
(4)		

B) Engine numbering

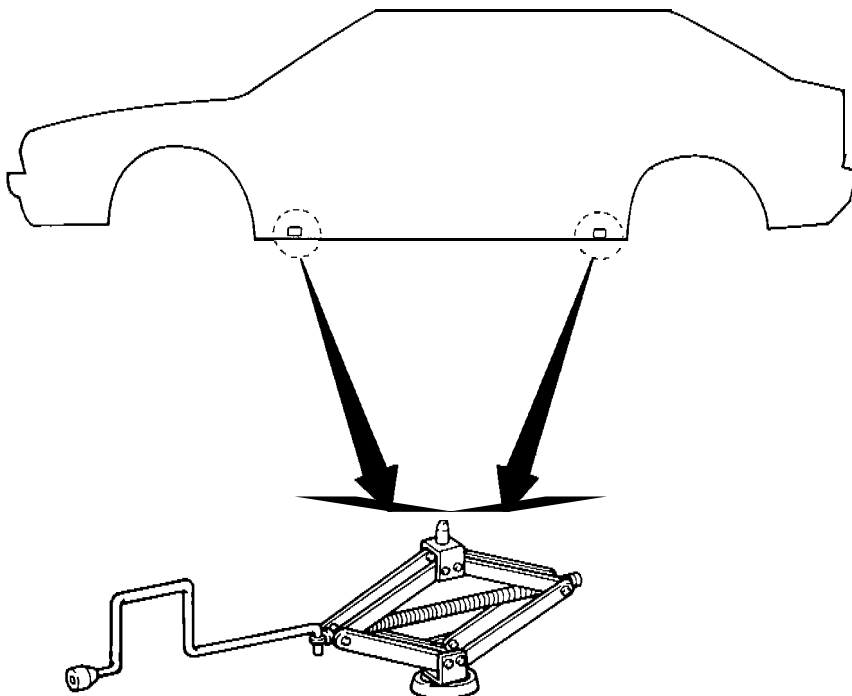
It consists of two sets of figures, namely:

305.00                      00045 12  
(1)                              (2)

- (1) Type number: it is assigned to all engines having common general technical characteristics (Ex.: 305.02: 1350 engine with twin carburetor).
- (2) Serial number: progressively assigned by production.

