






Chapter 13

Body electrical systems

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Degrees of difficulty

Easy , suitable for novice with little experience 	Fairly easy , suitable for beginner with some experience 	Fairly difficult , suitable for competent DIY mechanic 	Difficult , suitable for experienced DIY mechanic 	Very difficult , suitable for expert DIY or professional 
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Specifications

System

Type 12 volt, negative earth

Fuses

Mark/Ampere rating/Colour

BX and BX 14

F1/10/Red

F2/25/White

F3/25/White

F4/25/White

F5/25/White

F6/10/Red

F7/25/White

F8/20/Yellow

Protected circuits

Alternator. Reverse lamp. Idle cut-off and cooling fan relay coil

Econoscope. Indicators. Air blower. Engine oil level. Clock.

The following warning lamps:

Engine oil pressure

Fuel minimum level

Hydraulic fluid pressure and level

Coolant temperature

Coolant level

Choke

Battery charge

Emergency STOP

Brake pad wear indicator and handbrake

Windscreen wiper motor and washer pump. Rear window wiper motor

and washer pump. Relay coil and indicator lamp for heated rear

window. Stop-lamps. Rheostat and dashboard lighting. Ashtray light,

cigar lighter and heating control panel lighting. Front/rear window

winder relay coil. Horn

Door locking device (unit and motors)

Electric cooling fan

Hazard warning lamps

Rear door window winder

Side interior lights. Glove compartment and boot lights. Cigar lighter,

clock, radio and ashtray lighting

13•2 Body electrical systems

Fuses (continued)

Mark/Ampere rating/Colour

BX and BX 14 (continued)

F9/25/White
F10/20/Yellow
F11/5/Brown
F12/5/Brown

BX 16 and BX 19

F1/10/Red
F2/25/White

F3/25/White
F4/25/White
F5/30/White
F6/10/Red
F7/30/White
F8/20/Yellow
F9/30/White
F10/20/Yellow
F11/5/Brown
F12/5/Brown

All later models

F1/10/Red
F2/25/White
F3/25/White
F4/30/Green
F5/10/Red
F6/30/Green
F7/30/Green
F8/20/White
F9/30/Green
F10/5/Brown
F11/5/Brown
F12/5/Brown
F13/5/Brown

F14/10/Red*

*May be 25 amp White on later models

Protected circuits

Front door window winder
Heated rear window
Rear foglamps and warning lamp
Side and tail lamps. Number plate lamps. Side and tail warning lamp.
Clock attenuated lighting. Attenuated lighting for heated rear window and hazard warning switches

Coolant temperature flasher unit. Alternator. Reverse lamp.
Oil gauge unit. Cooling fan relay coil. Idle cut-off
Indicator. Air blower. Fuel gauge. Tachometer. Clock lighting.
The following warning lamps:

Fuel minimum level
Engine oil pressure
Hydraulic fluid level and pressure
Coolant temperature
Coolant level
Emergency STOP
Door locking device
Battery charge
Brake pad wear indicator and handbrake

Windscreen wiper motor and washer pump. Rear window wiper motor and washer pump. Heated rear window relay coil and indicator lamp.
Stop-lamps. Rheostat and lighting for dashboard, ashtray, cigar lighter and heater control. Front and rear window winder relay coil. Horn
Door locking device (unit and motors)
Electric cooling fan
Hazard warning lamps
Rear door window winders
Map reading (swivel) lamp. Side interior lamps. Boot and glove compartment lights. Cigar lighter and lighting. Clock. Radio.
Ashtray light
Front door window winder
Heated rear window
Rear foglamps. Rear foglamp warning light
Side, tail and number plate lamps. Side and tail warning lamp. Clock attenuated lighting. Attenuated lighting for hazard warning and heated rear window

Engine cooling fan relay coil, coolant level indicator unit, oil level control unit, tachometer, reversing lights, coolant temperature control unit
Air blower (and ventilation system), instrument panel
Heater fan speed control lighting, instrument panel lighting, stop-lights, cigar lighter, on-board computer, heated rear screen relay coil, rear wash/wipe, windscreen wash/wipe (and timer), "door not locked" symbol lighting (and warning lights), electric window relay coil, rear view mirror, sunroof, front seat spotlight, interior light timer unit
Engine cooling fan
Hazard warning lights
Electric rear windows
Glovebox lighting, on-board computer (+ direct supply), cigar lighter, supply socket, door locking, roof light and timer unit, boot lighting, radio electrical supply
Horn, heated rear screen
Electric window control unit
Rear foglights and warning light
RH tail light
LH tail light, rear number plate lights
Side and tail warning lights, sidelights, switch lighting, on board computer lighting, front foglight switch (and warning light, relay coil)
Hydraulic unit for ABS

Bulbs	Wattage
Headlamps (main/dip)	60/55
Direction indicators	21
Stop-lamps	21
Reverse lamps	21
Rear foglamps	21
Tail lamps	5
Number plate lamps	5
Sidelamps	4
Speedometer lamps	4
Interior lamps	7
Boot lamp	5
Heater control	1.2
Ashtray	1.2
Cigar lighter	1.2
Dashboard warning lamps	1.2
Switch warning lamps	1.2

1 General information and precautions

General information

The electrical system is of the 12 volt negative earth type and comprises a 12 volt battery of which the negative terminal is earthed, an alternator which is driven from the crankshaft pulley, a starter motor and related electrical accessories, components and wiring.

The battery supplies a steady amount of current for the ignition, lighting and other electrical circuits and provides a reserve of electricity when the current consumed by the electrical equipment exceeds that being produced by the alternator.

The alternator is controlled by a regulator. This ensures a high output if the battery is in a low state of charge or the demand from the electrical equipment is high. Alternatively, it ensures a low output if the battery is fully charged and there is little demand for the electrical equipment.

An on-board computer system is fitted to BX 19 models, being located in the floor console forward of the gear lever. This system has fifteen possible functions, the main ones being to log petrol consumption, average speed, journey time elapsed and the estimated time of arrival, plus the range possible on the remaining fuel. The main system components are the computer unit, the distance sensor and the fuel output sensor.

