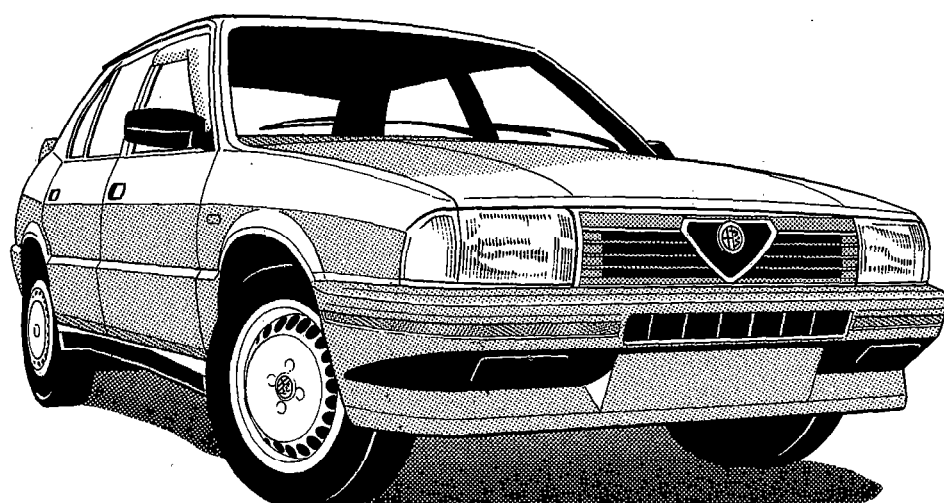


WORKSHOP MANUAL

Alfa 33 MANUAL SUPPLEMENT

models

33

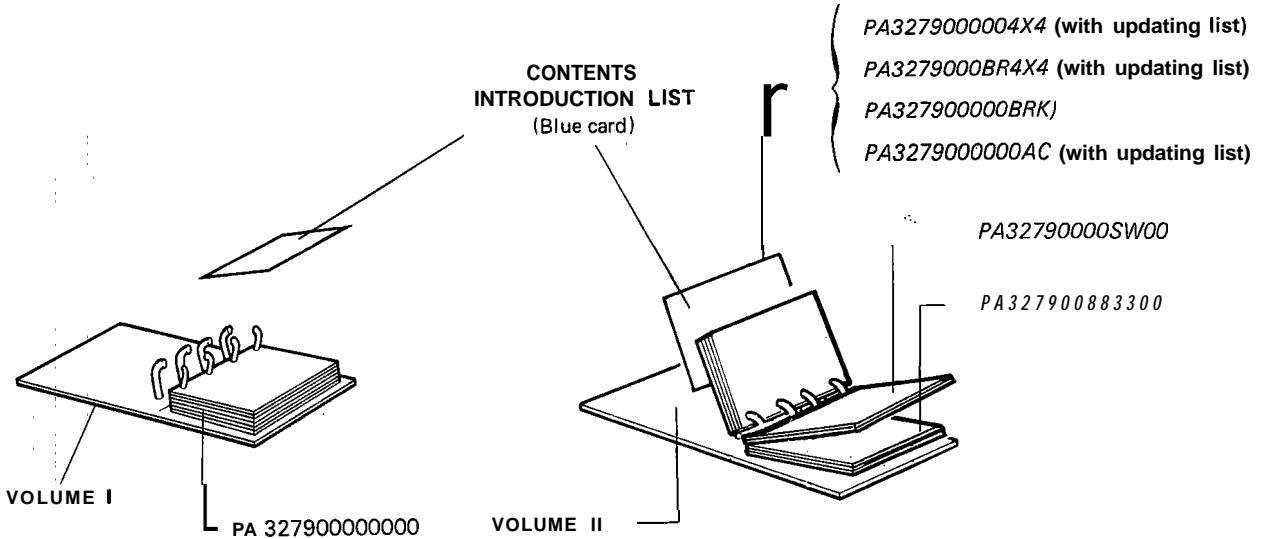


ASSISTENZA TECNICA *Alfa Romeo* 

Instructions for the insertion of the technical data in the binders



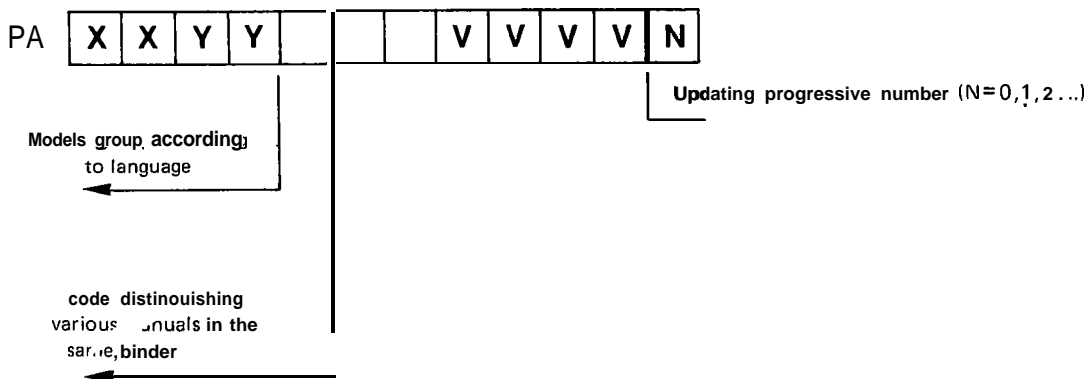
When inserting the updating pages in the **Alfa 33** VOLUME II binder, it is advisable to proceed as shown in the diagram below and to follow the order indicated.



Detailed contents:

- PA3279000004X4 "Workshop Manual **Alfa 33** 4 x 4"
- PA3279000BR4X4 "Workshop Manual **Alfa 33** 4 x 4 giardinetta"
- PA327900000BRK "Workshop Manual **Alfa 33** giardinetta"
- PA3279000000AC "*installation Instructions **Alfa 33** r conditioner"
- PA32790000TD00 "Workshop Manual **33** 1.8 TD"
- PA327900003300 "Workshop Manual- models **33**"
- PA327900000SW00 "Workshop Manual models **Sport Wagon**"
- PA327900883300 "Workshop Manual models **33**"

NOTE: For correct interpretation of the issue number, refer to the following code figures:



FOREWORD

This manual is intended for models **33 1.3** **33 1.3 s** **33 1.5 TI** **33 1.7 IE** **33 1.7 ***