## LIFTING POINTS AND TOWING

### PANTOGRAPH JACK

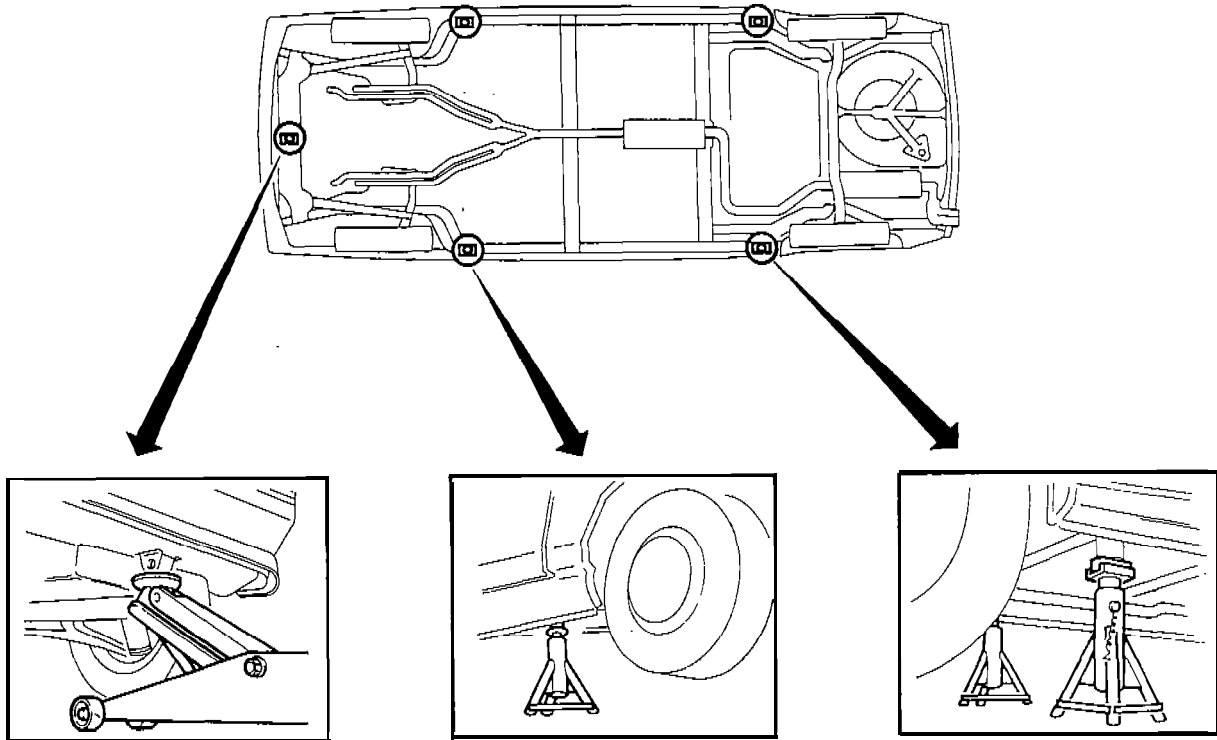


WARNING:

- a. Never get under the vehicle while it is supported only by the jack. Always use safety stands to support frame when you have to work under the vehicle.
- b. Place wheel chocks at both front and back of the wheels diagonally opposite the jack's position.

Fit pantograph jack, supplied with the vehicle, to safety points shown in figure.

GARAGE JACK AND SAFETY STANDS



**WARNING:**

- a. When raising vehicle with garage jack, be sure to support it with safety stands.
- b. When jacking up the rear (front) of the vehicle, place chocks in front (in back) of the front (rear) wheels.

**CAUTION:**

When raising the vehicle, always place a wooden block under vehicle's lifting points.  
Position garage jack and safety stands' in a safe manner under the points shown in the figure.

**TOWING**

Closely follow Motor Vehicle Regulations regarding vehicle towing.

**CAUTION:**

- a. Use proper towing equipment to avoid possible damage to the vehicle.
- b. Before towing, make sure that front and rear axes as well as steering system are in good working condition; contrarywise use a dolly.
- c. If vehicle must be towed with its rear wheels raised, front wheels must be placed on a towing dolly.

- d. Set ignition key to "GAR" and do not withdraw it from switch; otherwise antitheft device could become engaged.
- e. Release parking brake and set gearshaft lever to "neutral" before starting to tow the vehicle.
- f. Do not apply lateral forces to towing hook. Keep towing bar or similar devices always in line with the vehicle.
- g. Remember that when vehicle is being towed, there is no vacuum in servobrake; consequently, when braking, greater pressure must be applied onto brake pedal.

## SPECIAL SERVICE TOOLS

Special service tools play a very important role in a vehicle's maintenance since they are essential to ensure accurate, reliable and quick service. To this effect, it must be remembered that times taken relevant to the various maintenance operations are computed assuming that said special tools are being used. All special service tools, made

expressly on the manufacturer's design, needed for overhauling, maintenance and repair of models are listed and illustrated in this manual. The identification number is determined by the relevant ordering part number and consists of a letter followed by a five figure number according to the following schedule:

A.0.0000	Special Service Tool
C.0.0000	Tester
U.0.0000	Reamer

Order of the listed tools by the authorized workshop, must be performed according to the usual systems already followed by each Service - net.

## INSTRUCTIONS FOR PRE-DELIVERY INSPECTION AND PERIODICAL MAINTENANCE COUPONS

In this chapter are listed and described all pre-delivery and maintenance operations required by ALFA 33 models.

As far as technical specifications regarding each operation are concerned, refer to each section's relevant "Service Data and Specifications" chapter.

### PRE-DELIVERY

Pre-delivery inspection of a new vehicle, prior to customer delivery, consists in carrying out all checking operations and tests hereafter described in order to detect and thus eliminate any damage or malfunction.