From late 1986, all models are equipped with a dim-dip lighting system to comply with UK regulations. The function of the system is to prevent the vehicle being driven with only the sidelights illuminated. This system uses a relay-controlled resistor circuit. When the sidelights are on (ignition also on), the headlights are automatically illuminated at approximately one-sixth their normal dipped beam power.

Further details of the various systems are given in the relevant Sections of this Chapter. While some repair procedures are given, the

usual course of action is to renew the component concerned. The owner whose interest extends beyond mere component renewal should obtain a copy of the 'Automobile Electrical & Electronic Systems Manual', available from the publishers of this manual.

Precautions

It is necessary to take extra care when working on the electrical system to avoid damage to semi-conductor devices (diodes and transistors) and to avoid the risk of personal injury. In addition to the precautions given in the "Safety first!" Section at the beginning of this manual, take note of the following points when working on the system.

- a) Before disconnecting any wiring or removing components, always ensure that the ignition is switched off.
- b) Disconnect the battery leads before using a mains charger.
- c) Do not reverse the battery connections. Components such as the alternator or any other having semi-conductor circuitry could be irreparably damaged.
- d) If the engine is being started using jump leads and a slave battery, connect the batteries positive to positive and negative to negative. This also applies when connecting a battery charger.
- e) Never disconnect the battery terminals or alternator multi-plug connector when the engine is running.
- f) The battery leads and alternator multi-plug must be disconnected before carrying out any electric welding on the vehicle.
- g) Never use an ohmmeter of the type incorporating a hand cranked generator for circuit or continuity testing.
- h) When carrying out welding operations on the vehicle using electric welding equipment, disconnect the battery and alternator.
- i) When fitting electrical accessories it is important that they are connected correctly, otherwise serious damage may result to the components concerned.

Items such as radios, tape recorders, electronic ignition systems, electronic tachometers, automatic dipping etc, should all be checked for correct polarity.

2 Fuses and relays - location and renewal



Note: Always renew a fuse with one of similar rating and never renew it without finding the source of trouble

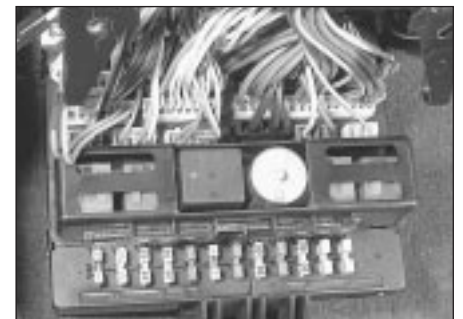
1 The fuse/relay box is located under the lower trim panel on the passenger side.

2 The circuits protected by the fuses, together with their colour and rating, are given in *Specifications*.

3 Access to the fuses is gained by pulling the release handle and swinging the box down (see illustration).

4 Always renew a fuse with one of similar rating and never renew it more than once without finding the source of trouble. If necessary, refer to the wiring diagrams at the end of this Chapter.

5 Relay units rarely give problems but they can easily be renewed by pulling them from their location in the box. The relay units and their functions are also shown in the wiring diagrams at the end of this Chapter. Some relay units are connected in-line and are separate from the main fuse/relay box unit.



2.3 The fuse and relay box



2.6 Fuel injection system relays (BX 19 GTi with Bosch LE3 Jetronic fuel injection)

6 On BX 19 GTi models, further relay units are located in the engine compartment, under a plastic cover (see illustration).

7 If suspect, these units should be checked by a Citroën dealer. They are easily renewed by detaching the wiring connector and then unscrewing the retaining bolt.

3 Exterior lights - removal, refitting and bulb renewal



Caution: Avoid touching the glass envelope of a halogen bulb. Failure to do this may result in premature bulb failure.

Headlights

Bulb renewal

1 The bulbs are renewed from the rear of the headlamp unit, access being from the engine compartment.



3.4 Align the headlamp bulb



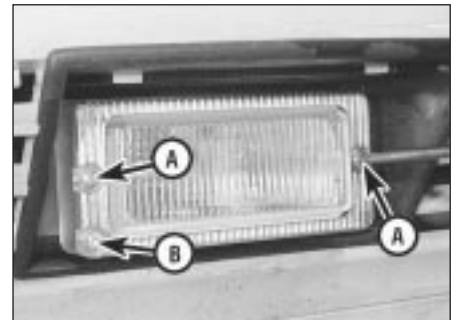
3.2a Disconnect the wiring connector . . .



3.2b . . . and remove the headlight bulb



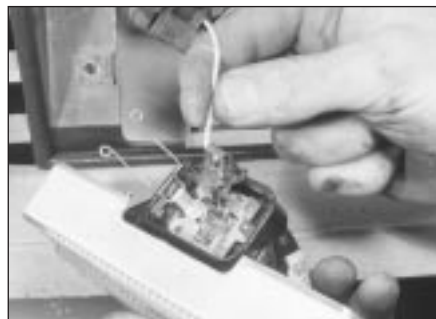
3.6 Headlamp ball and socket mounting



3.9 Front foglight retaining screws (A) and adjuster screw (B)



3.10 Disconnecting the foglight wiring



3.11 Extracting the front foglight bulb



3.13 Withdraw the front indicator unit . . .

2 Pull free the wiring connector, release the bulb retaining clip and withdraw the bulb (see illustrations).

3 Where halogen bulbs are fitted, do not touch the glass with your fingers or with a fluffy cloth. Allow the bulb to cool before removing it. If the glass is inadvertently touched, clean it with methylated spirit.

4 Refitting is a reversal of removal. When inserting the bulb, it must be correctly aligned with the location notches (see illustration). Check the headlights for satisfactory operation and alignment on completion.

Removal and refitting

5 Raise the bonnet, and pull free the headlamp wiring connector and the sidelight bulbholder.

6 The headlamp unit can then be carefully prised from its ball and socket adjustable mountings (see illustration).

7 Refitting is a reversal of removal. Check lamp operation and alignment on completion.

Front foglights

8 Disconnect the battery earth lead.

9 Undo the retaining screws and remove the light unit (see illustration).

10 Detach the wiring and withdraw the cover (see illustration).

11 Release the retaining clip and extract the bulb (see illustration).

12 Refit in the reverse order of removal (avoid touching the new bulb glass with your fingers), then check for satisfactory operation and adjustment. If required, the light beam can be adjusted by turning the adjuster screw.