33 1.8 TD **33 1.5 4x4** It complements the manuals referring to the corresponding (Alfa) models indicated here below:

| | | | |
|-----------------|---------------------------|---------------------------|---------------|
| PA32 790000000 | "WORKSHOP MANUAL | Alfa 33 | " |
| PA3279000004x4 | "WORKSHOP MANUAL | Alfa 33 4x4 | " |
| PA3279000B R4x4 | "WORKSHOP MANUAL | Alfa 33 4x4 | "giardinetta" |
| PA327900000B RK | "WORKSHOP MANUAL | Alfa 33 | "giardinetta" |
| PA327900000TD00 | "WORKSHOP MANUAL | 33 1.8 TD | |
| PA32 7900003300 | "WORKSHOP MANUAL - models | 33 | |

Key to symbols:

Alfa 33 ← means that the corresponding Group in the basic manual **Alfa 33** should be referred to, for all details not dealt with specifically in this manual.

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| | FUEL SYSTEM | GR. 04 |
| | IGNITION, STARTING, CHARGING SYSTEM | GR. 05 |
| | ENGINE COOLING SYSTEM | GR. 07 |
| ← Alfa 33 | CLUTCH | GR. 12 |
| | GEARBOX | GR. 13 |
| ← Alfa 33 | MOTION TRANSMISSION | GR. 15 |
| | DIFFERENTIAL AND DRIVE SHAFT ASSEMBLY | GR. 17 |
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GROUP 00