It goes without saying, however, that when Dealer personnel picks-up the vehicle should perform a visual check in order to:

- make sure that vehicle is in normal driving condition, especially as regards level of fluids and controls in general
- detect any dents or scratches on body or other damage to the vehicle's interior (upholstery)
- make sure nothing is missing, especially factory supplied accessories, spare tire and any parts that are to be fitted on vehicle only prior to customer delivery.

If checking operations show that topping up -as foreseen by this text -

is required, proceed accordingly; such operation will be considered as part of pre-delivery inspection. In case damages or malfunctions other than those herein described are encountered, they will have to be taken care of repair or adjust according to current technical and administrative procedures. As each operation is being carried out, the relevant card must be filled out and then filed together with the sold vehicle's other documents; also the pre-delivery card included in the Instruction Book supplied to the customer must be duly filled out as demonstration of strictly execution of pre-delivery checks.

### CHECKING LEVEL

#### Coolant

- When engine is cold, check level in expansion reservoir. If required, top up to specified max. level.

#### Engine oil

- Check if level is up to MAX. mark on dipstick (carry out this operation after having parked the vehicle on an even surface and after the engine has been off for a few minutes). If required, top up with specified oil.

#### Gearbox and Differential oil

- Remove filler cap and check if

oil level reaches the filler lower edge. If required, top up with specified oil and fit cap back.

#### Brake and clutch fluid

- Check if level in the reservoir is up to max. mark. If required, top up with specified fluid remembering that tins must be sealed and opened only when ready to use..

Be sure to perform this operation with utmost care and cleanliness.

#### Battery electrolyte

- Check and make sure electrolyte covers the plate upper edge by 5 mm (0,2 in); contrarywise, top up with distilled water.

#### Windshield washer fluid

- Check if relevant reservoir is full; if required, top up with specified solution.

#### Tire pressure

- Check tire pressure and, if required, restore to specified values. Use higher p.s.i. for spare tire.

### FUNCTIONAL TESTS

#### Engine starting and idling

- Check if engine starts properly. When engine is warm, check specified idle-rpm.



## COMPLETE CAR

### Engine controls

- Check and make sure starter control knob works freely, without sticking; further check that when this knob is pushed in, respective device is not at all engaged on carburetor.
- Check accelerator pedal and make sure it does not stick; also check that when pedal is pushed down all the way, throttle valve is fully open.

### Brake, clutch and gearbox controls

- With engine running, push brake pedal and check if - after the initial stroke - it comes without elasticity. Also check if parking brake control lever works properly.
- With engine running, push clutch pedal down and make sure that all gearbox speeds engage easily, without sticking and noiselessly.

### Tightening wheel screws

- Use a spanner and check if wheel screws, are properly tightened. Also check if screws, are in compliance with vehicle and rim type, as shown in the Spare Parts Catalogue.

### Dashboard instruments

- While starting up the engine, check if all electrically controlled instruments work properly (needles are moving): rpm indicator, oil pressure gauge, water temperature gauge, fuel level indicator, and clock.

### System circuits tightness

- Visually check circuits of following systems for leaks or evidence thereof: fuel, brake, clutch, and engine cooling.
- Check engine, gearbox and differential for evidence of oil leaks.

### Engine cooling electric fan

- Connect and short-circuit wires of radiator thermal contact and check if fan starts and works properly. Also make sure that wires are properly and securely connected to thermal contact.

### Heating system

- Check proper working condition of levers controlling heater and outlets for admission of air into the vehicle (open and close).
- Check if electric fan works properly at different speeds and if relevant warning light on the board lights up.

### Lights, signal, electrical accessory equipment

- With ignition key set to "MAR" check if lights outside and inside the vehicle, as well as relevant warning lights, go on: front and rear parking lights, number plate lights, direction indicators and emergency flasher, stop lights, high and low beam headlights, headlights flasher, reverse gear lights, rear fog lights inside ceiling lamp (through manual as well as door switch), instrument cluster light.
- Check proper working condition of following warning lights: alternator, fuel reserve, oil pressure, brake fluid level, parking brake on, starter on, defroster on, cooling water temperature.
- Check proper operation of horns and cigarette lighter.

