DELTA HF integrale 16v Introduction and technical data

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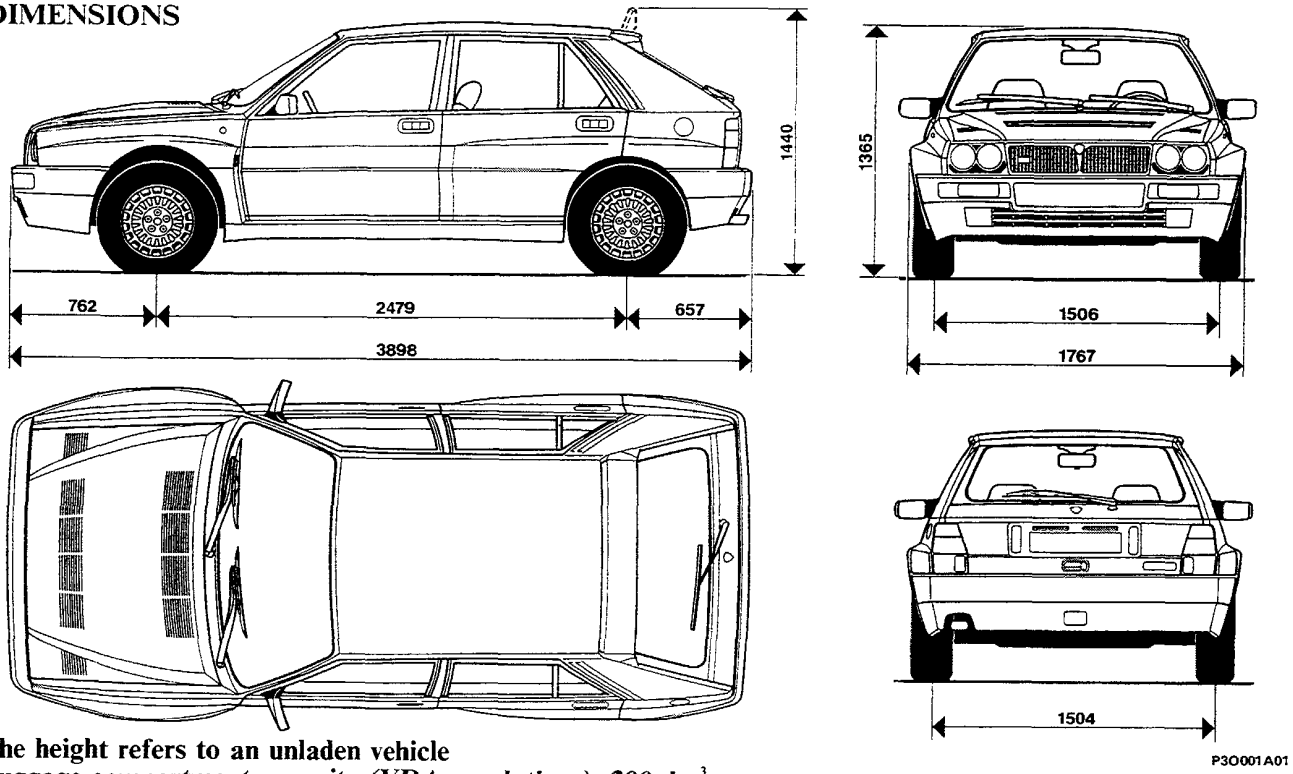
page

For anything not dealt with in this publication refer to the 4WD 1st volume Manual Print n° 504.787/02/03/04/05/06/07/08/09/11/12) and to Manual 505.495/02.

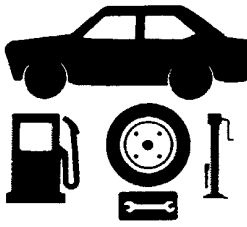
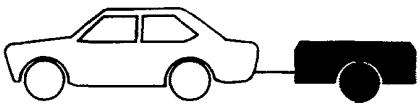
DIMENSIONS



P3O001A01

The height refers to an unladen vehicle
Luggage compartment capacity (VDA regulations): 200 dm³.
Load carrying compartment capacity (rear seat folded down)(VDA regulations): 940 dm³.

WEIGHTS
(in kg)

		1340
		1790
Maximum permissible loads on the axles ■		1020
		1020
Maximum permissible load on the roof		80
Load on the tow hook (trailer with braking system)		70
	Without braking system	500
	With braking system	800

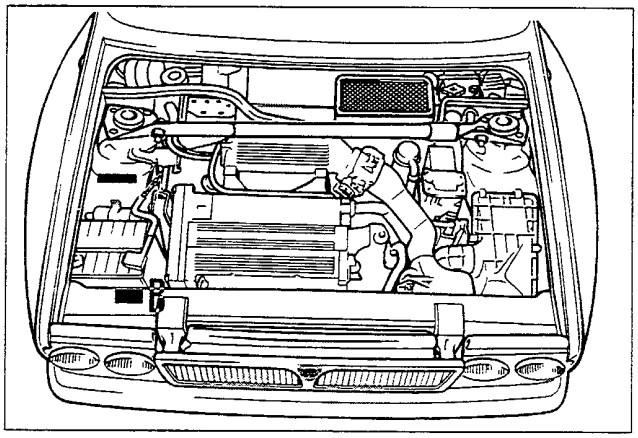
■ Loads which should never be exceeded

NOTE FOR ACCESSORIZED VERSIONS: Where there is special equipment (non standard air conditioner, sun roof, device for trailer), the weight of the vehicle when empty increases and therefore the carrying capacity may increase, compared with the maximum permissible loads.

IDENTIFICATION DATA

	CHASSIS	ENGINE	VERSION	5 speed gearbox
1995 16v turbo	ZLA 831 ABO	831 E5.046	831 ABO 29	●

LOCATION OF IDENTIFICATION DATA ON VEHICLE

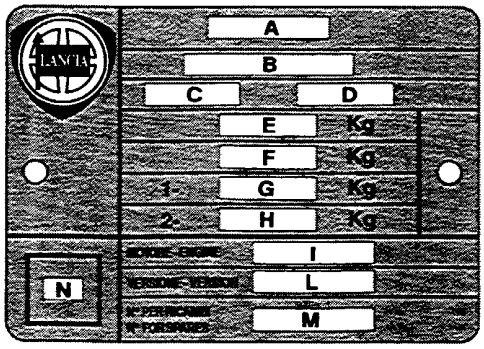


P3O002A02 P3O002A01

A Chassis number

- Type of vehicle: (ZLA 831 ABO)
- chassis manufacture number.

NOTE *The engine type and number are stamped on the engine crankcase behind the engine oil cartridge filter.*



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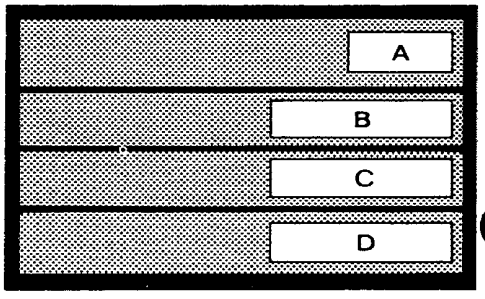
B V.I.N. Plate (EEC regulations)

A. Name of manufacturer.
B. Type approval number.
C. Vehicle type identification code.
D. Chassis manufacture number.
E. Maximum authorized weight of vehicle fully laden.
F. Maximum authorized weight of vehicle fully laden plus tow.
G. Maximum authorized weight on first axle (front).
H. Maximum authorized weight on second axle (rear).
I. Bodywork version code.
L. Engine type.
M. Spares number.
N. Correct value of smoke absorption coefficient (for diesel engine).

Body paintwork identification plate

It is located inside the engine compartment cover

A. Paint manufacturer
B. Description of colour
C. Colour code
D. Colour code for retouches or spraying



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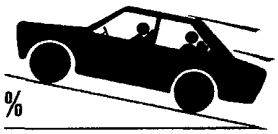
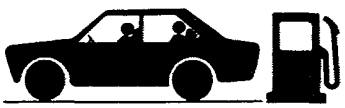
Speed kph 	1	62
	2	100
	3	142
	4	188
	5	220
	R	62
Maximum climable gradient  %	1	58
	2	40
	3	25
	4	17
	5	12
	R	68

EEC fuel consumption figures (litres/100 km) 	Urban cycle (A)	13
	Constant speed 90 km/h (B)	8,2
	Constant speed 120 km/h (C)	10,6
	Average consumption (CCMC proposal) $\frac{A+B+C}{3}$	10,6

The fuel consumption figures given in the table have been defined in the course of official tests and in accordance with EEC regulation procedures. In particular, the bench tests measure simulated urban cycle fuel consumption whilst fuel consumption at constant speeds of 90 and 120 km/h are measured both directly on a flat, dry road and in equivalent bench tests. These values can provide useful indications for a comparison between different vehicles. Traffic conditions, driving styles, atmospheric conditions and the general state of the vehicle can, in practice, lead to different fuel consumption figures from those established using the above procedures.