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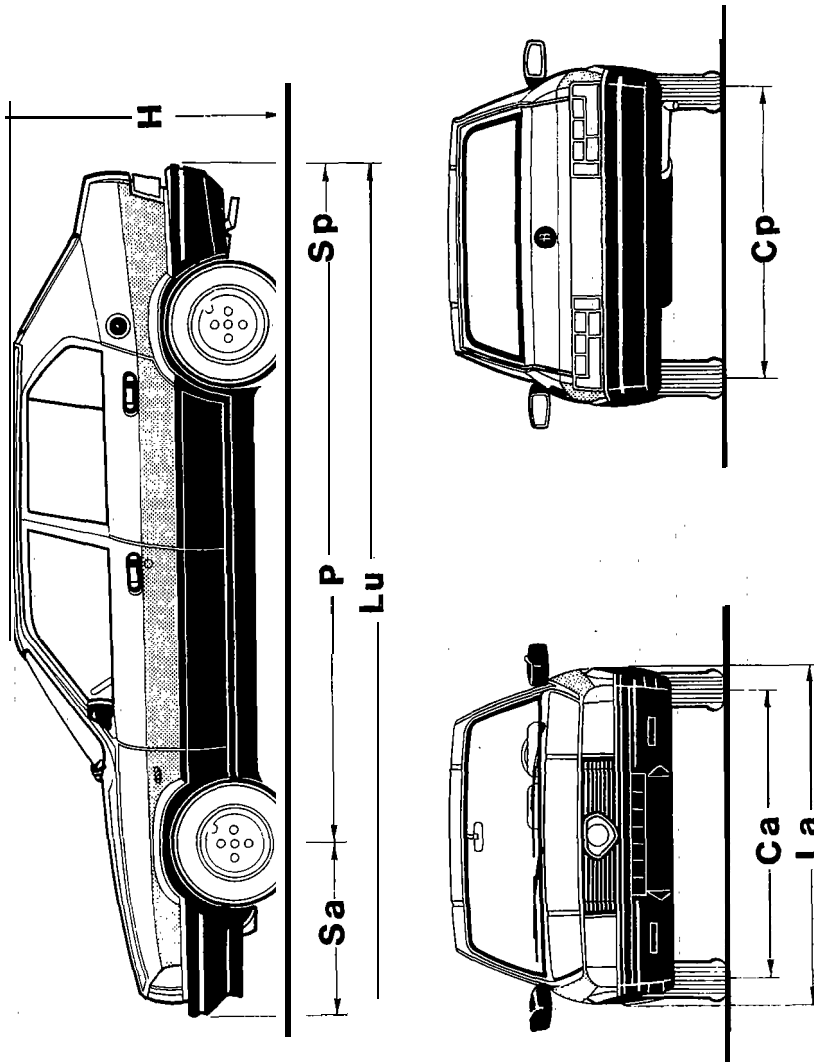
| | | | |
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00

(*) See: "REPAIR MANUAL **Alfa 33**" VOLUMES I and II - Group 00

Alfa 33

GENERAL VIEW



DIMENSIONS AND WEIGHTS

| Model | ENGINES WITH ONE CARBURETOR | | ENGINES WITH TWO CARBURETORS | | | | ENGINES WITH ELECTRONIC FUEL INJECTION | | ENGINES WITH TURBO COMPRESSOR |
|-------------------------------------|-----------------------------|----------------------|------------------------------|--------------------------------|--------------|--------------------------------|--|----------|-------------------------------|
| | 33 * | 33 1.3 | 33 1.3 s | 33 1.5 TI | 33 1.5 a x a | 33 1.7 * | 33 1.7 IE | 33 1.7 * | 33 1.5 TO |
| Identification number | 908.260 | 908.060 908.061 A | 908.080 | 908.100 908.110 908.101▲ | 908.220 | 908.160 908.170 908.161▲ | 908.140 908.200△ 908.150△ | 908.180△ | 908.120 |
| Wheelbase P (mm) | 2470 | 2465 | | | | | | | 2455 |
| Track | Front Ca (mm) | 1366 | 1367 | 1362 | 1367 | 1364 | 1367 | 1364 | 1397 |
| | Rear cp (mm) | 1362 | 1364 | 1375 | | | | | 1364 |
| Overall length Lu (mm) | 4015 | | | | | | | | 4040 |
| Overhang | Front Sa (mm) | 800 | 790 | | | | 825 | | |
| | Rear SP (mm) | 760 | 760 | | | | 760 | | |
| Overall width La (mm) | 1612 | | | | | | | | |
| Height (unladen) H (mm) | 1340 | | | 1345 | 1370 | 1345 | | | |
| Min. steering radius (mm) | 5500 | | | | | | | 5350 | |
| Kerb weight (kg) | 910 | | | | 970 | 930 | | 1010 | |
| Max. allowed gross weight (kg) | 1335 | | | | 1395 | 1355 | | 1435 | |
| Payload (kg) | 3 5 5 | | | | | | | | |
| Max. allowed axle gross weight (kg) | Front | 800 | | | 800 | | | | |
| | Rear | 800 | | | 900 | | | | |
| Max. towing gross weight (kg) | 1000 | | | | 1100 | 1000 | | 1100 | |
| Seating capacity | Front | 2 | | | | | | | |
| | Rear | 3 | | | | | | | |

(A) With ecological materials for countries where antipollution regulations are in force

(*) With 1.2 engine not marketed in all countries

[A] With ecological materials.