### Windshield and rear window wiper and washer

- After having installed wiper blades, check if windshield wiper works properly at both speeds as well as it is set to intermittent operation.
- Operate the windshield washer and check if sprayer jets are normal and properly directed toward the windshield's higher section.

### Locks, hinges, windows

- Check proper working condition of all door locks (close, lock, open from inside and outside). Check in the same manner also locks of engine and back door.
- Check door and bonnet hinges for smooth noiseless operation.
- Check if windows can be opened and closed all the way without sticking and noiselessly.

### Doors and bonnets

- Visually check all weatherstripping for tight fit and make sure they are not damaged, out of shape or dirty.
- See if doors and bonnets are aligned and centered with relevant openings.

### Seats, seat belt and accessory equipment

- After having removed relevant protecting covers, inspect seats checking if they slide freely on tracks without sticking and noiselessly. Also check proper working condition of seat and head-rest adjusting devices.
- Check if seat belts and relevant retractors are in good working condition.
- Check inside and outside rear-view mirrors making sure they swing easily and stay firmly in place when set; also check snap switch on mirror for day/night driving.
- Check maneuverability of sunvisors, ashtrays, glove compartment and any other accessory.

## CLEANING AND FINISHING INSPECTION

### Exterior cleaning

- If required, dewax the vehicle using suitable products and procedures; wash the vehicle's exterior with a solution of water and shampoo, rinse it thoroughly and dry it. Finish up cleaning by removing any stubborn spots by means of suitable compounds.

### Paint

- Visually and thoroughly check all painted surfaces and remove accidental or manufacturing flaws, if any.

### Exterior/Interior mouldings and fittings

- Visually check all vehicle's out-

side parts: bumpers, mouldings, grills, headlight rims, letters and emblems making sure they are securely fitted, and have no spots or dents.

Verify all upholsteries (roof, carpets, panels etc ..) removing possible stains or scratches.

Factory issued accessory equipment

- Check if following items are in their proper place in the vehicle: tool kit, spare tire, jack, Instruction Book and Service Book.

## MAINTENANCE

Maintenance operations consist in checking and restoring proper working condition of some parts of the vehicle which are most likely to become worn or out-of-adjustment as a consequence of the vehicle's normal use.

A list of various operations to be performed at different intervals, as shown in the chart that follows, is included in the coupons of the Service Book which accompanies each vehicle.

Coupons will have to be stamped by the Service Organisation Agency to show that specified maintenance operations have been carried out. Just as for pre-delivery inspection, should topping UP or change of fluids and lubricants - as described in the text - become necessary, they will be considered as part of maintenance operations. In case damages or malfunctions other than those listed are encountered, they will be taken care of repair of adjust according to current technical and administrative procedures.

# MAINTENANCE SCHEDULE

(Except Switzerland, Sweden, Australia)

No	OPERATION	A	Km/1000					Notes
			1)					
			20	40	60	80	100	
00-10	Test vehicle	X						
00-20	Check all bolts for tightness	X						
01-10	Change engine oil and oil filter; check lubrication system for leaks	X	X	X	X	X	X	(2)
01-20	Check valve clearance and adjust, if necessary	X	X	X	X	X	X	
01-40	Check tension and soundness alternator drive belt and adjust, if necessary	X	X	X	X	X	X	
01-50	Replace alternator drive belt				X			
01-60	Replace camshaft drive belts				X			
04-10	Check fuel system for leaks	X	X	X	X	X	X	
04-20	Replace air cleaner cartridge		X	X	X	X	X	(3)
04-30	Replace fuel filter	X		X		X		
04-40	Clean carburetor jets and PVC system flame trap	X	X	X	X	X	X	
04-50	Check idle-rpm and CO% adjust, if necessary	X	X	X	X	X	X	
04-60	Check accelerator cable adjust if necessary	X						
05-10	Check ignition timing adjust if necessary	X	X	X	X	X	X	
05-20	Replace spark plugs		X	X	X	X	X	(4)
07-10	Check coolant level; check cooling system for leaks	X	X	X	X	X	X	(5)
13-10	Change gearbox oil	X		X		X		
3-20	Check gearbox oil level		X		X		X	
17-10	Check drive shaft and steering box boots for cracks or wear	X	X	X	X	X	X	
21-10	Check front wheel toe-out; adjust if necessary	X						
22-10	Inspect brake system	X	X	X	X	X	X	
22-20	Check brake pads for wear; replace as required		X	X	X	X	X	(6)