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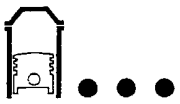
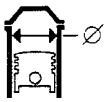
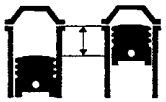
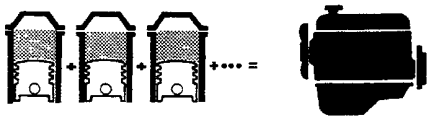
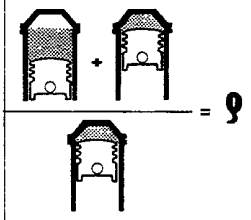
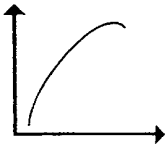
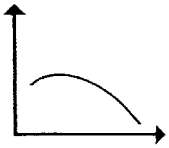
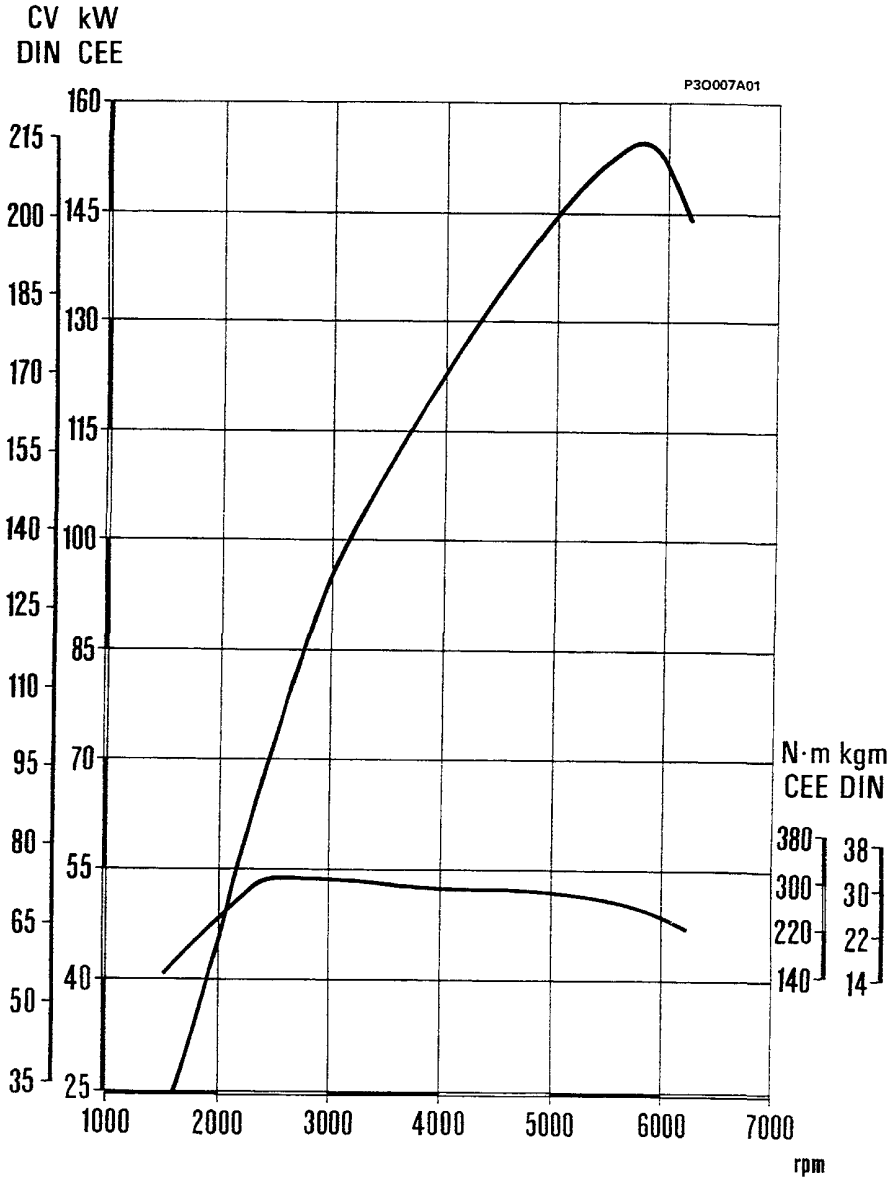
Capacities	Unit		Quantity dm³	Quantity (kg)
Petrol O.N. 95 unleaded			57	-
50% + ▲ Paraflu FIAT 11	Total capacity of cooling system		6.20	-
SELENIA SAE 15W40	Total capacity		5.90	5.40
	Partial capacity (periodic replacement)		5.30	4.80
TUTELA TOP 4 (270° C)	Total capacity of hydraulic clutch and braking system		0.56	-
a = TUTELA ZC 80S		a	3.80	3.40
b = TUTELA GI/A		b	-	-
TUTELA W 90/M DA	a b — Self-locking	a	-	-
		b	1.1	1
a = TUTELA GI/A	a b	a	0.75	-
b = K 854		b	-	-
c = TUTELA MRM2	c	c	-	0.10
+ DP1	☼ 3% / ❄ ~ - 10 °C 50% / ~ - 20 °C 100%		2	-

▲ Distilled water

Name of product	Description International designation	Usage
SELENIA SAE 15 W/40	Semi-synthetic multigrade engine oil. Exceeds specifications API SG, CCMC-G4 and UNI 20153	Temperature - 15°C ÷ 40°C
VS MAX SAE 15 W/40	Mineral based multigrade engine oil. Exceeds specifications API SG, CCMC-G4 and UNI 20153	Temperature - 15°C ÷ 40°C
SELENIA Turbo Diesel SAE 15 W/40	Semi-synthetic, multigrade engine oil. Exceeds specifications API CD, CCMC-PD2, UNI 20153	Temperature - 15°C ÷ 40°C
VS MAX Diesel SAE 15 W/40	Mineral based multigrade engine oil. Exceeds specifications API CD, CCMC and UNI 20153	Temperature - 15°C ÷ 40°C
TUTELA ZC 80S	EP SAE 80W oil. Satisfies standards MIL-L-2105 and API GL4	Manual gearboxes and differentials
TUTELA ZC 90	Non EP SAE 80 W/90 oil, for manual gearboxes, containing anti-wear additives.	Gearboxes and non hypoid differentials
TUTELA W 90/M DA	Special sae 80 w/90 ep oil for normal and self-locking differentials. Satisfies standards MIL–L–2105 D and API GL5	Hypoid differentials Self-locking differentials. Steering boxes
TUTELA GI/A	"DEXRON II" type oil for automatic transmissions.	Automatic gearboxes. Power assisted steering
TUTELA CVT Universal	Oil for continuous variation automatic transmissions.	Continuous variation automatic transmissions
TUTELA JOTA 1	Lithium soap based grease, consistency NLGI = 1	Greasing the vehicle except for components particularly exposed to water requiring special greases.
TUTELA MRM2	Water-repellant, lithium soap based grease containing molybdenum disulphide, consistency NLGI = 2	Constant velocity joints
TUTELA MR3	Lithium soap based grease, consistency NLGI = 3	Wheel hub bearings, steering rod, various components
TUTELA PLUS 3 (240 °C)	Synthetic fluid, F.M.V.S.S. n° 116 DOT 3 ISO 4925, CUNA NC 956-01	Hydraulic brakes and hydraulically operated clutches
TUTELA TOP 4 (270 °C)	Synthetic fluid, F.M.V.S.S. n° 116 DOT 4 ISO 4925, CUNA NC 956-01	Hydraulic brakes and hydraulically operated clutches
K 854	Lithium soap based grease, consistency NLGI = 000, containing molybdenum disulphide	Rack and pinion steering boxes
SP 349	Special grease compatible with brake fluid	Load proportioning valve Load proportioning valve rod bush
Arexons DP1	Mixture of alcohol, water and surface agents CUNA NC 956-11	To be used undiluted or diluted in windscreen washer systems
Paraflu[11]	Mono-ethylene glycol based anti-freeze for cooling system , CUNA NC 596 - 16	Cooling circuits. Percentage to be used 50% up to - 35°C
Diesel Mix Arexons	Additive for diesel fuel with protective action for diesel engines	To be mixed with the diesel fuel (25 cc per 10 litres)

CHARACTERISTICS

		1995 16v turbo
	Cycle	OTTO 4 stroke supercharged
	Timing	with 2 overhead camshafts TOHC
	Engine balancing	by means of 2 counter balance shafts
	Fuel system type	Weber-Marelli I.A.W. electronic injection/ignition
	Number of cylinders	4
	Cylinder liner (bore) mm	84
	Stroke mm	90
	Capacity cc	1995
	Compression ratio	8
	Max power kW (CEE) / CV (DIN)	155 / (215)
	Max power rpm	5750
	Max torque daNm (CEE) / kgm (DIN)	30.8 / (32)
	Max torque rpm	2500

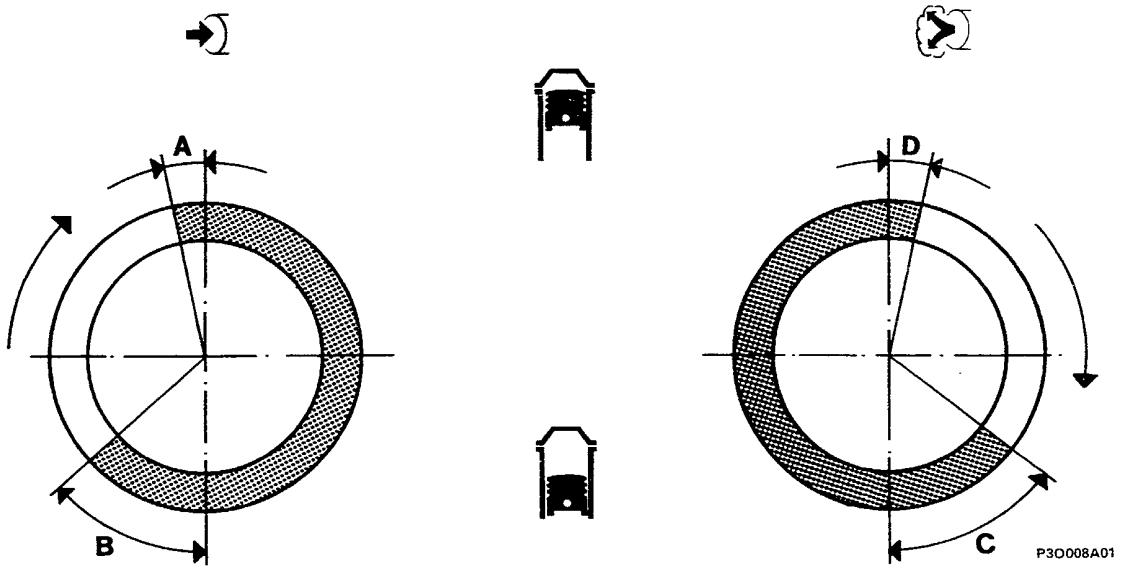


Typical power curves obtained by EEC method

The power curve illustrated can be obtained with the engine overhauled and run in, without a fan, with a silencer and air filter fitted at sea level.

DESCRIPTION		1995 16v turbo
		Values in mm
clearance for timing check		0,80
		0,80
17 - 20 operational clearance		0,35 ± 0,04
		0,40 ± 0,03

TIMING DIAGRAMS



TIMING ANGLES

			1995 16v turbo
A	Inlet	opens BTDC	8°
B		closes ABDC	35°
C	Exhaust	opens BBDC	30°
D		closes ATDC	0°

WEBER - MARELLI (IAW) INTEGRATED ELECTRONIC INJECTION/IGNITION SYSTEM COMPONENTS

	1995 16v turbo
IAW-4WG injection/ignition system electronic control unit	
Throttle casing	56 CFL 95
Fuel pressure regulator	RPI/3 bar
Injector	IW 058
Automatic idle adjustment solenoid valve	VAE - 06
Electric fuel pump	PI-022
Fuel filter	FI-02/2
Absolute pressure sensor	PRT 06
Throttle valve position sensor (potentiometer)	PF-09
Coolant temperature sensor	WTS - 05
Intake air temperature sender unit	ATS - 04
Lambda sensor (Bosch)	0.258.003.009
Twin relay feed for electric pump and injection/ignition control unit	RSC 240 102
Waste-gate solenoid valve (Pierburg)	7.2105.00

FUEL SYSTEM

Type	Weber Marelli I.A.W. integrated electronic injection/ignition
Pump	electrical
Capacity	about 120 l/h
Fuel pressure regulator calibration	3 bar

Checking concentration of idle exhaust emissions

	CO (%)	HC (p.p.m.)	CO_2 (%)
Upstream of the catalytic converter	0.4 ÷ 1	⩽600	⩾ 12
Downstream of the catalytic converter	⩽0,35	⩽90	⩾ 13

SUPERCHARGING

Turbocharger operated by exhaust gases, cooled by engine coolant and with waste-gate valve and air/air heat exchanger.
Cross section of turbocharger

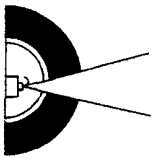
Turbocharger: type	Garrett T3
Maximum supercharging pressure	1 bar