MODEL VARIATION

| | | ENGINES WITH ONE CARBURETOR | | | | ENGINES WITH TWO CARBURETORS | | | | | | |
|--------------------|-------------------------|---|--------------------------|--------|--------------------------|------------------------------|--------------------------|-----------------|--------------------------|------------|----------|----------|
| Modal | | 33 * | | 33 1.3 | | 33 1.3 S | | 33 1.5 TI | | 33 1.5 axa | | |
| Body | | 5 door saloon | | | | | | | | | | |
| Drive | | L | R | L | R | L | R | L | R | L | R | |
| Identification NO. | Label type and location | - on certification label and - on identification label | 908.260 | - | 908.060 908.061▲ | - | 908.080 | - | 908.100 908.101▲ | 908.110 | 908.220 | - |
| | | on identification label | 905AB | | 905A1G | | 905A1H | | 905A2V | | 905A2T | |
| Chassis No. | Label type and location | - on intermediate bulkhead label | 905A00 | | 905A10 | | | | 905A20 | | | |
| | | - on intermediate bulkhead label | - | - | ▲ | - | 05410589 | - | ▲ | 05414309 | 05411133 | 05414275 |
| Engine No. | Type and serial NO. | - on cylinder block label | 30585 from 0000001 | | 30586 from 0000001 | | 30587 from 0000001 | | 30588 from 0000001 | | | |
| Tire dimensions | | 165/70 SR 13 | | | | | | 175/70 RI 3 82T | | | | |
| Rim dimensions | | 5½ J x 13" | | | | | | | | | | |

(A) With ecological materials
 (*) With 1.2 engine not marked in all countries

MODEL VARIATION

| Model | | Sport Wagon | | | | | | | |
|--------------------|---|-----------------------------------|----------|--------------------|---|--------------------|----------|------------------|---|
| Versions | | 33 1.3 S | | | | 33 1.5 4x4 | | | |
| Body | | 5 DOOR STATION WAGON | | | | | | | |
| Drive | | L | R | L | R | L | R | L | R |
| Identification No. | -- on certification label -- on identification label | 906.600 | - | 908.600 | - | 908.800 | - | 908.800 | - |
| | | | | | | 908.801 ▲ | | 908.801 ▲ | |
| Chassis No. | -- on identification label -- on intermediate bulkhead label | 905A1D | | 905A1F | | 905A2S | | 905A2U | |
| | | 905A10 | | 905A10 | | 905A20 | | 905A20 | |
| | | -- on intermediate bulkhead label | 05379411 | - | - | - | 05407366 | - | - |
| ▲ | ▲ | | | | | | | | |
| Engine No. | Type and serial No. | 30168 from 0000001 | | 30587 from 0000001 | | 30508 from 0000001 | | 30588 da 0000001 | |
| Tyres dimensions | | 165/70XR13 | | | | 175/70R1382T | | | |
| Rim dimensions | | 5½Jx13 | | | | 5½Jx13 | | | |

(A) with ecological material

PA33350000SW01

00-3

MAY 1988

MODEL VARIATION

| Model | | Sport Wagon | | | | | | | | |
|--------------------|-------------------------|----------------------------------|--------------------|------------|--------------------|--------------|--------------------|--------------|--------------------|---|
| Versions | | 33 1.3 S | | 33 1.7 B Δ | | 33 1.7 4x4 Δ | | 33 1.8 TD | | |
| Body | | 5 DOOR STATION WAGON | | | | | | | | |
| Drive | | L | R | L | R | L | R | L | R | |
| Identification No. | Label type and location | - on certification label | 908.640 | 908.650 | 908.660 | - | 908.820 | - | 908.620 | - |
| | | - on identification label | 908.641▲ | | | | | | | |
| Chassis No. | Label type and location | - on identification label | 905A30 | | 905A3F | | 905A3G | | 905A4A | |
| | | - on intermediate bulkhead label | 905A30 | | 905A30 | | 905A30 | | 905A40 | |
| Serial No. | Label type and location | - on intermediate bulkhead label | 05381288 | - | 65407756 | - | 05408476 | - | 05381261 | - |
| | | | ▲ | | | | | | | |
| Engine No. | Type and'serial No. | - on cylinder block label | 30550 from 0000001 | | 30558 from 0000001 | | 30558 from 0000001 | | VM82A from 0000001 | |
| Tyre dimensions | | 185/60R1482H | | | | | | 175/70R1382T | | |
| Rim dimensions | | 5½Jx14 | | | | | | 5½Jx13 | | |

(A) With ecological material and electronic injection engine for countries where antipollution regulations are in force