COMPLETE CAR

(Except Switzerland, Sweden, Australia)

No.	OPERATION	A (1)	Km/1000					Notes (1)
			20	40	60	80	100	
22-21	Inspect rear brake drums, check shoe linings for wear and replace as required		X	X	X	X	X	(6)
22-30	Change brake and clutch fluid			X		X		(7)
22-40	Check level of fluid in both brake and clutch reservoirs	X	X		X		X	(8)
22-50	Check parking brake stroke; adjust as required	X	X	X	X	X	X	
28-10	Check tire pressure	X	X	X	X	X	X	(5)
40-10	Check battery electrolyte level and top up is necessary; also check terminals for proper tightness and lubrication	X	X			X	X	(5)
40-20	Check headlights aiming and adjust as required	X						
56-10	Lubricate door and bonnet hinges; adjust striker plates	X	X	X	X	X	X	

(1) A = 1300 ÷ 1700 km

(2) To be performed also at 10, 30, 50, 70, and 90 km/1000 and in any case once a year

Check oil level frequently when refuelling

(3) Check and clean cartridge at km intervals (mileage) stated in item (2) above and even more frequently if driving in very dusty areas

(4) Check spark plugs at km intervals (mileage) stated in item (2) above

(5) Check frequently when refuelling

(6) To be performed also at km intervals (mileage) stated in item (2) above and even more frequently when driving under particular stress conditions (sport driving) or on hilly roads

(7) To be performed in any case once a year

(8) To be performed also at km intervals (mileage) stated in item (2) above

# MAINTENANCE SCHEDULE

(Swiss version)

No.	OPERATION	A	K.m/1000						Notes (1)
			10	20	40	60	80	100	
00-10	Test vehicle	X							
01-05	Check all engine bolts for tightness	X							
01-10	Change engine oil and oil filter; check lubrication system for leaks	X	X	X	X	X	X	X	(2) E
01-20	Check valve clearance and adjust, if necessary	X	X	X	X	X	X	X	E
01-30	Clean the PCV system		X	X	X	X	X	X	E
01-40	Check tension and soundness of alternator drive belt and adjust, if necessary	X	X	X	X	X	X	X	
01-50	Replace alternator drive belt				X				
01-60	Replace camshaft drive belts				X				E
04-10	Check fuel system for leaks	X	X	X	X	X	X	X	E
04-20	Replace air cleaner cartridge		X	X	X	X	X	X	(3) E
04-40	Clean carburetor jets	X	X	X	X	X	X	X	E
04-50	Check idle-rpm fast idle and CO % adjust, if necessary	X	X	X	X	X	X	X	E
04-60	Check accelerator cable adjust if necessary	X	X	X	X	X	X	X	
04-75	Check air intake temperature control device		X	X	X	X	X	X	E
04-70	Check starter control functioning	X	X	X	X	X	X	X	E
05-10	Check Ignition timing	X	X	X	X	X	X	X	E
05-20	Replace spark plugs		X	X	X	X	X	X	(4) E
07-10	Check engine coolant level (to inspect for leaks). Possible topping up	X	X	X	X	X	X	X	(5) E
07-20	Change engine coolant and check cooling system for leaks			X				X	(6) E
13-10	Change gearbox - differential oil	X			X			X	
13-20	Check gearbox - differential oil level		X						
17-10	Check drive shaft and steering box boots for cracks or wear	X	X	X	X	X	X	X	X

COMPLETE CAR

(Swiss version)