Front indicators

13 Reach down within the engine compartment and press the front indicator unit retaining tabs to release the unit from the front wing panel (see illustration).

14 Withdraw the bulb holder from the indicator unit and withdraw the bulb (see illustration).



3.14 ... and extract the bulb holder



3.16 Sidelight bulb removal



3.19 Removing the bulb holder from the rear lens unit (Hatchback)



3.22 Rear light assembly (Estate)



3.25 Number plate light unit shown with access cover removed from trim panel (Hatchback)

15 Refit in the reverse order of removal. Press the indicator unit fully into position, ensuring that the retaining tabs clip home fully. Check the operation of the indicators.

Sidelights

16 This bulb is located in the rear of the headlight unit, directly underneath the headlight bulb. Pull free the bulbholder, complete with wiring connections, from the headlamp unit then withdraw the bulb from its holder (see illustration).

17 Refit in the reverse order to removal and check the operation of the sidelights.

Side repeater lights

18 To renew the bulb, carefully twist the lens anti-clockwise and withdraw the light unit from the wing. Take care not to allow the wiring to fall back inside the wing. Pull the bulbholder from the back of the light unit for access to the bulb.

Rear combination lights

Hatchback

19 Press the lens forwards with one hand and simultaneously reach within the luggage compartment and release the unit retaining clip by pinching it firmly. The lens, complete with the combination bulbholder unit, can then be withdrawn from the vehicle and separated from access to the bulbs by pressing the retaining catch (see illustration).

20 Withdraw the defective bulb and renew it.
21 Refit in the reverse order of removal. Ensure that the retaining catch and clip are

securely engaged and check the operation of the respective lights in the unit.

Estate

22 Raise the tailgate and remove the lens securing screws. Note the positioning lug at the base of the lens (see illustration). Lower the lens slightly and pull it away from the bulbs.

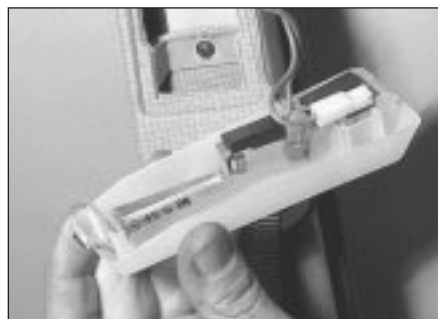
23 To refit the lens, engage the lower lug at the bottom and secure with the retaining screws.

Number plate light

Hatchback

24 Raise the tailgate and prise free the square cover from the trim panel adjacent to the light unit.

25 Reach through the trim aperture and withdraw the bulb (see illustration).



4.2 Interior dome lamp festoon bulb and wiring connections

26 Refit in the reverse order of removal and check the light for satisfactory operation.

Estate

27 Unscrew the fixing screw and pull the assembly from the tailgate.

28 The lens is clipped to the bulbholder and must be removed to renew the bulb.

29 Refitting is a reversal of removal.

4 Interior lights - bulb renewal



Interior light

Dome type

1 Prise free the lens unit from its aperture and withdraw the light unit.

2 Ease the festoon bulb free from the terminal springs (see illustration).

3 Refitting is a reversal of removal.

Map lamp type

4 Undo the four retaining screws and remove the roof console. On some types, the light unit is secured by spring clips. In this case prise free the unit (see illustrations).

5 Note that to remove the roof console complete, it will be necessary to detach the sunroof control switch wiring as well as the map reading light wiring (where applicable).

6 Ease the festoon bulb free from the terminal springs (see illustration).

7 Refit in the reverse order of removal.



4.4a Map reading light switch and roof console retaining screw (arrowed)



4.4b Map reading light/
sunroof console removed



4.4c Removing the map reading light bulb



4.6 Interior map lamp bulb - festoon type



4.10 Luggage compartment light unit



4.14 Heater control panel bulb (arrowed)

6 Horn - maintenance

- 1 The horn, located near the air inlet grille above the front bumper, should not require any attention or adjustment throughout its life.
- 2 Provided the circuit fuse and operating switch are in good order, any fault must be in the wiring, the earth bond or the unit itself.
- 3 A weak or intermittent horn signal may be due to a corroded support bracket connection. Unbolt the horn and scrape the bracket and body contact faces clean.

7 Instrument panel - removal and refitting

Early models

- 1 Disconnect the battery earth lead.
- 2 Prise free and lift clear the inspection panel above the instrument panel (see illustration).
- 3 Unscrew and remove the upper fixing screws (see illustration).
- 4 Undo the two screws on the underside of the steering column and remove the top cover (see illustration).
- 5 Unscrew and remove the lower panel fixing bolts from the positions marked by the outer arrows.
- 6 Disconnect the wiring multi-connectors and the speedometer cable from the instrument panel and carefully withdraw the panel unit.

Glovebox

- 8 Prise free the lens then ease the festoon bulb from the terminal springs.
- 9 Refit in the reverse order of removal.

Luggage compartment

- 10 Prise free the light unit then ease the festoon bulb from its terminal springs (see illustration).
- 11 Refit in the reverse order of removal.

Heater control panel and ashtray

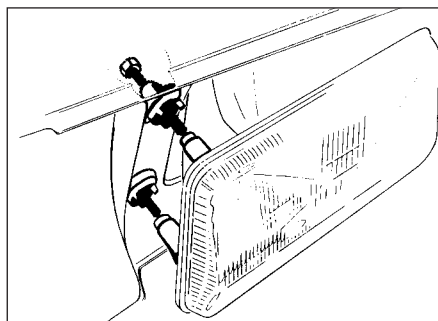
- 12 Remove the ashtray and pull free the heater control knobs from their levers.
- 13 Undo the two screws and remove the ashtray support and heater control panel.
- 14 The bulbs are now accessible and can be withdrawn from their holders as required (see illustration).
- 15 Refit in the reverse order of removal.