(A) With ecological material

APPROXIMATE REFILL CAPACITIES

| Model | | Sport Wagon 33 1.3 S | | Sport Wagon 33 1.7 B | | Sport Wagon 33 1.6 4x4 33 1.7 4x4 | | Sport Wagon 33 1.8 TD | |
|--|--------------------|-------------------------|--------------|-------------------------|--------------|---|--------------|--------------------------|--------------|
| | | Kg (lb) | l (imp. gal) | Kg (lb) | l (imp. gal) | Kg (lb) | l (imp. gal) | Kg (lb) | l (imp. gal) |
| Component | | Measurement unit | | | | | | | |
| FUEL TANK | | - | 50 (11) | - | 50 (11) | - | 53 (11.66) | - | 50 (11) |
| FUEL RESERVE | | | 6.5 (1.43) | - | 6.5 (1.43) | - | 6.5 (1.43) | - | 6.5 (1.43) |
| ENGINE OIL SUMP | With filter (*) | 3.6 (7.94) | 4 (0.88) | 3.6 (7.94) | 4 (0.88) | 3.6 (7.94) | 4 (0.88) | 4.57 (10.07) | 5.25 (1.15) |
| | Without filter (*) | 3.15 (6.94) | 3.5 (0.77) | 3.15 (6.94) | 3.5 (0.77) | 3.15 (6.94) | 3.5 (0.77) | 4.35 (9.59) | 5 (1.10) |
| GEARBOX - DIFFERENTIAL OIL | | 2.4 (5.29) | 2.6 (0.57) | 2.4 (5.29) | 2.6 (0.57) | 2.4 (5.29) | 2.6 (0.57) | 2.4 (5.29) | 2.6 (0.57) |
| REAR DIFFERENTIAL OIL | | | - | - | - | 0.9 (1.98) | 1 (0.22) | - | |
| ENGINE COOLING SYSTEM | | - | 7.3 (1.61) | - | 7.3 (1.61) | - | 7.3 (1.61) | - | 8 |
| CONCENTRATE ANTIFREEZE → | | - | 2.2 (0.48) | - | 2.2 (0.48) | - | 2.2 (0.48) | - | 2 (0.44) |
| QUANTITY DEPENDING ON → | | - | 2,6 (0.57) | - | 2,6 (0.57) | - | 2,6 (0.57) | - | 2,64 (0.58) |
| TEMPERATURE 3 | | - | 3.65 (0.80) | - | 3.65 (0.80) | - | 3.65 (0.80) | - | 4 (0.88) |
| ANTIFREEZE QUANTITY READY → FOR USE | | - | 7.3 (1.61) | - | 7.3 (1.61) | - | 7.3 (1.61) | - | 8 (1.76) |

(*) The indicated quantity refers to periodical changes.

COMPLETE CAR

CHASSIS AND BODY MAINTENANCE

TECHNICAL DATA - INSPECTION AND ADJUSTMENT

Axles and suspensions

| Model | Sport Wagon | Sport Wagon | Sport Wagon | Sport Wagon |
|--|---|---|--|-------------------------------------|
| 33 1.3 S | 33 1.7 S | 33 1.5 4x4 33 1.7 4x4 | 33 1.8 TD | |
| Features | | | | |
| Vehicle static loading arrangement (1) | $2 + 3 = 490 + 245 = 735 \text{ N}$ $(50 + 25 = 75 \text{ kg})$ $C = 490 (50); (110)$ | | | |
| Front wheel alignment | $A = -12_{-5}^{+10}$ $B = 27_{-5}^{+10}$ | $A = 3_{-5}^{+10}$ $B = 53_{-5}^{+10}$ | $A = -2_{-5}^{+10}$ $B = 33_{-5}^{+10}$ | $M - H = 2 \pm 2 (0.157 \pm 0.157)$ |
| Rear wheel alignment | $M - H = 4 \pm 5 (0.57 \pm 0.079)$ | | | |
| Front toe-out (2) (3) | $\alpha = 0'$ | | | |
| Front toe-out angle | $\alpha = 10'$ | | | |
| Wheel rim diameter | 340 (13.38) | 365 (14.37) (4) | 340 (13.38) 365 (14.37) (4) | |
| Rear wheel toe-in | $\alpha = 0 \pm 10'$ | | | |
| Front wheel camber (3) | $\beta = -1' \pm 30'$ | | | |
| Rear wheel camber (3) | $\beta = 0^\circ \pm 25'$ | | | |
| Front wheel caster (3) | $\gamma = 2^\circ \pm 30'$ | | | |
| Steering lock (3) | $\delta_1 = 27^\circ 50'$ | | | |
| | $\delta_2 = 33^\circ 45'$ | | | |
| | $\delta_3 = 35^\circ 10'$ | | | |

(1) Load vehicle, move it up and down on suspensions a few times. Checking operations must be performed with vehicle fully set up for driving

(2) When turning a steering side rod joint 360°, M - H dimension changes by 2 mm (0.079 in).