No	OPERATION	A	Km/1000										Notes			
			10	20	30	40	50	60	70	80	90	100				
21-10	Check front wheel toe-out; adjust if necessary	X														
22-10	Inspect brake system	X			X					X					X	
22-20	Check front brake pads and rear drum friction gaskets possible replacement				X					X				X		(7)
22-25	Check brake booster vacuum hose for sound condition							X						X		E
22-30	Change brake fluid									X				X		(8)
22-40	Check level of fluid in both brake and clutch reservoirs	X			X					X				X		(9)
22-50	Check parking brake stroke; adjust as required				X					X				X		
28-10	Check tire pressure	X			X					X				X		(5)
40-10	Check battery electrolyte level and top up if necessary; also check terminals for proper tightness and lubrication	X														
40-20	Check headlights aiming and adjust as required	X														
50-10	Lubricate door and bonnet hinges; adjust striker plates	X								X				X		

- (1) A = 1300 ÷ 1700 Km
- (2) To be performed also at 30, 50, 70, 90, Km/1000 and in any case once a year.  
Check oil level frequently when refuelling.
- (3) Check and clean cartridge at Km intervals (mileage) stated in item (2) above and even more frequently if driving in very dusty areas
- (4) Check spark plugs at 10, 30, 50, 70, and 90 Km/1000
- (5) Check frequently when refuelling
- (6) Every two years whichever occurs first
- (7) To be performed at Km/1000: 10,30,50,70,90 and even more frequently when driving under particular stress conditions (sport driving) or on hilly roads.
- (8) Once a year whichever comes first
- (9) Also at Km/1000 : 10, 30, 50, 70, 90.
- E Operation relevant to emission control

# MAINTENANCE SCHEDULE

(Sweden version)

No.	OPERATION	A	Km/1000					Notes (1)
			20	40	60	80	100	
00-10	Treat vehicles	X						
00-20	Check all bolts for tightness	X						
01-10	Change engine oil and oil filter; check lubrication system for leaks	X	X	X	X	X	X	(2)
01-20	Check valve clearance and adjust, if necessary	X	X	X	X	X	X	
01-30	Clean the PCV system		X	X	X	X	X	
01-40	Check tension and soundness of air pump and alternator drive belt and adjust, if necessary	X	X	X	X	X	X	
01-50	Replace air pump and alternator drive belt			X				
01-60	Replace camshaft drive belts			X				
04-10	Check fuel system for leaks	X	X	X	X	X	X	
04-20	Replace air cleaner cartridge and air pump cleaner		X	X	X	X	X	(3)
04-30	Replace fuel filter	X	X	X	X	X	X	
04-40	Clean carburetor jets	X	X	X	X	X	X	
04-50	Check idle-rpm fast idle and CO% adjust, if necessary	X	X	X	X	X	X	
04-60	Check accelerator cable adjust if necessary	X	X	X	X	X	X	
04-70	Check automatic starting device; adjust if necessary	X	X	X	X	X	X	
04-75	Check air intake temperature control device		X	X	X	X	X	
05-10	Check ignition timing adjust if necessary	X	X	X	X	X	X	
05-20	Replace spark plugs		X	X	X	X	X	(4)
07-10	Check engine coolant level; (to inspect for leaks)	X	X	X	X	X	X	(5)
07-00	Change engine coolant and check cooling system for leaks		X			X		(6)
13-10	Change gearbox oil	X	X	X	X	X	X	
3-20	Check gearbox oil level		X		X		X	