Instrument panel

- 16 Remove the instrument panel unit. The bulb(s) can then be withdrawn and inspected/renewed as required.

5 Headlamps - alignment

- 1 Accurate headlamp alignment should be carried out by a Citroën garage. However, in an emergency the following procedure will provide an acceptable light pattern.



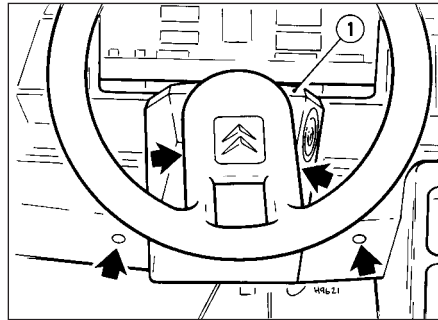
5.4 Headlamp adjustment screws



7.2 Instrument panel inspection cover
removal



7.3 Remove the instrument panel upper fixing screws (arrowed)



7.4 Remove the fixing screws (arrowed) on the top cover



7.7 Bulb holder removal from the instrument panel

7 To renew the instrument panel bulbs, untwist and withdraw the bulb holders and extract the bulb (see illustration).

8 The instrument panel main body can be detached from the front section by undoing the four retaining screws. Take care not to damage the printed circuits.

9 Further dismantling of the instrument panel is not recommended. If any item in the instrument cluster is malfunctioning, have the unit checked by your Citroën dealer.

10 Refitting is a direct reversal of the removal procedure. If a new vent is being fitted, check that the captive nuts are in position for the lower retaining bolts. Ensure that all wiring connectors are securely made. On completion check the operating of the various instrument panel functions.

Later models

11 Disconnect the battery earth lead.

12 Undo the single screw each side and remove the trim panel located between the instrument panel and the steering column upper shroud (see illustration).

13 Undo the two screws and withdraw the clock/upper fascia tray (see illustration). Disconnect the wiring connector and remove the tray.

14 Release the switch panel (located on the right-hand side of the fascia) by reaching up behind and depressing the retaining clips each side (see illustration). Withdraw the panel as far as possible to allow access through the aperture.

15 Undo and remove the two instrument panel retaining screws from the front lower edge of the panel (see illustration).

16 Reach through the clock/upper fascia tray aperture and, using an 11 mm spanner, undo the upper left-hand instrument panel retaining

nut. The "spire" type nut is threaded onto a plastic stud at the rear of the instrument panel. Later models have wing nuts. Working through the right-hand side switch panel aperture, undo the right-hand side upper retaining nut using the same procedure (see illustrations).

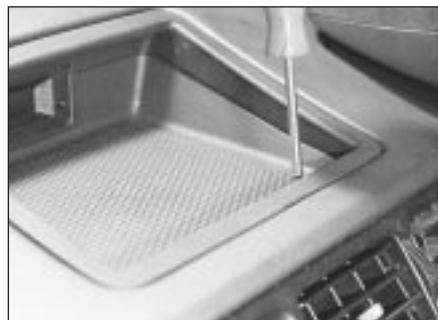
17 Partially withdraw the instrument panel until the wiring connecting plugs can be detached and the speedometer cable disconnected. To do this, pull the sleeve on the connector away from the speedometer head. To reconnect, simply push the sleeve towards the speedometer (see illustrations).

18 The various instrument panel bulbs and their holders are easily accessible in the rear face of the unit. Untwist the holder, and then remove the bulb from it. Take care not to damage the printed circuit on the rear face of the panel.

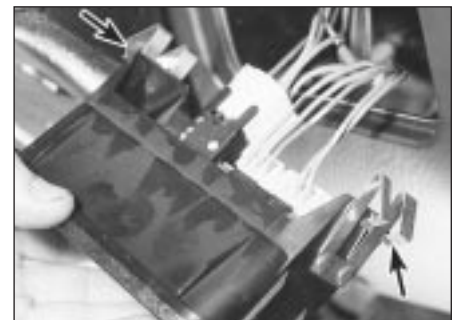
19 To remove the instrument panel from the



7.12 Unscrewing a trim panel retaining screw



7.13 Unscrewing a clock/upper fascia tray securing screw



7.14 Withdrawing the switch panel - retaining clips arrowed



7.15 Instrument panel lower retaining screw



7.16a Working through the fascia aperture with a spanner . . .



7.16b . . . to remove an instrument panel retaining nut



7.17a Instrument panel wiring connectors



7.17b Speedometer cable connector



8.2 Removing a facia switch

surrounding facia panel, remove the two side screws, and prise free the two clips from the pegs at the lower rear face. Separate the instrument panel from the facia panel.

20 If removing the surrounding facia panel, disconnect the wiring from the four switches, noting the wiring locations given below.

- a) Grey - to the heated rear window switch.
- b) Black - to the hazard warning switch.
- c) Yellow - to the rear window washer/wiper.
- d) Blue - to the rear foglight switch.

21 Refitting of both the instrument panel and its surround is a reversal of the removal procedure. Check the operation of the various switches and controls on completion.

8 Instrument panel facia switches (later models) - removal and refitting



- 1 Disconnect the battery earth lead.
- 2 Although it is possible to remove a switch from the facia with it *in situ*, we found it difficult due to the lack of access to the retaining clips on each side of the switch. It may be easier to remove the facia and then push out the switch from the rear whilst compressing the clip each side (see illustration).
- 3 Detach the wiring connector from the switch and remove it.
- 4 Refit in the reverse order of removal.

9 Steering column switches - removal and refitting



Early models

- 1 Disconnect the battery earth lead.
- 2 Although their functions differ, the switch controls on each side of the steering column are identical. The accompanying illustrations show the removal of the right-hand switch unit but the instructions apply to both the right and left-hand switch units.

Windscreen wiper/washer and horn control

- 3 Carefully prise free the centre panels and remove them (see illustration).
- 4 Unscrew the two retaining screws and withdraw the three control switches (see illustrations).



9.3 Removing a central panel



9.4a Remove the two retaining screws (arrowed) . . .



9.4b . . . withdraw the central switch unit . . .



9.4c . . . and selector control unit



9.4d Remove the upper . . .