(3) These values are referred to a vehicle in nominal driving condition, i.e. with static load.

(4) With rim 5½ Jx14".

MODEL VARIATION

| | | ENGINES WITH TWO CARBURETORS | | ENGINES WITH ELECTRONIC FUEL INJECTION | | | | ENGINE WITH TURBO COMPRESSOR | |
|--------------------|---|------------------------------|---------|--|----------|---------------------------|---|------------------------------|---|
| Model | | 33 1.7 * | | 33 1.7 IE | | 33 1.7 * | | 33 1.8 T0 | |
| Body | | 5 door saloon | | | | | | | |
| Drive | | L | R | L | R | L | R | L | R |
| Identification NO. | - on certification label and - on identification label | 908.160 | 908.170 | 908.140 | 908.150. | 905.180. | | 908.120 | — |
| | | 908.161▲ | | 908.200▲ | | | | | |
| Chassis No. | - on identification label | 905A3 | | 905A3D | | | | 905A4 | |
| | - on intermediate bulkhead label | 905A30 | | | | | | 905A40 | |
| | - on intermediate bulkhead label | 05411704 A | — | 05410692 A | — | — | — | 05411250 | — |
| Engine No. | Type and serial NO. | 30550 from 0000001 | | 305.58 from 0000001* | | 305.58 from A000001 | | VM82A from 00001 | |
| Tire dimensions | | 185/60 R1482H | | 185/60 R1482H | | | | 175/70 RI 382T | |
| Ftirn dimensions | | 5½ J x 14" | | | | | | 5½ J x 13" | |

(A) With ecological materials

(*) Not including numbers 908.200
908.150 that take the serial number A000001, as with number 908.180

| N. | OPERATION | A (1) | Km/1000 | | | | | | | | | | | | | | | | | | Notes | |
|----|---|----------|---------|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| | | | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | | 190 |
| 19 | Check tension of and if necessary replace drive belts of: alternator, coolant pump and air conditioner compressor (if fitted) | X | | X | | | | | X | | | | X | | | X | | | | X | | |
| 20 | Replace drive belt of alternator and air conditioner compressor (if fitted) | | | | | X | | | | X | | | X | | | | | X | | | | X |
| 21 | Replace camshaft drive belts | | | | | | | X | | | | | X | | | | | | | X | | |
| 22 | Check fuel system for leaks | X | | X | | X | | | X | | X | | X | | X | | X | | X | | X | |
| 23 | Clean and check air filter element | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | (3) |
| 24 | Check tightness of air intake system downstream from the air flow gauge (petrol Injection only) | | | X | | X | | | X | | X | | X | | X | | X | | X | | X | |
| 25 | Replace fuel filter (where necessary) | | | | | X | | | | X | | | X | | | | X | | | | X | |
| 26 | Replace air filter cartridge | | | X | | X | | | X | | X | | X | | X | | X | | X | | X | |
| 27 | Clean carburetor jets and crankcase ventilation system backfire shield | | | X | | X | | | X | | X | | X | | X | | X | | X | | X | |
| 28 | Check exhaust emissions | X | | X | | X | | | X | | X | | X | | X | | X | | X | | X | |
| 29 | Check and if necessary adjust ignition timing | | | X | | X | | | X | | X | | X | | X | | X | | X | | X | |
| 30 | Inspect and clean spark plugs | | X | | X | | X | | | X | | X | | X | | X | | X | | X | | |
| 31 | Replace spark plugs | | | X | | X | | | X | | X | | X | | X | | X | | X | | X | |
| 32 | Check battery electrolyte level, top up, tighten and grease terminals | | | X | | X | | | X | | X | | X | | X | | X | | X | | X | (4) |
| 33 | Lubricate door and hood/backdoor hinges. Adjust strikers, as necessary. Greasing of hood and backdoor catches | | | X | | X | | | X | | X | | X | | X | | X | | X | | X | |
| 34 | Check underbody and body work | | | X | | X | | | X | | X | | X | | X | | X | | X | | X | |
| 35 | Test vehicle | X | | X | | X | | | X | | X | | X | | X | | X | | X | | X | |