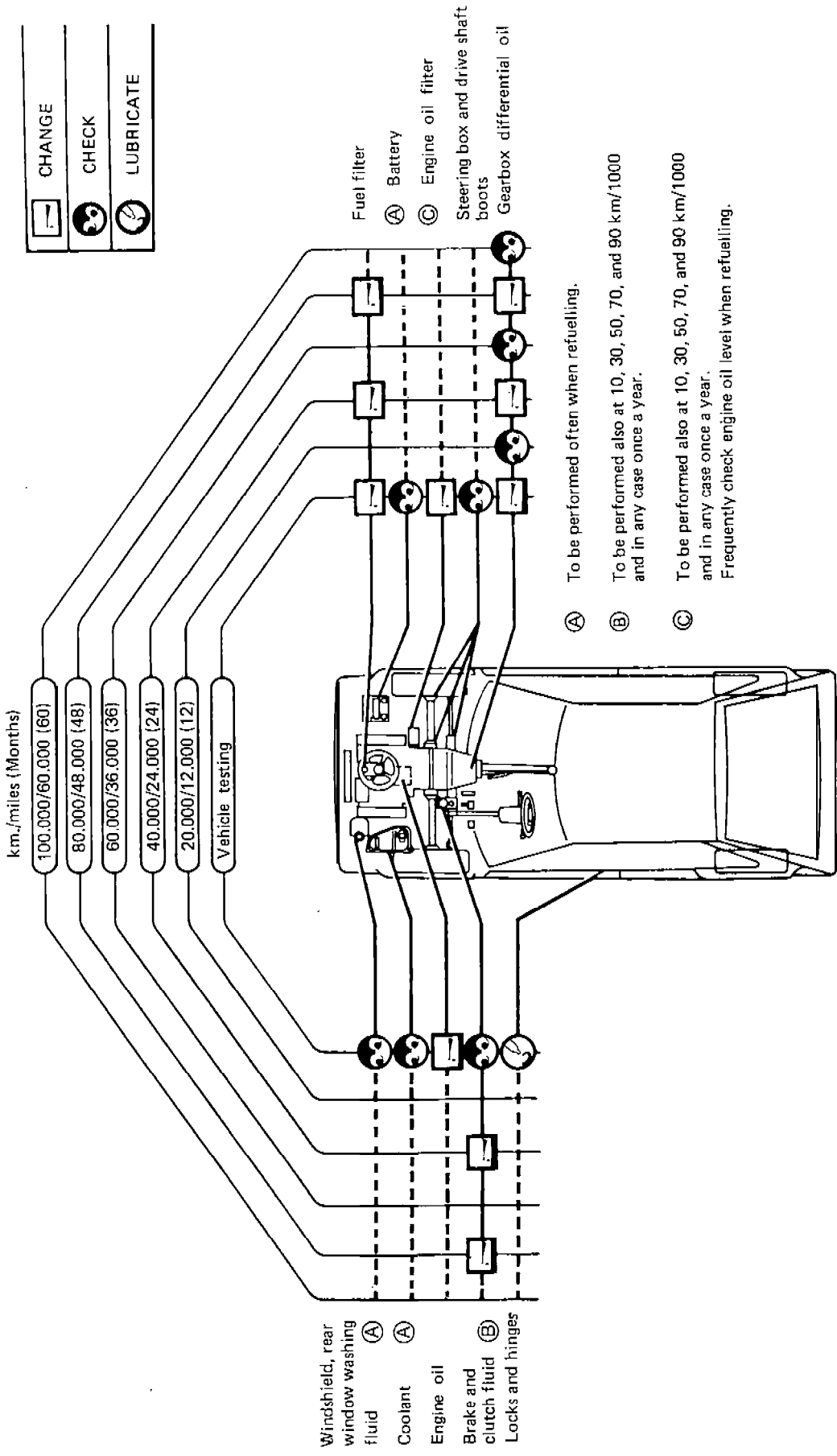
# MAINTENANCE SCHEDULE

(Australia version)

No.	OPERATION	A	Km/1000												
			10	20	30	40	50	60	70	80	90	100			
1	Change engine oil and filter	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
2	Check battery and top up electrolyte level, if necessary, check terminals for proper tightness and lubrication	△	△	△	△	△	△	△	△	△	△	△	△	△	△
3	Check drive shaft and steering box boots for cracks or wear	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	Check tire pressure	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	Check engine coolant circuit level; possible topping up	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	Check front brake pads and rear drum friction discs; possible replacement	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	Check level of fluid in both brake and clutch reservoirs	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	Check level of gearbox-differential	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	Check oil system fuel system and cooling circuit for leaks; check vacuum hoses and connections for soundness	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10	Check valve clearance and adjust, if necessary	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11	Check tension and soundness of air pump and alternator drive belt and adjust if necessary	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12	Check ignition timing adjust if necessary	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13	Check air intake temperature control device	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14	Check idle-rpm, fast idle and CO % adjust if necessary	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15	Clean the PCV system	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16	Replace fuel filter	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17	Check camshaft driving belt for soundness and tension; adjust if necessary	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18	Check door and lid hinges and locks for operation and lubrication	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19	Inspect brake hydraulic system	X	X	X	X	X	X	X	X	X	X	X	X	X	X