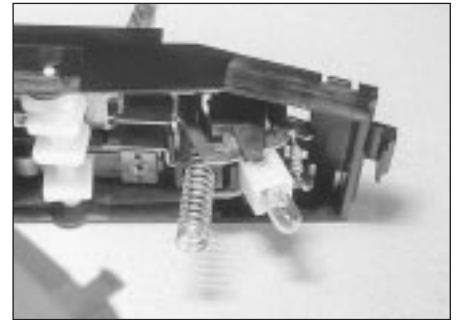
9.4e . . . and lower switch units



9.5 Withdrawing the multi-connector panel



9.8 Removing the rear window demister switch



9.9 Switch warning bulb location



9.12 Detaching the wiring plug from the instrument lighting rheostat



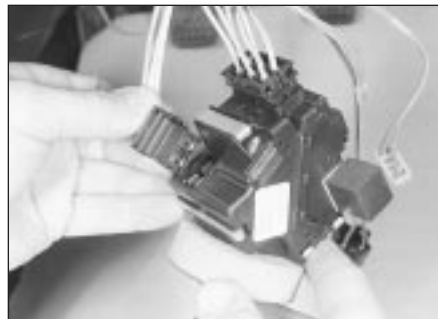
9.13a Removing the steering column upper shroud



9.13b Removing the steering column upper shroud side panel



9.14a Removing a steering column switch



9.14b Steering column switch wiring connectors

15 Refitting is a reversal of the removal procedure. Check the switches for satisfactory operation on completion.

10 Door courtesy and boot light switches - removal and refitting



Door courtesy

- 1 Disconnect the battery earth lead.
- 2 Open the door then undo the switch retaining screw. Pull the switch from the pillar and detach the wires (see illustration).
- 3 Refit in the reverse order of removal.

Boot light

- 4 Disconnect the battery earth lead and open the tailgate.



10.2 Door courtesy light switch retaining screw

5 If required, the switch multi-connector panel can be withdrawn, together with the wires, after detaching the wiring connectors from the main loom (see illustration).

6 Any switch that is defective must be renewed.

7 Refitting is a reversal of the removal procedure. Check the various switch functions on completion for satisfactory operation.

Hazard and rear window demister

8 Use a thin-bladed screwdriver to prise free the switch from its leading edge (the pivot end), then withdraw the switch (see illustration).

9 If the switch warning bulb is to be renewed, carefully prise the outer section away from the inner section and then withdraw the bulb (see illustration).

10 Refitting is a reversal of the removal procedure. Check the switch(es) for satisfactory operation on completion.

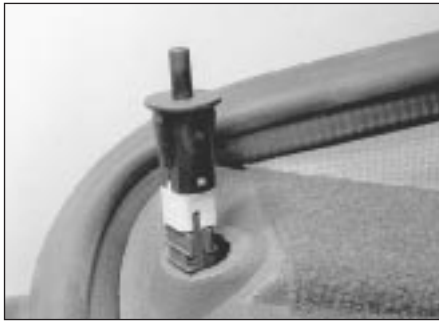
Later models

11 Disconnect the battery earth lead.

12 Undo the seven retaining screws and remove the column lower shroud. As it is withdrawn, detach the wires from the instrument lighting rheostat and relay unit (see illustration).

13 Undo and remove the column upper mounting nuts, then loosen the lower mounting bolts to lower the column enough to allow the upper shroud to be removed. The upper shroud has a detachable side panel which is removed sideways by withdrawing it from the windscreen wiper control stalk (see illustrations).

14 To remove either of the column switches, undo the retaining screws and remove them from the brackets. Detach the wiring connectors from the switches (see illustrations).



10.5 Boot light switch unit removal

5 Reaching up from the underside of the switch, compress the retaining clips and push the switch upwards through its location aperture (see illustration).

6 Detach the wiring connector and remove the switch.

7 Refit in the reverse order of removal.

11 Electrically-operated window switches - removal and refitting



- 1 Disconnect the battery earth lead.
- 2 Carefully prise free the switch from the handbrake console. Withdraw the switch and disconnect the wiring (see illustration).
- 3 Refit in the reverse order to removal.

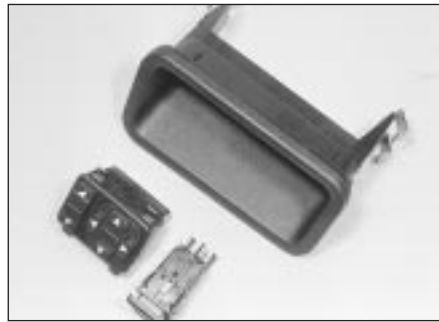
12 Front foglight and mirror switches (BX 19 models) - removal and refitting



- 1 Disconnect the battery earth lead.
- 2 Reach up behind the facia panel, depress the combined switch panel retaining clip each side and push the panel out of its recess in the facia.
- 3 Disconnect the wiring connector from the rear of the appropriate switch, then push the switch unit(s) out of the panel. The foglight switch has retaining clips which must be depressed to allow its removal (see illustrations).
- 4 Refit in the reverse order of removal. If



11.2 Electric window operating switch removal



12.3b Front foglight and electric mirror switches and panel

preferred, the panel can be fitted first then the switches connected and pushed into position (see illustration).

13 Handbrake warning switch - removal and refitting



- 1 Disconnect the battery earth lead.
- 2 Prise free the cubby from the rear end of the handbrake lever console. Reach through the cubby aperture and undo the console retaining nut at the rear (see illustration).
- 3 Remove the rubber grommet and undo the console retaining bolt at the front (see illustration). Lift the console clear, disconnecting the wires to any console mounted switches (where applicable) and note their connections.
- 4 Withdraw the handbrake lever console.



12.3a Disconnecting the wiring from the front foglight switch



12.4 Refitting the front foglight switch

5 Detach the wiring connector from the handbrake warning light switch, compress the retaining clips and withdraw the switch from its mounting bracket (see illustration).

6 Refitting is a reversal of the removal procedure. Check the operation of the switch on completion.

14 Cigar lighter - removal and refitting



Early models

- 1 Disconnect the battery earth lead.
- 2 Remove the radio.
- 3 The cigar lighter bulb is contained in a shuttle housing on the side of the cigar lighter unit. Withdraw the bulb holder. Extract the bulb if this is to be renewed.