(1) A = 1500 ÷ 2500 Km (621 ÷ 932 mi)

(2) To be performed in any case every 6 months. Check oil level frequently when refuelling

(3) Check more frequently if driving in very dusty areas

(4) Check frequently when refuelling

(5) To be performed more frequently when driving under particular stress conditions (sport driving) or on hilly roads

(6) To be performed in any case every 12 months

MAINTENANCE SCHEDULE

The following schedule is not valid for the Italian market and for countries where antipollution regulations are in force

| N. | A | Km/1000 | | | | | | | | | | | | | Notes | | | | | | | | |
|----|----|---------|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | | 140 | 150 | 160 | 170 | 180 | 190 | 200 | |
| 1 | 1) | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | (2) |
| 2 | X | | | | X | | | X | | | | | | | | | | | | | | X | |
| 3 | | | X | | | | X | | | | | | | | | | | | | | | | |
| 4 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | (4) |
| 5 | X | X | X | | X | | | | X | | | | | | | | | | | | | | |
| 6 | | | | X | | | | | | | | | | | | | | | | | | | (6) |
| 7 | X | X | X | | X | | | | X | | | | | | | | | | | | | | (4) |
| 8 | | | | X | | | | | | | | | | | | | | | | | | | |
| 9 | X | | | | | | | | | | | | | | | | | | | | | | |
| 10 | X | X | X | | X | | | | | | | | | | | | | | | | | | |
| 11 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| 12 | X | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| 14 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | (5) |
| 15 | X | X | X | | X | | | | | | | | | | | | | | | | | | |
| 16 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | (4) |
| 17 | X | | | | | | | | | | | | | | | | | | | | | | |
| 18 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |

| N. | OPERATION | A (1) | Km/1000 | | | | | | | | | | | | | | | | | | Notes | | |
|----|---|----------|---------|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|
| | | | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | | 190 | 200 |
| 19 | Check tension of and if necessary replace drive belts of; alternator. coolant pump and air conditioner compressor (if fitted) | X | | X | | | X | | | | X | | | | X | | | | X | | | | |
| 20 | Replace drive belt of alternator and air conditioner compressor (if fitted) | | | | | X | | | | X | | | X | | | | X | | | | | X | |
| 21 | Replace camshaft drive belts | | | | | | X | | | | | X | | | | | | | X | | | | |
| 22 | Check fuel system for leaks | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | |
| 23 | Clean and check air filter element | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | (3) |
| 24 | Check tightness of air intake system downstream from the air flow gauge (petrol injection only) | | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | |
| 25 | Replace fuel filter (where necessary) | | | | X | | | | X | | | | X | | | | X | | | | | X | |
| 26 | Replace air filter cartridge | | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | |
| 27 | Clean carburetor jets and crankcase ventilation system backfire shield | | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | |
| 28 | Check exhaust emissions | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | |
| 29 | Check and if necessary adjust ignition timing | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | |
| 30 | Inspect and clean spark plugs | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | |
| 31 | Replace spark plugs | | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | |
| 32 | Check battery electrolyte level, top up, tighten and grease terminals | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | (4) |
| 33 | Lubricate door and hood/backdoor hinges. Adjust strikers, as necessary. Greasing of hood and backdoor catches | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | |
| 34 | Check underbody and body work | | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | |
| 35 | Test vehicle | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | |

(1) A = 1000 ÷ 1500 km (621 ÷ 932 mi)

(2) To be performed in any case every 6 months. Check oil level frequently when refuelling

(3) Check more frequently if driving in very dusty areas

(4) Check frequently when refuelling

(5) To be performed more frequently when driving under particular stress conditions (sport driving) or on hilly roads

(6) To be performed in any case every 12 months

MAINTENANCE SCHEDULE

The following schedule is valid only for those countries where antipollution regulations are in force