# FLUIDS AND LUBRICANTS CHART



# RECOMMENDED FUEL AND -LUBRICANTS

## FUEL

To ensure proper engine operation, use petrol with a  $\geq 98$  Octane Rating (R.M.) and a  $\leq 11$  sensitivity (1).

(1) Difference between Research Method Octane Rating and Motor Method Octane Rating.

COMPLETE CAR

FLUIDS AND LUBRICANTS

Type	Application	Denomination			Notes
		AGIP *	IP *	Other *	
OIL	Engine - 01	SAE SE ASTM SE API SE	Sint 2000 SAE 10W/50	Super Motor Oil SAE 10W/50	Environmental temperature - 18° ÷ 40°C (0 ÷ 104°F)
	Gearbox - Differential - 13	SAE J 306 a API GL-S	F 1 Rotra MP SAE 80W/90	Pontiax HD SAE 80W/90	Environmental temperature - 30° ÷ 40°C (- 22° ÷ 104°F)
	Front suspension - 21	SAE J 306 a API GL-S	F 1 Rotra MP SAE 80W/90	Pontiax HD SAE 80W/90	Environmental temperature - 30° ÷ 40°C (- 22° ÷ 104°F)
	Rear suspension - 25	SAE J 306 a API GL-S	F 1 Rotra MP SAE 80W/90	Pontiax HD SAE 80W/90	Environmental temperature - 30° ÷ 40°C (- 22° ÷ 104°F)
	Engine fuel system - 04	N.L.G.I. n. 1	F 1 Grease 15		Basic substance: Al - Ca
GREASE	Engine ignition 05				ISECO: Molykote A
	Clutch - 12	N.L.G.I. n. 3	F 1 Grease 33 FD	Autogrease FD	Basic substance: Bentonite Polythene
		N.L.G.I. n. 1	F 1 Grease 15		Basic substance: Al-Ca
					ISECO: Molykote BR2 ISECO: Molykote Paste G
	Gearbox - Differential - 13	N.L.G.I. n. 3	F 1 Grease 33 FD		
N.L.G.I. n. 1		F 1 Grease 15			Basic substance Ba - Na
N.L.G.I. n. 2					ISECO: Ergon Rubber Grease n. 3 SPCA: Spagraph MILLOIL: Lubricant for elastomer seals UNION CARBIDE CHEMI- CAL COMPANY: Ucon lubricant 50 HB 5100

Type	Application	Classification	Denomination		Notes
			AGIP *	P *	
GREASE	Differential - 17				Basic substance: Li
	Front suspension - 21	N.L.G.I. n. 3	F 1 Grease 33 FD	Autogrease FD	ISECO: Molykote VN2461/C OPTIMOL: Olijstamoly 2 LN 584
					UNION CARBIDE CHEMICALS COMPANY: Ucon lubricant 50 HB 5100 MILLOIL: Lubricant for elastomer seals
	Front and Rear Brakes - 22	N.L.G.I. n. 1	F 1 Grease 15		Basic substance: Al - Ca
					ATE Bremszylinder Paste DBA
	Steering System - 23	N.L.G.I. n. 3	F 1 Grease 33 FD	Autogrease FD	
					UNION CARBIDE CHEMICALS COMPANY: Ucon lubricant 50 HB 5100 MILLOIL: Lubricant for elastomer seals
	Rear suspension - 25	N.L.G.I. n. 3	F 1 Grease 33 FD	Autogrease FD	Basic substance: Bentonite Polythene
					Basic substance: Al - Ca
	Wheels and Tires - 28	N.L.G.I. n. 1	F 1 Grease 15		
					UNION CARBIDE CHEMICALS COMPANY: Ucon lubricant 50 HB - 5100 MILLOIL: Lubricant for elastomer seals