WHEELS

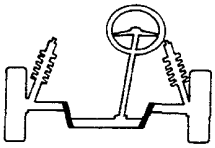
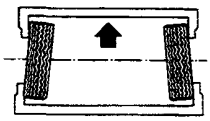
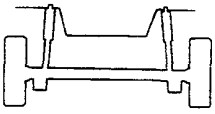
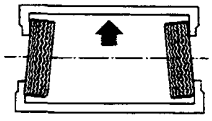
 Tyre		type	205/45 - ZR 16"
	front	average load	2,2 bar
		heavy load	2,5 bar
	rear	average load	2,2 bar
		heavy load	2,5 bar
 Rim		type	light alloy 7½Jx16"H2-37

NOTE Spare wheel with 3.50 Bx16" H2-37 light alloy rim and T115/70 R16" tyre
Speed limit: 80 km/h. Inflation pressure: 4,2 bar

WHEEL GEOMETRY




unladen vehicle (*)

 Front suspension	camber (**)		- 1' ± 30'
	caster (**)		4°10' ± 30'
	toe in		0 ± 2 mm (●)
 Rear suspension	camber (**)		- 1°30' ± 30'
	toe in		3 ÷ 5 mm (●)

(*) With tyres inflated to the correct pressure and vehicle in running order (with full fuel tank)
(**) Angles cannot be adjusted (●) Measured between the wheel rims

SUMMARY OF DATA

STARTER MOTOR	M. Marelli E70R - 1,4 kW - 12 V (with reduction gear)
ALTERNATOR	M. Marelli AA125R - 14 V - 65 A
VOLTAGE REGULATOR	M. Marelli RTT 119 AC
BATTERY	12 V - 55 Ah - 225 A
IGNITION SYSTEM	Weber-Marelli (MPI) integrated electronic injection/ignition
IGNITION COIL	M. Marelli BAE 800 AK
POWER MODULE	M. Marelli AEI 450A
SPARK PLUGS	Bosch WR6 DTC (with three point electrode)

WEBER - MARELLI (IAW) INTEGRATED ELECTRONIC INJECTION/IGNITION CONTROL MODULE

Make and type	Weber-Marelli IAW - 4WG
Firing order	1 – 3 – 4 – 2

IGNITION COIL WITH 2 HIGH TENSION PICK UPS (n° 2)

Make		M. Marelli
Type		BAE 800 AK
Ohmic resistance of primary winding at 20 °C	Ω	0,495 ÷ 0,605
Ohmic resistance of secondary winding at 20 °C	Ω	6660 ÷ 8140

POWER MODULE

Make and type	M. Marelli AEI 450 A

DETONATION SENSOR

Make	Bosch
Type	0.261.234.095

TDC AND RPM SENSOR

Make and type		M. Marelli SEN 8 D
Sensor winding resistance at 20 °C	Ω	578 ÷ 782
Distance (gap) between the sensor and the crankshaft pulley tooth	mm	0,4 ÷ 1

IGNITION TIMING SENSOR (HALL effect)

Make and type	M. Marelli SFA 100 A

ADVANCE ON ENGINE

With engine idling (850 ± 50 rpm)	10° ± 2°

SPARK PLUGS

Make and type		Bosch WR6 DTC
Thread		M 14 x 1,25
Electrode gap	mm	0,8 ÷ 1

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FREE SERVICE

Together with the documents which LANCIA supply with every new vehicle, the Owner will receive a free service coupon to be used after 1000 - 1500 km which recommends carryint out the following "Systematic Checks" in accordance with the warranty methods given in the Service Booklet.

Tightening	- inlet and exhaust manifolds
Checks	- CO idle content
Inspections	- ignition advance - correct injector fitting - tyre wear - engine idle speed with possible adjustment - exhaust pipes/silencers with possible adjustments/alignment - door and lid knobs/locks, lubricating if necessary - tightening doors and lids and adjusting if necessary
Check seal of system seals, pipes and unions eliminating leaks and topping up levels, if necessary	- engine lubrication - engine cooling - fuel system - braking system and hydraulically operate clutch - power assisted steering
Check seal of gasket/boots	- gearbox - differential - steering - transmission - shock absorbers
Change	- engine oil - cartridge oil filter - gearbox oil - rear differential oil
Air conditioning system checks	- compressor belt tension - fixing of compressor bolts and pulley - system operation and refrigeration

Lubrication service

The engine oil should be changed every 15,000 Km, or, irrespective of the mileage, every 12 months.

The oil filter should be replaced at the same time as the engine oil is changed.

For the correct and optimum operation of the engine it is advisable to use the type of oil recommended in the table on page 4.

If the vehicle is constantly subject to heavy usage (a great deal of town driving, journies in dusty areas, constant mountain driving, towing a trailer or caravan, harsh climatic conditions, constant motorway driving at high speeds, etc.) then these lubrication services must be carried out at more frequent intervals. In the above mentioned conditions it is also advisable to carry out the Planned maintenance services and the intermediate checks more often.

PLANNED MAINTENANCE OPERATIONS	THOUSANDS OF KM	15	30	45	60	75	90
	MONTHS	12	24	36	48	60	72
Check tightening of inlet and exhaust manifolds			☆		☆		☆
Check operation of Lambda sensor				☆			☆
Check idle CO content		☆	☆	☆	☆	☆	☆
Check anti-evaporation system				☆			☆
Check, adjustment tappet clearance			☆		☆		☆
Check condition and wear of tyres		☆	☆	☆	☆	☆	☆
Check operation of front brake pad wear indicator		☆	☆	☆	☆	☆	☆
Check condition and wear of rear brake pads			☆		☆		☆
Visual inspection bodywork exterior and underbody protection		☆	☆	☆	☆	☆	☆
Check condition of pipes (exhaust, supply, fuel system, braking system)		☆	☆	☆	☆	☆	☆
Check condition of rubber elements, boots, hoses, etc.		☆	☆	☆	☆	☆	☆
Check condition and tension of various drive belts and adjust if necessary							☆
Check crankcase ventilation system							☆
Replace fuel filter			☆		☆		☆
Replace air filter cartridge			☆		☆		☆
Changing engine oil and oil filter		☆	☆	☆	☆	☆	☆
Top up fluid levels (engine cooling, braking system, windscreen washer, power assisted steering, hydraulically operated clutch)		☆	☆	☆	☆	☆	☆
Check condition of timing belt					☆		
Check condition of counter balance shaft belt			☆		☆		☆
Check ignition cables		☆	☆	☆	☆	☆	☆
Replace spark plugs		☆	☆	☆	☆	☆	☆
Check ignition/injection system			☆		☆		☆
Change front differential and gearbox oil			☆		☆		☆
Change rear differential oil			☆		☆		☆

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Additional operations

In addition to the operations in the "Planned maintenance" programme the following checks are also needed

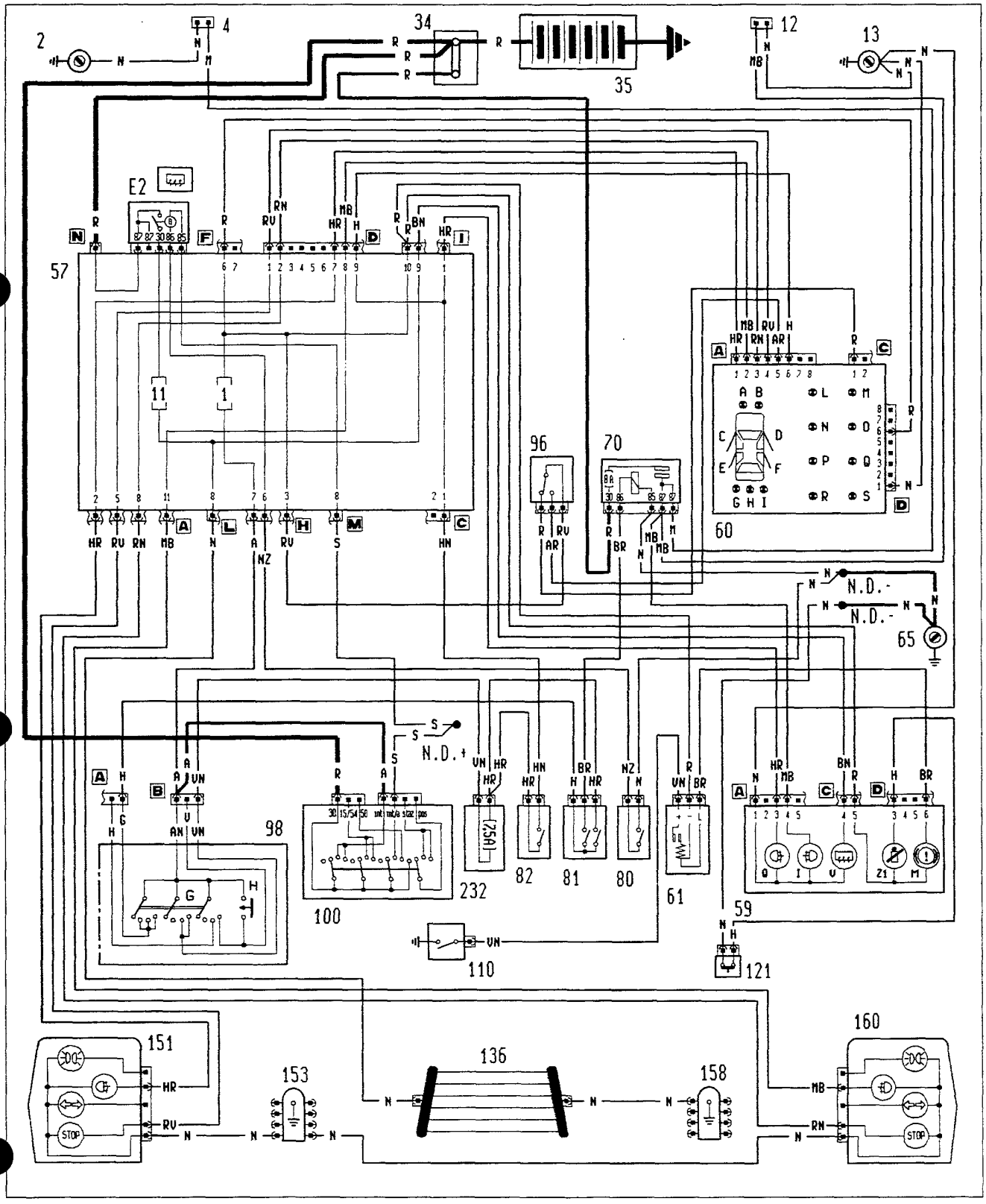
Every 500 km or before long journies check	- engine oil level - coolant level - brake fluid level - tyre inflation pressure
Every 60,000 km or 2 years change	- engine coolant
Every 105,000 km change	- timing belt - counter balance shaft drive belt
Every 120,000 km change	- gearbox oil
Every 2 years change	- brake fluid

Print no. 505.493.03

NOTE The numbers in the table correspond to the page number of the electrical equipment in the manual

Version: 2000 i.e. HF 16v integrale

Rear fog lamps and warning light - Braking lights - Heated rear windscreen and warning light - Preparation for fog lamps and warning light - Handbrake warning light - Seat belt unfastened warning light - (See key at end of wiring diagrams).