| N. | OPERATION | A (1) | Km/1000 | | | | | | | | | | | | | | | | Notes | | | | | |
|----|---|----------|---------|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----------|
| | | | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | | 170 | 180 | 190 | 200 | |
| 1 | Replace engine oil and oil filter; check oil system for leaks | X | X | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | (2) (7) E |
| 2 | Replace gearbox and differential oil | X | | | X | | | | | | | | | | | | | | | | | | | |
| 3 | Check gearbox and differential oil level | | X | | | | | | | | | | | | | | | | | | | | | |
| 4 | Check and top up the fluid level of windscreen, and rear window wash. Check correct operation of the system | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | (4) |
| 5 | Check brake fluid and clutch fluid level | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| 6 | Replace brake and clutch fluid | | | | X | | | | X | | | | | | | | | | | | | | | (7) |
| 7 | Check and top up the cooling system and verify system tightness | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | (4) E |
| 8 | Replace cooling fluid and check cooling circuit for leaks | | | | X | | | | X | | | | | | | | | | | | | | | (5) E |
| 9 | Check all bolts for tightness | X | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Check front wheel toe-out and adjust, if necessary | X | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Check condition of protective boots of constant velocity joints and steering box | X | X | | X | | | | X | | | | | | | | | | | | | | | |
| 12 | Inspect | X | X | | X | | | | X | X | | | | | | | | | | | | | | |
| 13 | Check of pads wear degree and rear drums friction gaskets. Replace if necessary | | X | | X | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | (6) |
| 14 | Check and if necessary adjust handbrake travel | X | X | | X | | | | X | | | | | | | | | | | | | | | |
| 15 | Check tire pressure | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | (4) |
| 16 | Check accelerator cable adjust if necessary | X | | | | | | | | | | | | | | | | | | | | | | |
| 17 | Check integrity and if necessary adjust alternator control and conditioner compressor (if mounted belts). | X | X | | | | | | | | | | | | | | | | | | | | | E |

COMPLETE CAR

| N. | OPERATION | A (1) | Km/1000 | | | | | | | | | | | | | | | | Notes | | | | |
|----|---|----------|---------|---|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-------|
| | | | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | | 170 | 180 | 190 | 200 |
| | | | 18 | Check valve timing and timing belt tensions | X | X | | X | | | | | | | | | | | | | X | | |
| 19 | Replace alternator control and conditioner compressor (if mounted) belts | | | | X | | | | | | | X | | | | | X | | | | | X | E |
| 20 | Replace timing control belts | | | | | X | | | | | | X | | | | | | X | | | | | |
| 21 | Check tightness of fuel supply system. Check evaporation system | X | X | | X | | | | | X | | X | | | | | X | | | | | X | E |
| 22 | Check and clean air filter element | | X | | X | | | | | X | | | | | | X | | | | | | X | (3) E |
| 23 | Replace air filter element | | X | | X | | | | | X | | | | | | X | | | | | | X | E |
| 24 | Check tightness of air supply system downstream from the air flow gauge | X | X | | X | | | | | X | | | | | | X | | | | | | X | E |
| 25 | Replace fuel filter | X | | | X | | | | | X | | | | | | X | | | | | | X | E |
| 26 | Check and, if necessary adjust, idle speed, ignition timing and exhaust emissions | X | X | | X | | | | | X | | | | | | X | | | | | | X | E |
| 27 | Clean and check spark plugs | | X | | X | | | | | X | | | | | | X | | | | | | X | E |
| 28 | Replace spark plugs | | X | | X | | | | | X | | | | | | X | | | | | | X | E |
| 29 | Check and if necessary tap up battery electrolyte level, tighten and grease terminals | X | X | | X | | | | | X | | | | | | X | | | | | | X | (8) E |
| 30 | Check head lamps beam aiming and adjust it, if necessary | X | | | | | | | | | | | | | | | | | | | | | |
| 31 | Lubricate door and hood hinges. Adjust strikers, as necessary. Grease the hood locking catches. | X | X | | X | | | | | X | | | | | | X | | | | | | X | |
| 32 | Check underbody and body work | | X | | X | | | | | X | | | | | | X | | | | | | X | |
| 33 | Tune vehicle | X | X | | X | | | | | X | | | | | | X | | | | | | X | |

| No. | OPERATION | A (1) | Km11000 | | | | | | | | | | | | | | | | | | Notes | | |
|-----|--|----------|---------|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|
| | | | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | | 190 | 200 |
| 34 | Check sensor of oxygen contents in exhaust gas | | | | | | | | | | X | | | | | | | | | | | X | E |
| 35 | Replace catalyst of exhaust gas | | | | | | | | | | X | | | | | | | | | | | X | (B) E |

- (1) A= 1000÷1500 K m
- (2) Check **oil level** every 500 km and when refuelling
- (3) Check more frequently if driving in **very dusty areas**
- (4) Check frequently **when** refuelling
- (5) To be performed in **any** case every **two** years

- (6) To be **performed** more frequently when driving **under particular** stress conditions (sport driving) or on **hilly** roads
- (7) To be performed in **any** case every 12 months
- (8) To be performed in **any** case every 5 years
- E) Operation relevant to **emission** control

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May 1988

COMPLETE CAR