13.2 Handbrake console retaining nut (arrowed)



13.3 Console retaining bolt (arrowed)



13.5 Handbrake warning light switch



14.4 Cigar lighter with bulb and wiring connector detached



14.7 Centre vent grille retaining clip (grille removed for clarity)



14.8 Withdrawing the grille panel

- 4 Disconnect the wiring connector from the cigar lighter then compress the retaining clips and withdraw the lighter unit (see illustration).
- 5 Refit in the reverse order of removal.

Later models

- 6 Disconnect the battery earth lead.
- 7 Using a suitable screwdriver as a lever, pass it through the centre vent grille on the right-hand side and depress the grille panel retaining clip whilst pulling on the panel (see illustration).
- 8 With the grille panel withdrawn from the fascia (see illustration), detach the wiring from the cigar lighter, compress the retaining clips and withdraw the lighter unit from the panel.
- 9 Refit in the reverse order of removal.

15 Clock - removal and refitting

- 1 Disconnect the battery earth lead.
- 2 Undo the retaining screws and remove the clock/upper fascia tray.
- 3 To remove the clock illumination bulb, twist and remove the holder, then withdraw the bulb from it.
- 4 To remove the clock unit, detach the wiring connector, then unclip and remove the clock from the tray (see illustration).
- 5 Refit in the reverse order of removal and reset the clock on completion.

17 Wiper blade - renewal

- 1 Lift the wiper arm away from the windscreen.
- 2 With a small screwdriver, release the plastic lug and withdraw the wiper blade from the arm (see illustration).
- 3 Refitting is a reversal of removal.

18 Wiper arm - removal and refitting

- 1 Make sure that the wiper motor is stopped in the parked position. Using a felt tipped pen, make an alignment mark of the wiper blade position on the screen when in the parked position.
- 2 Disconnect the cleaning fluid hose from the nipple on the pivot by pulling it free (see illustration).
- 3 Lift the cover from the securing nut then unscrew the nut (see illustration) and prise the arm from the spindle with a wide-bladed screwdriver. Take care not to damage the paintwork.
- 4 Refitting is a reversal of removal. Align the



15.4 Clock unit rear detail - unclip to remove



17.2 Wiper blade removal from arm

16 Speedometer cable - removal and refitting

- 1 Disconnect the speedometer drive cable from the rear of the speedometer after sliding back the plastic locking sleeve. The instrument panel will have to be partially withdrawn for access to the connector.
- 2 Disconnect the cable from the transmission by pulling out the tapered rubber cotter pin. Before withdrawing the cable any further, note how it is routed within the engine compartment as the new cable must be installed in identical fashion to ensure correct operation.



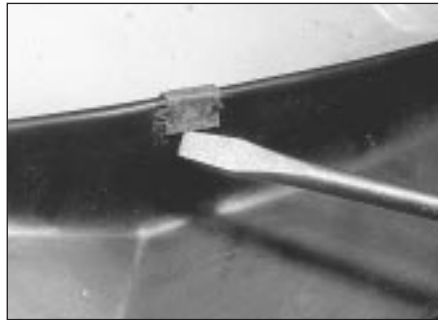
18.2 Detach the washer hose . . .



18.3 . . . and unscrew the wiper arm retaining nut



19.3a Peel back the cover seal . . .



19.3b . . . and prise free the cover clips



19.4 Detach the wiring connector from the wiper motor



19.5 Wiper arm pivot nut



19.6a Wiper motor retaining bolt (arrowed)



19.6b Wiper motor linkage arm spring clip (arrowed)

wiper arm and blade with the temporary alignment marking on the windscreen/rear window. On completion, wipe the alignment mark clean with a dampened cloth and check the operation of the wiper.

19 Windscreen wiper motor - removal and refitting

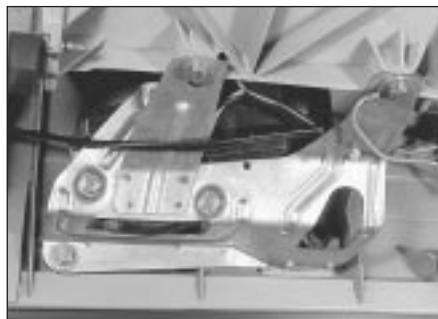


- 1 Disconnect the battery earth lead.
- 2 Remove the wiper arm.
- 3 Raise and support the bonnet. The wiper motor is located in the body cavity above the engine compartment bulkhead (directly in front of the windscreen) under a plastic cover. Remove the plastic cover by peeling back the rubber seal along its leading edge and prising free the retaining clips (see illustrations).
- 4 Disconnect the wiring connector from the wiper motor (see illustration).
- 5 Unscrew and remove the wiper arm pivot nut (see illustration).
- 6 Unscrew the wiper motor mounting bracket retaining bolts and the linkage nut (see illustration). Alternatively, prise free the spring clip and release the linkage arm from the cranked connecting arm pivot but take care not to lose the spring clip (see illustration). Withdraw the wiper motor.
- 7 Refit in the reverse order to removal. On completion, check the windscreen wiper for satisfactory operation.

20 Rear window wiper motor - removal and refitting



- 1 Disconnect the battery earth lead.
- 2 Remove the rear wiper arm and blade.
- 3 Raise the tailgate and remove the trim panel from it by carefully prising free the plastic retaining clips.
- 4 Unscrew and remove the wiper motor mounting bracket bolts, noting the earth lead located under the head of one of the bolts (see illustration).
- 5 Undo the wiper arm pivot nut and lower the motor and bracket away from the tailgate.
- 6 Disconnect the wiring from the wiper motor and the wiring location clip from the bracket.
- 7 Unbolt and remove the motor from the mounting bracket.
- 8 Refitting is a reversal of removal. Check the wiper for satisfactory operation on completion.