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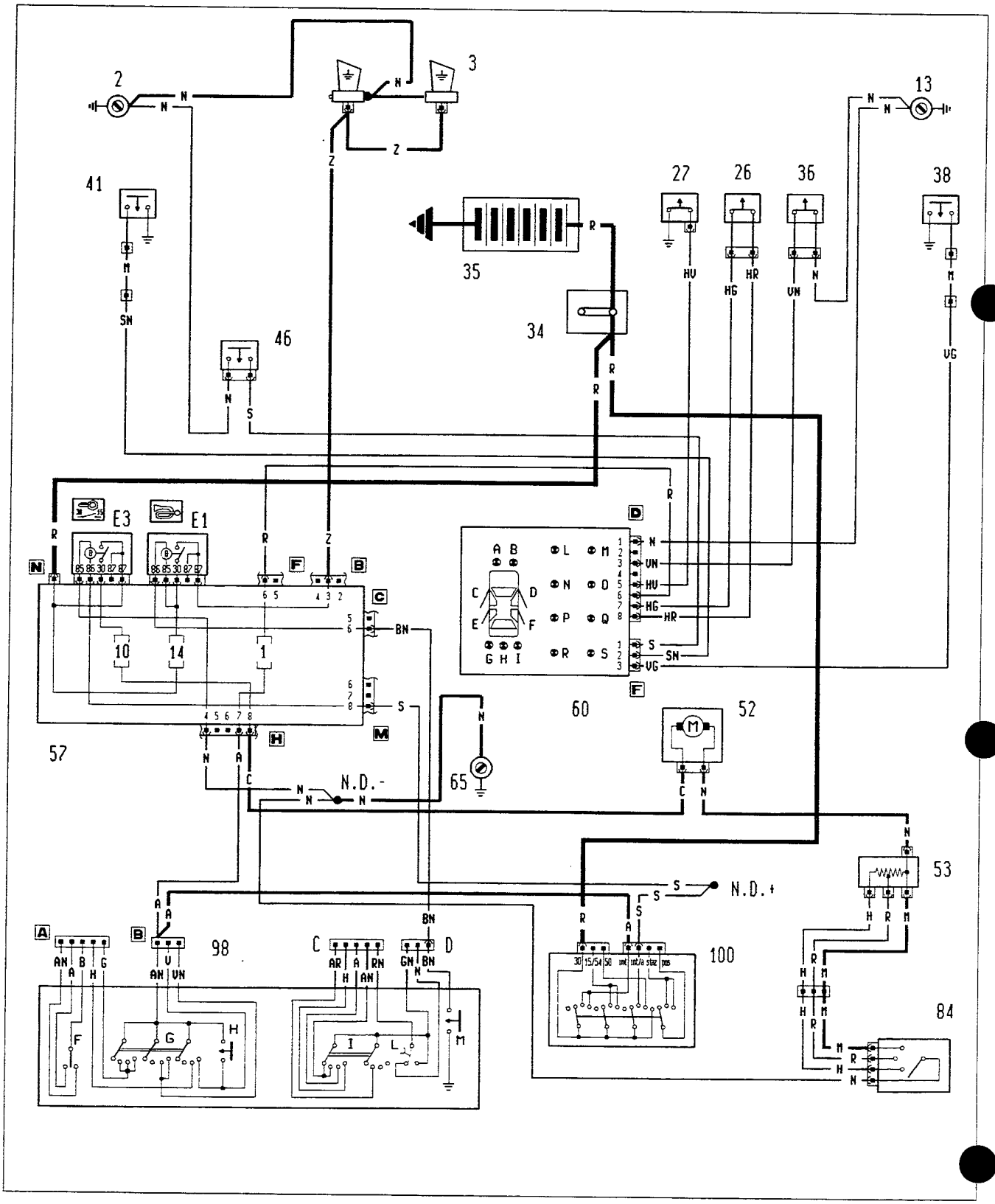
Version: 2000 i.e. HF integrale 16v

Electric horns - Car interior ventilation - Front brake pad wear warning light - Insufficient brake fluid level warning light - Insufficient engine oil pressure warning light - Insufficient engine oil warning light - Insufficient coolant level warning light (See key at end of wiring diagrams)



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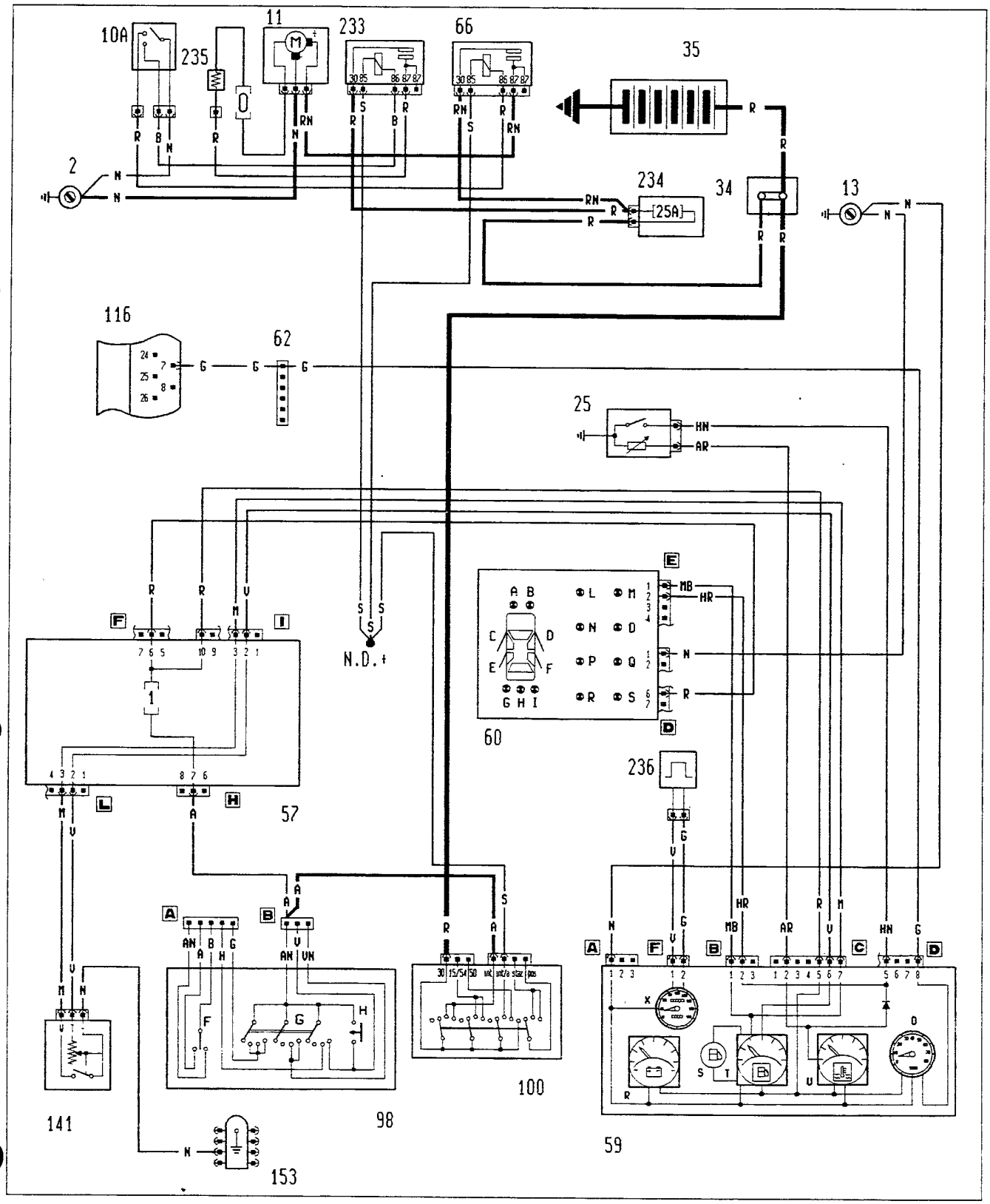
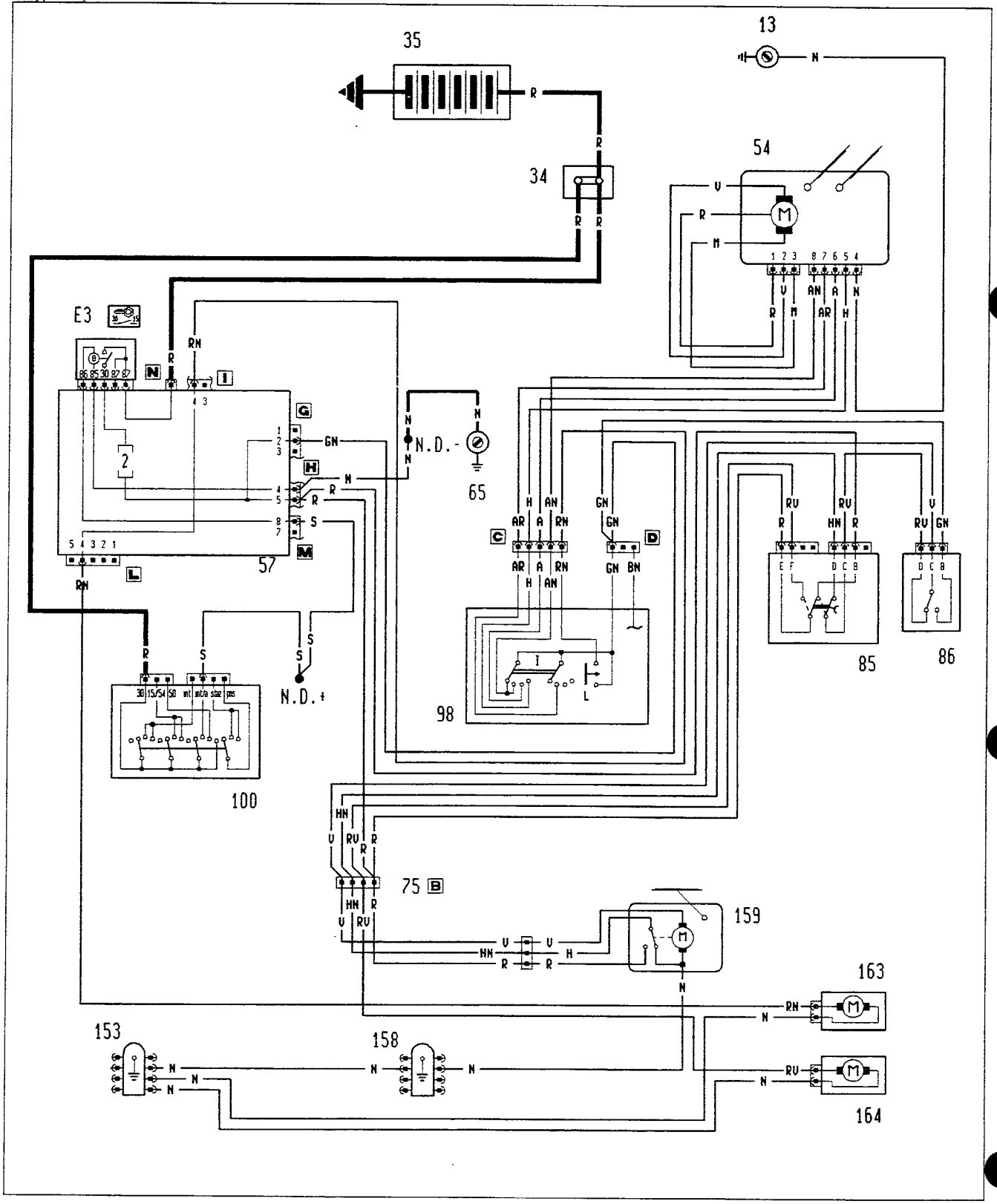
Version: 2000 i.e. HF integrale 16v
Engine cooling - Fuel level gauge and reserve warning light - Rev counter - Speedometer - Voltmeter - Water temperature gauge and overheating warning light - (See key at end of wiring diagrams).



55.

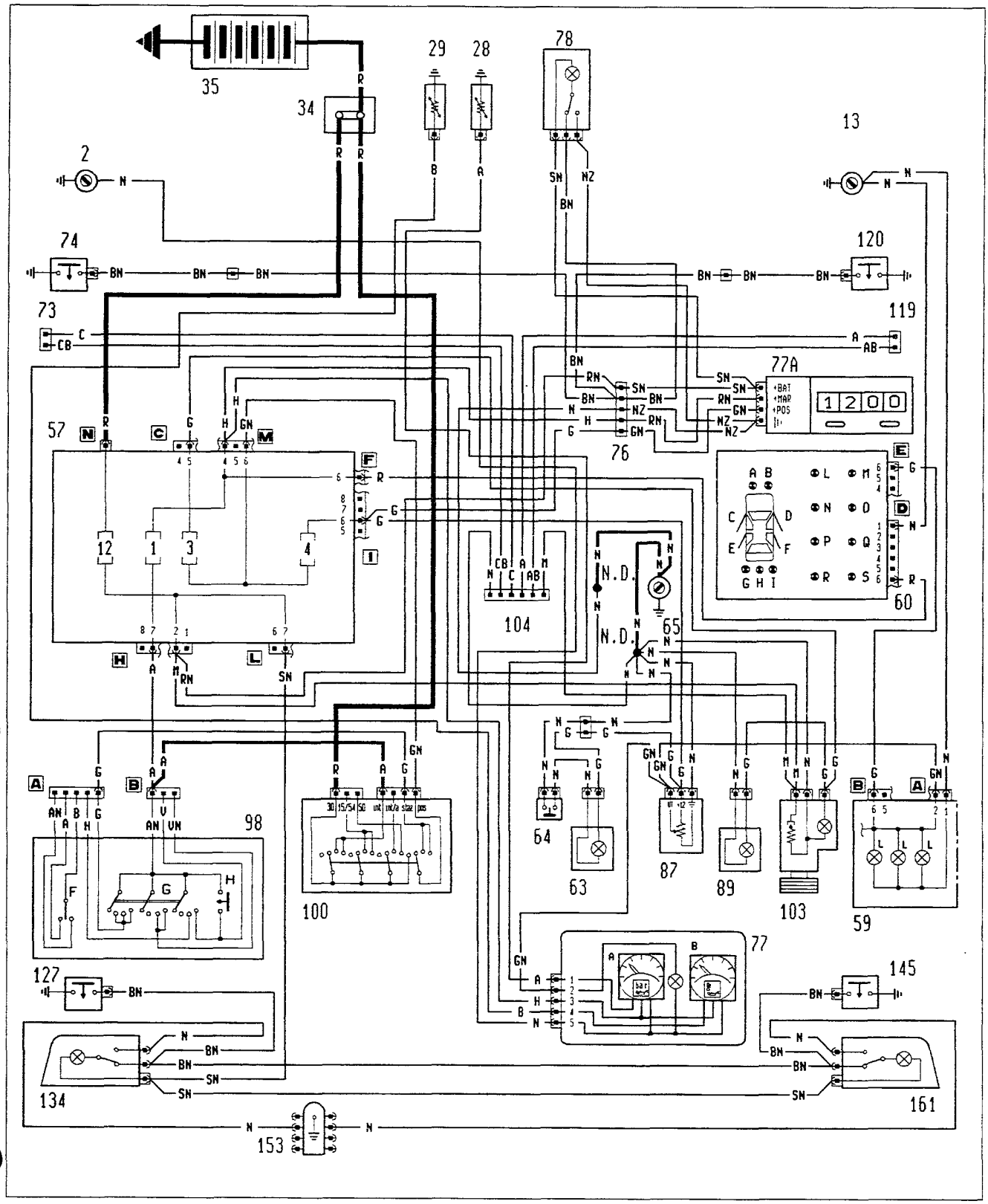
Version: 2000 i.e. HF integrale 16v

Windscreen wiper - Rearscreen wiper - Electric windscreen washer pump - Electric pump for rearscreen washer - (See key at end of wiring diagrams)



Version: 2000 i.e. HF integrale 16v

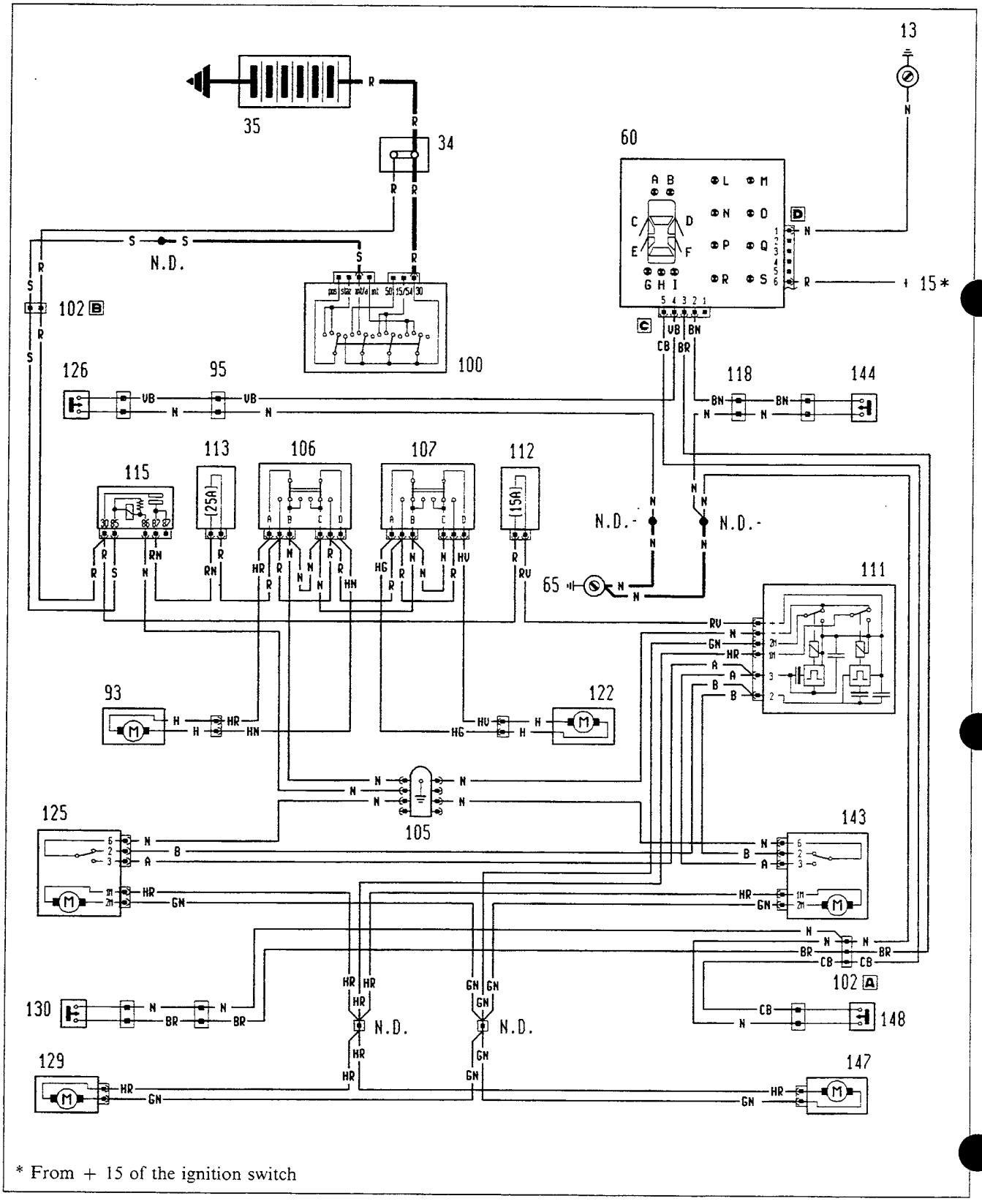
Car interior lighting - Glove compartment light - Cigar lighter - Digital clock - Preparation for radio - Switch light - Instrument panel light and dimmer - Combined instrument - Engine oil pressure gauge - Engine oil temperature gauge - (See key at end of wiring diagrams).



55.

Version: 2000 i.e. HF integrale 16v

Electric front windows - Central locking - (See key at end of wiring diagrams)