20.4 Rear window wiper motor

21 Rear window heater element - maintenance and repair



- 1 The heating elements applied to the glass interior surface should be treated with respect.
- 2 Clean the glass only with warm water and detergent and wipe in the direction of the element lines. Take care not to scratch the elements with rings on the fingers or by careless stowage of luggage.
- 3 Do not stick labels over the elements.
- 4 To repair a break in the element, use one of the conductive paints which are now readily available from motor accessory stores. Follow the manufacturer's instructions carefully.

22 Windscreen and rear window washer units - removal and refitting



Early models

- 1 These units are located each side at the rear of the engine bay.
- 2 The pump unit is integral with the filler cap (see illustration).
- 3 Should the pump fail to operate, check there is sufficient fluid in the reservoir and that the suction and supply hoses are securely connected and clear.
- 4 Check that the wiring connections are secure. A test light can be used to check the wiring continuity at the pump terminals.



22.2 Washer unit filler cap/pump unit

- 5 If the pump is defective, renew by detaching the wiring and the suction and supply pipes.
- 6 The reservoir can be removed by withdrawing the cap/pump unit, releasing the retaining clip and lifting the unit out.
- 7 Refit in the reverse order of removal and check for satisfactory operation.

Later models

8 Although the location and general details concerning the washer reservoir units remain the same as earlier models, the reservoir pump units are now separate, mounted on the side of the reservoirs rather than being an integral part of the cap as with earlier models.

23 Electrically-operated window regulator units - removal and refitting



- 1 Disconnect the battery earth lead.
- 2 Remove the door trim panel.
- 3 Detach the wiring connectors from the regulator wiring and release the regulator wires from the nylon retaining clip (see illustration).
- 4 Support the door window, then unscrew the five regulator-to-door retaining nuts and the two nuts securing the lower channel to the door.
- 5 Slide the regulator rearwards and disengage it from the window channels then remove it through the inner door panel aperture.
- 6 Refit in the reverse order of removal. Check that the wiring is correctly located and routed so that it will not interfere with the window movement. Check that the window regulator action is satisfactory before refitting the door trim panel.

24 Remote control door locking system - component renewal



Control unit battery

- 1 The control unit is located next to the handbrake lever. It is accessible after removing the handbrake console.
- 2 To renew the batteries, depress the battery holder retaining clip each side and withdraw the holder. The batteries can be extracted and



23.3 Electric window regulator unit and wiring connections

removed but ensure that the correct battery type is used (battery reference V13GA).

Receiver unit

- 3 The receiver unit is located in the roof console. It is not repairable, and if suspect, must be renewed. Prise free the inspection panel from the roof console, detach the wiring from the receiver unit then unclip and remove the receiver (see illustration).
- 4 Refitting is a reversal of removal. Check for satisfactory operation on completion.

25 Central locking door solenoid unit - removal and refitting



Side door

- 1 Disconnect the battery earth lead.
- 2 Remove the door trim.



25.3 Wiring connections to door lock solenoid (central locking)



25.9 Lock barrel and retaining clip (central locking)



24.3 Removing the remote control door locking receiver unit

- 3 Disconnect the wiring connectors from the end of the solenoid unit (see illustration).
- 4 Undo the solenoid bolts, detach the solenoid unit from the inner door panel then disengage it from the lock control rod. Withdraw the solenoid unit through the inner door aperture.
- 5 Refit in the reverse order of removal. Check the operation of the lock on completion.

Tailgate

- 6 Disconnect the battery earth lead.
- 7 Raise the tailgate and remove the trim panel from it by carefully prising free the retaining clips.
- 8 Detach the wiring connector from the solenoid unit (see illustration).
- 9 Prise the retaining clip free from the lock barrel (see illustration).
- 10 Undo the retaining bolts and remove the lock solenoid unit (see illustration).
- 11 Refit in the reverse order to removal.



25.8 Wiring connector to the tailgate solenoid (central locking)



25.10 Tailgate central locking solenoid and lock unit



26.3 Removing the door warning panel



26.4 Removing the bonnet-open warning switch

26 Door-open warning panel - removal and refitting



- 1 Disconnect the battery earth lead.
- 2 Tilt, pull and withdraw the coin tray for access to the retaining clip on the left side of the door warning panel.
- 3 Release the door warning panel retaining clip, then withdraw the panel (see illustration). To renew a warning bulb, twist and remove the holder from the rear face of the panel, then withdraw the bulb. To remove the panel completely, pull free the wiring multi-connector.
- 4 As well as indicating if any of the doors are open, this warning panel will also indicate if the bonnet and tailgate are not closed properly. If required, the bonnet warning switch can be removed by carefully prising it free from its aperture (see illustration) and the wiring disconnected.
- 5 Refitting is a reversal of the removal procedure. Check for satisfactory operation on completion.

27 Electrically-operated sunroof motor - removal and refitting



- 1 Disconnect the battery earth lead.
- 2 Undo the four retaining screws and lower the roof console.
- 3 Disconnect the wiring from the motor/reducer unit, noting their connections.
- 4 Undo the retaining screws and partially withdraw the motor/reducer unit so that the operating cables can be detached, then fully remove the motor unit.
- 5 Refitting is a reversal of the removal procedure. Before refitting the roof console, check the operation of the sunroof and make any adjustments necessary.

28 Radio/cassette - removal and refitting



Early models

- 1 Disconnect the battery earth lead.
- 2 Remove the ashtray from its holder and pull free the heater control lever knobs.
- 3 Undo the two screws from the ashtray holder, remove the holder plate and heater control mounting plate (see illustration).
- 4 Undo the two diagonally opposed screws securing the centre fascia at the heater control (see illustration).
- 5 Remove the retaining screws and remove the lower trim panel on the passenger side.
- 6 Remove the retaining screws and remove the steering column lower shroud.
- 7 Undo the single retaining screw on the passenger side and the two retaining screws on the driver's side which secure the centre fascia unit. Withdraw the fascia unit and disconnect the wiring to the heater control lights, the cigar lighter and the radio/cassette. Disconnect the radio aerial.
- 8 The fascia unit can now be removed and the radio/cassette retainers (depending on type) released from the rear side to allow the unit to be withdrawn.
- 9 Refit in the reverse order of removal. Ensure that the wiring and aerial connections are securely made.
- 10 If fitting a new radio/cassette unit, the aperture in the fascia will take any standard-sized equipment.