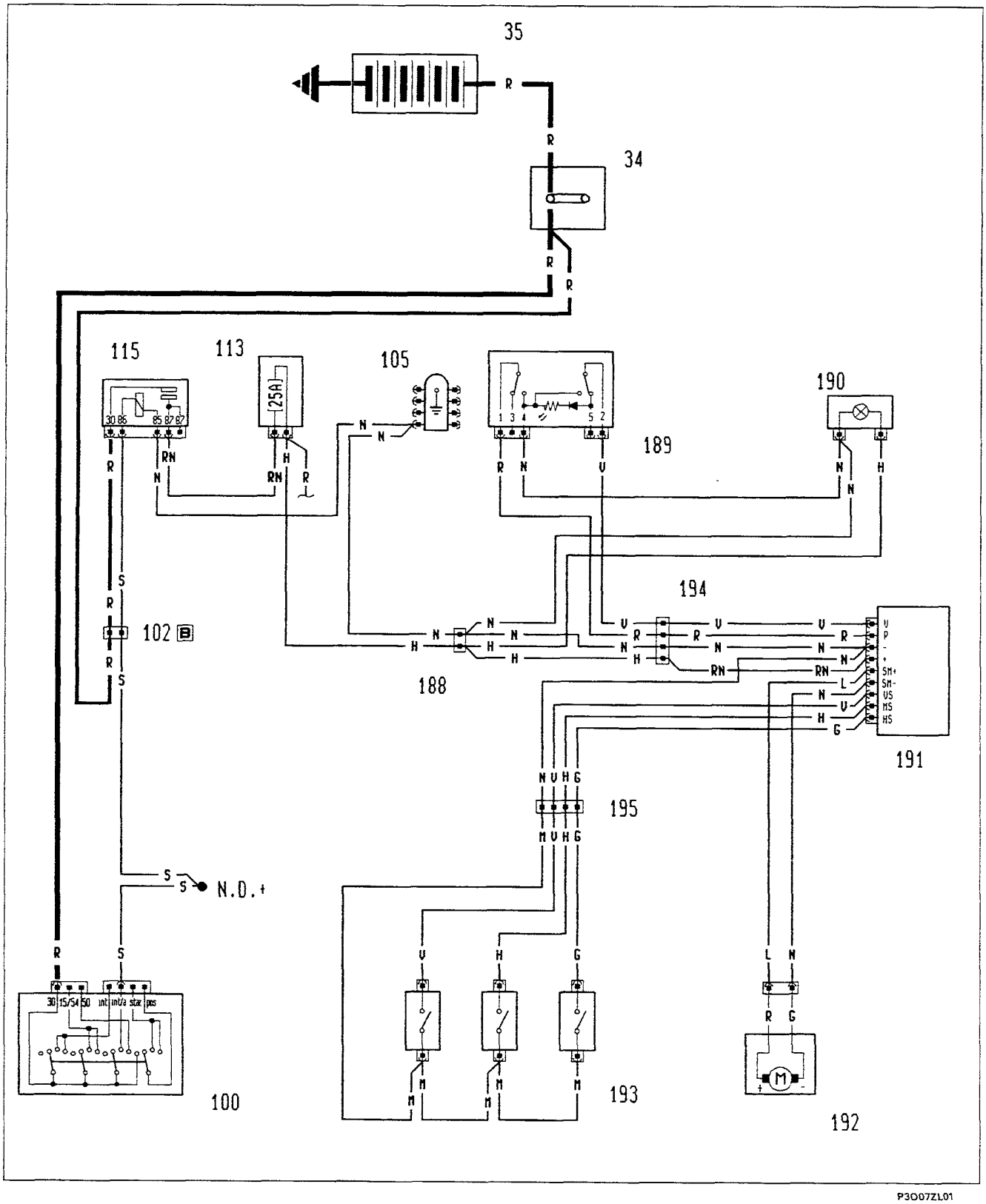


* From + 15 of the ignition switch

P3O06ZL01

Version: 2000 i.e. HF integrale 16v

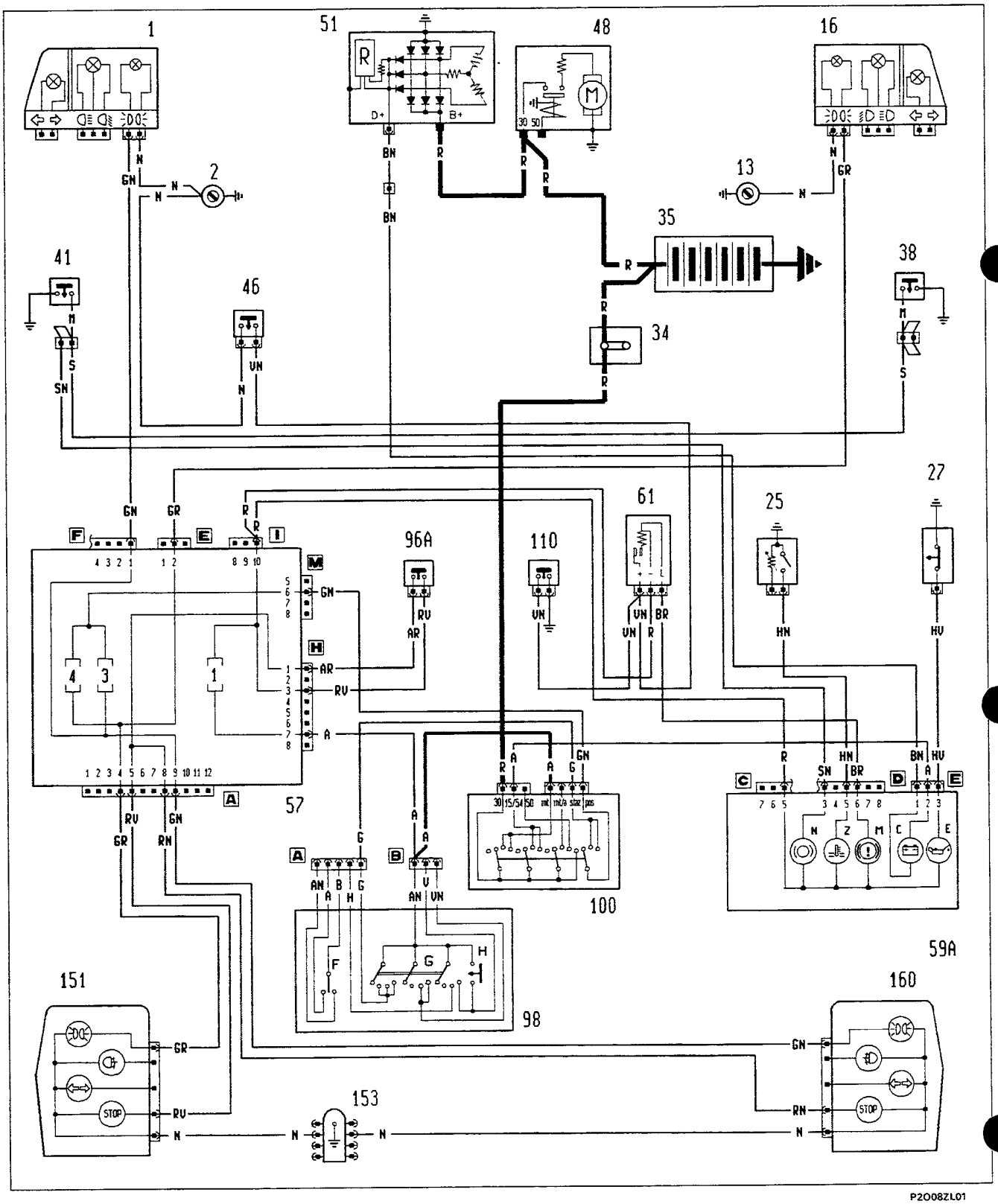
Electric sun roof - (See key at end of wiring diagrams).



55.

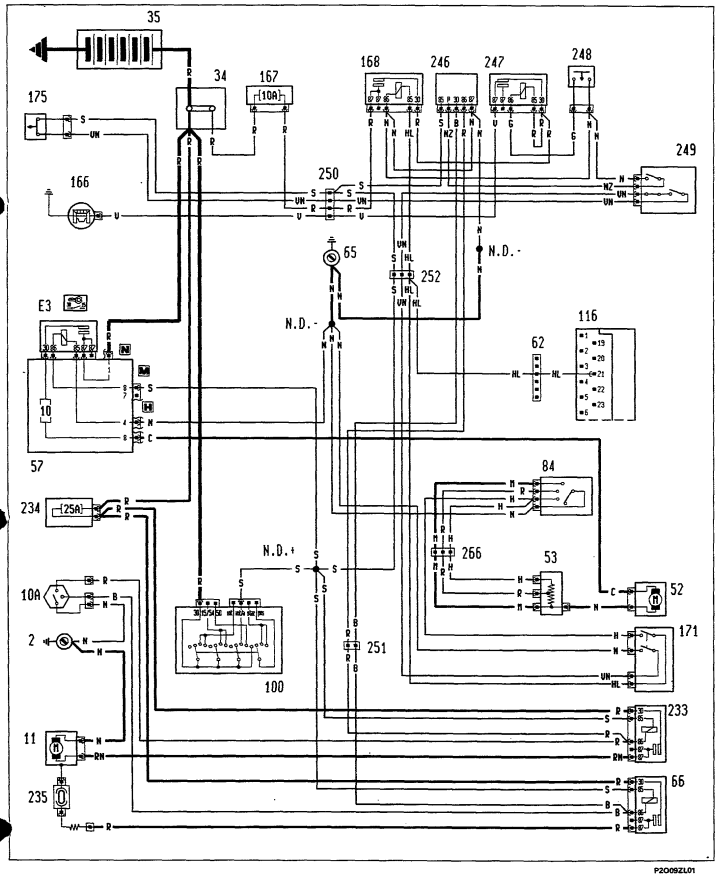
Variant without Control-system: 2000 i.e. HF integrale 16v

Parking lights and warning lamp - Braking lights - Handbrake applied and insufficient brake fluid level warning light - Battery recharging warning light - Front brake pad wear warning light - Insufficient engine oil pressure warning light - Coolant overheating warning light - (See key at end of wiring diagrams)



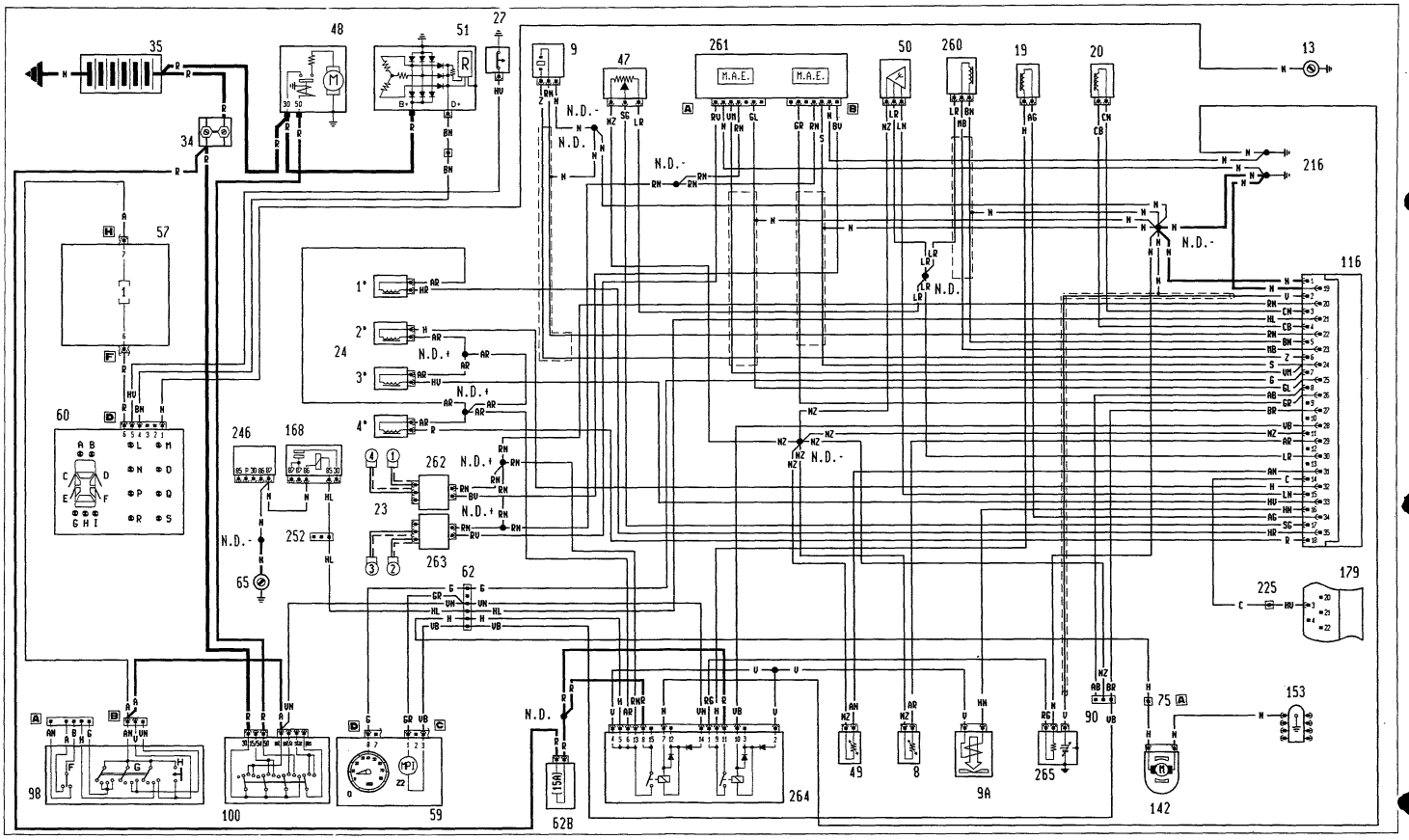
Version: 2000 i.e. HF integrale 16v

Air conditioner (See key at end of wiring diagrams)



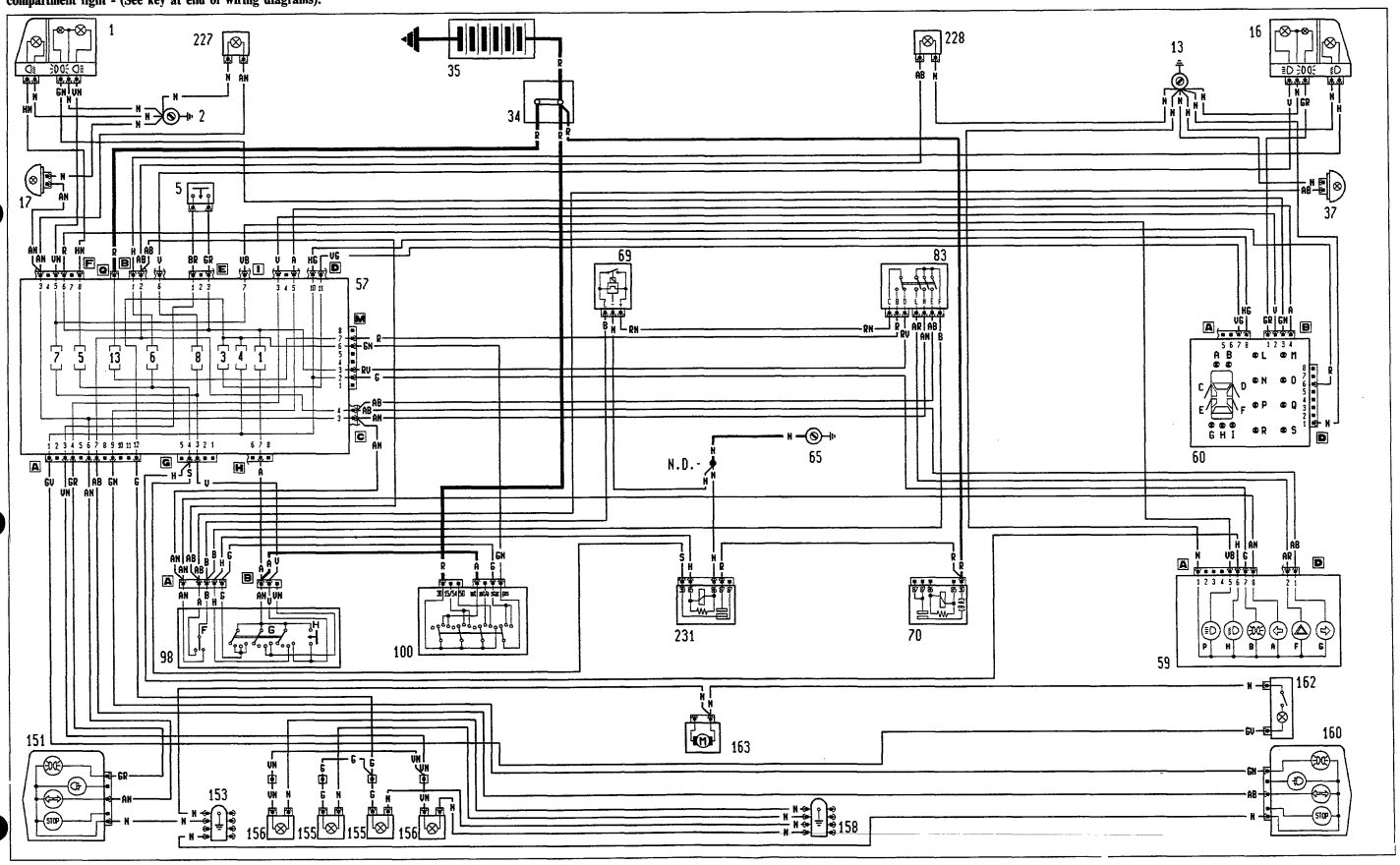
Version: 2000 i.e. HF integrale 16v

Starting - I.A.W. electronic injection/ignition - Recharging and warning light - Insufficient engine oil pressure warning light - Injection system failure warning light - (See key at end of wiring diagrams)

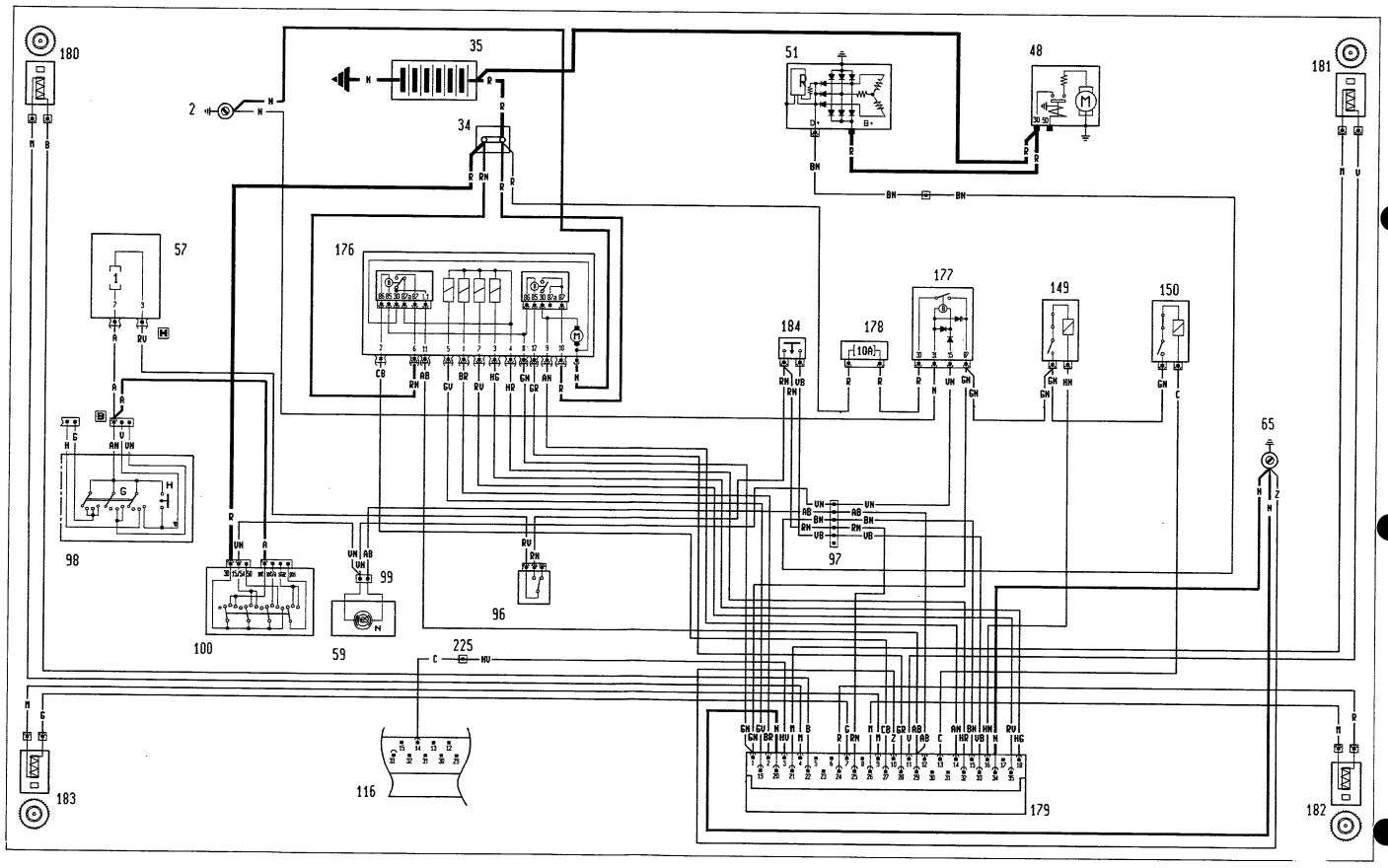


Version: 2000 i.e. HF integrale 16v

Parking lights and warning lamp - Dipped headlamps and warning light - Main beam headlamps and warning light - Headlamp flasher - Number plate lights - Direction indicators and warning light - Hazard warning lights and warning light - Reversing lights - Luggage compartment light - (See key at end of wiring diagrams).

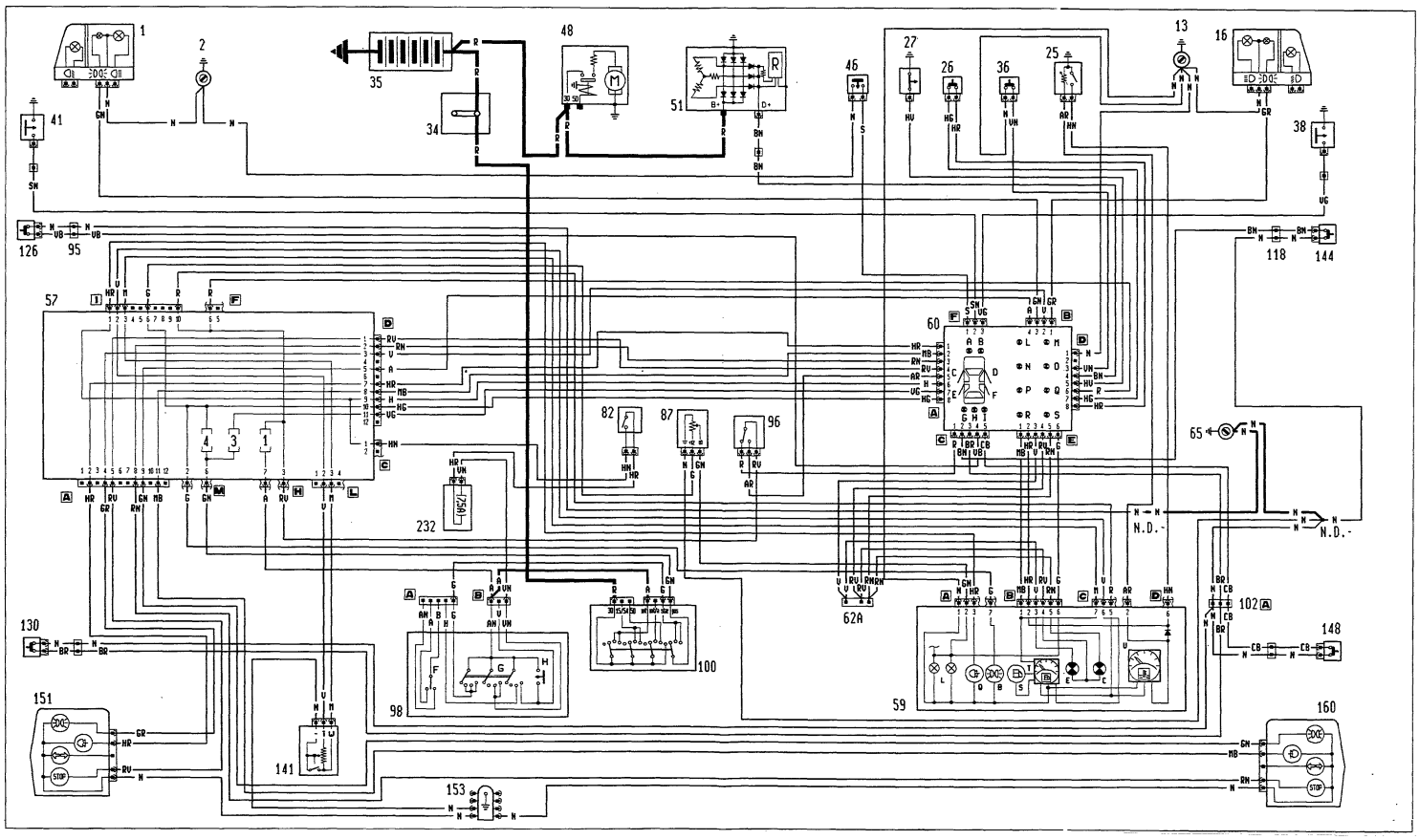


Version: 2000 i.e. HF integrale 16v
Anti-lock brakes and failure warning light (A.B.S.) - (See key at end of wiring diagrams).



55.

Version: 2000 i.e. HF integrale 16v
Control-System - (See key at end of wiring diagrams).



Key for components

1 Left front light cluster
2 Left front earth cable loom
3 Electric horns
4 Left fog lamp
5 Reversing lights switch
8 Engine coolant temperature sensor (I.A.W.)
9 Detonation sensor
9A Over-Boost solenoid valve
10A Thermostatic switch for two stage engine cooling fan
11 Radiator cooling fan
12 Preparation for right fog lamp
13 Right front earth cable loom
16 Right front light cluster
17 Left side direction indicator
19 Automatic idle adjustment solenoid air valve (I.A.W.)
23 Spark plugs
24 Fuel injectors
25 Engine coolant temperature sender unit and switch signalling engine coolant overheating
26 Engine oil level sensor
27 Insufficient engine oil pressure switch
28 Engine oil pressure sender unit
29 Engine oil temperature sender unit
34 Connector block
35 Battery
36 Coolant level sensor
37 Right side direction indicator
38 Right front brake pad wear sensor
41 Left front brake pad wear sensor
46 Brake fluid level sensor
47 Butterfly valve position sensor (I.A.W.)
48 Starter motor
49 Air temperature sensor (I.A.W.)
50 Absolute pressure sensor
51 Alternator
52 Heater fan
53 Electric fan speed resistor
54 Windscreen wiper motor
57 Fuse and relay junction unit:
E1 Electric horn relay
E2 Heated rear windscreen relay
E3 Ignition discharge relay
59 Instrument panel:
A Left side direction indicators warning light
B Side lights warning light
C (Red) general warning light for Control-System
E Starting go-ahead signal (green)
F Hazard warning lights warning light
G Right side direction indicators warning light
H Dipped headlamps warning light
I Fog lights warning light
L Instrument panel light bulbs
M Handbrake warning light
N A.B.S. failure warning light
O Rev counter
P Main beam headlamps warning light
Q Rear fog lamps warning light
R Voltmeter
S Fuel reserve warning light
T Fuel level gauge
U Coolant temperature gauge
V Heated rear windscreen warning light
X Electronic tachometer
Z1 Seat belts not fastened warning light
Z2 Injection system failure warning light
59A Instrument panel (version without Control-System)
C Battery recharging warning light
E Insufficient engine oil pressure warning light
M Handbrake applied and insufficient brake fluid level warning light
N Front brake pad wear warning light
O Rev counter
Z Coolant overheating warning light
60 Control-System :
A Left front side light failure warning light
B Right front side light failure warning light
C Left front door ajar warning light
D Right front door ajar warning light
E Left rear door ajar warning light
F Right rear door ajar warning light
G Warning light signalling failure with side lights, left rear brake light
H Rear fog lamps warning light
I Warning light signalling failure with side lights, right rear brake light
L Insufficient brake fluid level warning light
M Front brake pad wear warning light
N Insufficient engine oil pressure warning light
O Battery recharging warning light
P Insufficient engine oil level warning light
Q Insufficient coolant level warning light
R Automatic transmission fluid overheating warning light
S Engine coolant overheating warning light
61 Intermittent device for handbrake warning light
62 Connection for electronic injection cables
62A Control-System diagnostic socket
62B 15A protective fuse for injectors and electric fuel pump
63 Glove compartment light
64 Glove compartment light push button
65 Earth cable loom under dashboard
66 Engine cooling fan 1st speed relay
69 Intermittent device for direction indicators and hazard warning lights
70 Fog lights relay
73 Left front speaker wiring
74 Front courtesy light push button on left front pillar
75 Connector for left longitudinal cables
76 Connector for courtesy light cables
77 Combined instrument
A Oil pressure gauge
B Oil temperature gauge
77A Digital clock
78 Front courtesy light
80 Heated rear windscreen switch
81 Fog lights switch
82 Rear fog lamps switch
83 Hazard warning lights switch
84 Heater fan switch
85 Rearscreen wash/wipe switch
86 Rearscreen wiper switch
87 Instrument panel and Control system light dimmer
89 Switch light
90 Diagnostic socket for injection system
93 Left front electric window motor
95 Connecting for cables signalling left front door ajar
96 Brake lights switch
96A Brake lights switch
97 Connection for anti-lock braking system cables
98 Steering column switch unit
A Connector
B Connector
C Connector
D Connector
E Connector
F Direction indicators operation
G Opearation of side lights, dipped headlamps, main beam headlamps
H Operation of headlamp flashers
I Operation of windscreen wiper
L Operation of windscreen washer
M Operation of electric horns
99 Prepartion for anti-lock braking system failure warning light
100 Ignition switch
102 Connection for cables for electric windows/-central locking/signalling doors ajar
103 Cigar lighter
104 Preparation for radio
105 Earth point on central tray
106 Left front electric window switch
107 Right front electric window switch
110 Push button for handbrake applied warning light
111 Central door locking control unit
112 Central locking control unit 15 A protective fuse
113 Electric front windows and electrically operated sun roof 25 A protective fuse
115 Electric front windows relay feed
116 Injection/ignition electronic control unit (I.A.W.)
118 Connection for cables signalling right front door ajar
119 Right front speaker wiring
120 Front courtesy light push button on right front pillar
121 Switch signalling seat belts not fastened
122 Right front electric window motor
125 Left front door locking motor
126 Push button signalling left front door ajar
127 Rear courtesy light push button on left centre pillar
129 Left rear door locking motor
130 Push button signalling left rear door ajar
134 Left rear courtesy light
136 Heated rear windscreen
141 Fuel level gauge and reserve warning light control
142 Electric fuel pump
143 Right front door locking motor

144 Push button signalling right front door ajar
145 Push button for rear courtesy light on right centre pillar
147 Right rear door locking motor
148 Push button signalling right rear door ajar
149 Longitudinal accelerometer for anti-lock brakes
150 Transverse accelerometer for anti-lock braking system
151 Left rear light cluster
153 Rear earth cable loom
155 Number plate lights
156 Reversing lights
158 Earth cable loom on tailgate
159 Rearscreen wash/wipe
160 Right rear light cluster
161 Right rear courtesy light
162 Luggage compartment courtesy light
163 Electric windscreen washer pump
164 Electric pump for rearscreen washer
166 Compressor pulley electro-magnetic coupling
167 Air conditioner 10 A protective fuse
168 Air conditioning system electro-magnet coupling relay feed
171 Air conditioning system switch
175 Idle pressure switch (anti-frost)
176 Hidraulic control unit
177 Anti-lock brakes relay circuit
178 10 A protective fuse for anti-lock braking circuit
179 Anti-lock braking system electronic control unit
180 Sensor on left front wheel
181 Sensor on right front wheel
182 Sensor on right rear wheel
183 Sensor on left rear wheel
184 Switch on clutch pedal
188 Connection for electrically operated sun roof cables
189 Electrically operated sun roof switch
190 Electrically operated sun roof ideogram light
191 Electric sun roof control unit
192 Geared motor for electrically operated sun roof
193 Sun roof end of travel switch
194 Connection for sun roof cables
195 Connection for sun roof cables
216 Earths on engin
225 Anti-lock braking system cable coupling
227 Left front direction indicator
228 Right front direction indicator
231 Dipped beam headlamps remote control switch
232 7.5 A protective fuse for rear fog lamps
233 Engine cooling fan 2nd speed relay
234 25 A protective fuse for engine cooling fan
235 Current resistance restricter for engine cooling fan
236 Impulse generator for speedometer signal
246 Delay device for engine cooling fan
247 Relay for switching off air conditioning compressor
248 Thermistor for switching off air conditioning compressor
249 Threee stage pressure switch
250 Connection for air conditioner front cables
251 Connection for dashboard / air conditioner cables
252 Connection for dashboard / air conditioner cables
256 40A protective fuse for engine cooling fan
257 Relay for car interior fan 1st speed
258 Compressor switch
259 Current stealer terminal
260 Timing sensor
261 Ignition unit
262 Ignition coil unit
263 Ignition coil unit
264 Multiple relay
265 Heated Lambda sensor
266 Connection for heater/air conditioner cables

Cable colour code

A Light blue
B White
C Orange
G Yellow
H Grey
L Blue
M Brown
N Black
R Red
S Pink
V Green
Z Violet
AB Light blue-White
AG Light blue-Yellow
AN Light blue-Black
AR Light blue-Red
AV Light blue-Green
BG White-Yellow
BL White-Blue
BN White-Black
BR White-Red
BV White-Green
BZ White-Violet
CA Orange-Light blue
CB Orange-White
CN Orange-Black
GN Yellow-Black
GL Yellow-Blue
GR Yellow-Red
GV Yellow-Green
HG Grey-Yellow
HN Grey-Black
HR Grey-Red
HV Grey-Green
LB Blue-White
LG Blue-Yellow
LN Blue-Black
LR Blue-Red
LV Blue-Green
MB Brown-White
MN Brown-Black
NZ Black-Violet
RB Red-White
RG Red-Yellow
RN Red-Black
RV Red-Green
SN Pink-Black
VB Green-White
VN Green-Black
VR Green-Red
ZB Violet-White