28.3 Ashtray holder/heater control plate retaining screws (arrowed)

11 The radio must be connected to a power source, the aerial and loudspeaker leads must be plugged in and a good earth bond made between the receiver and a metal part of the vehicle.

12 Once installed, the aerial will have to be trimmed using the small screw provided in the receiver. Tune in to a weak station on the medium wave band and turn the screw until the reception is at its loudest and clearest.

Later models

13 Depending on model, later variants are fitted with a wiring harness and connections for a stereo or a six-speaker radio system, even though the radio and speaker units may not be fitted as standard (see illustration).

14 With the stereo system, there are facilities provided in each front door panel for speaker fitting, the wiring being already provided. The speaker grille can be removed from the door panel by prising it free using a screwdriver as a lever (see illustration).

15 When refitting the grille to the door, locate it at the bottom edge and press it into position at the top.

16 The six-speaker system has a speaker (tweeter) at each end of the dashboard, one speaker in each front door and one each side at the rear, either in the rear quarter panel or above the wheel arches (Estate model). Headphone sockets and an accessories jack may be fitted to the rear face of the centre console, for use by rear passengers. Note that the headphone sockets will only work when the rear speakers are fitted and connected.

29 Speakers (standard) - removal and refitting

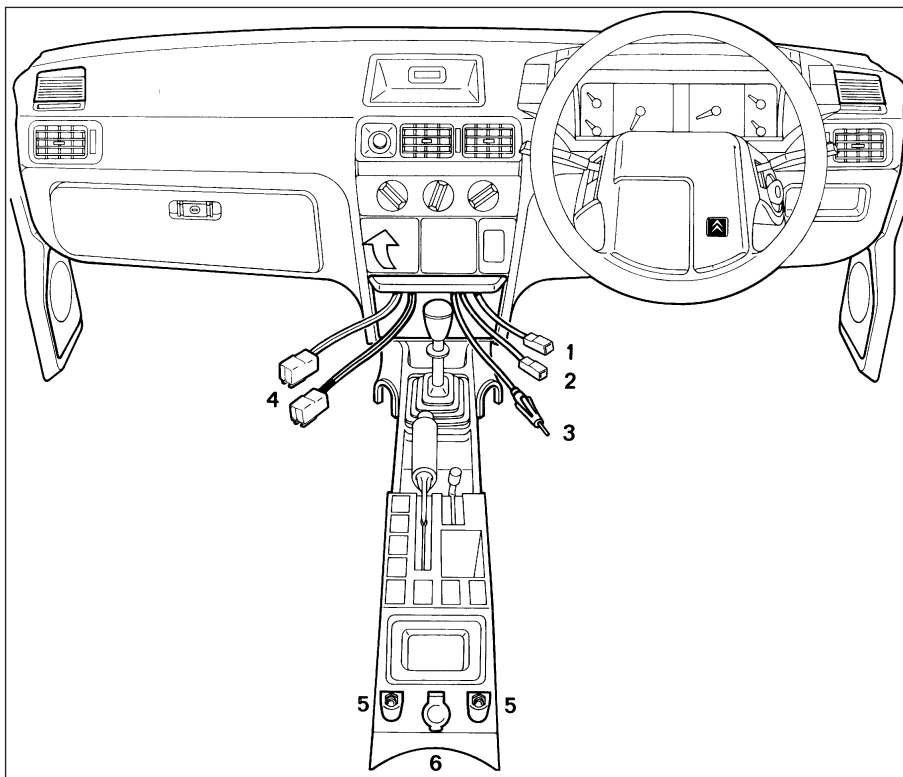


Facia mounted - upper

- 1 Carefully prise free the grille panel from the top of the fascia on the side concerned.
- 2 Undo the two retaining screws and withdraw the speaker unit. Disconnect the leads (see illustration).
- 3 Refit in the reverse order of removal.



28.4 Remove the panel screws indicated



28.13 Later radio and speaker wiring connections

- | | |
|---|--|
| 1 Radio supply - grey wire/red connector | 4 Stereo speaker system - two white connectors: |
| 2 Radio earth - yellow wire/brown connector | One green wire to left channel* |
| 3 Aerial coaxial cable | One brown wire to right channel* |
| 4 Six-speaker system - four white connectors (two shown): | Black tracer negative/red tracer positive |
| Two green wires to left channel | 5 Headphone stereo jacks** |
| Two brown wires to right channel | 6 Accessories jack (12 volt, 10 amp) |
| Black tracer negative/red tracer positive | * Speaker wiring to each front door |
| | ** Six-speaker system only (with rear speakers fitted) |

Facia mounted - lower

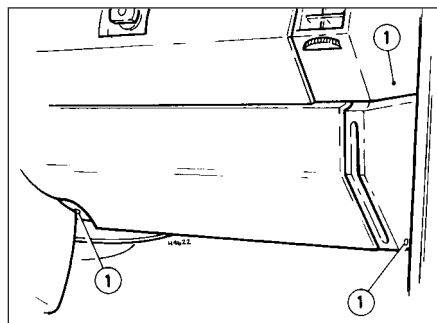
- 4 Unscrew the retaining screws from the positions shown (see illustration) and withdraw the lower trim panel and the glove compartment.
- 5 Undo the retaining screws and lower the speaker unit. Detach the wiring connector.
- 6 Refit in the reverse order of removal.



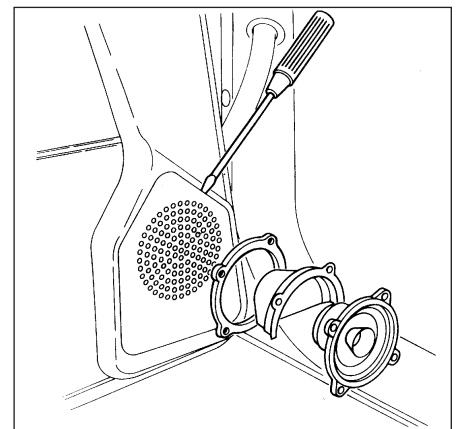
29.2 Facia-mounted speaker (upper) shown with grille panel removed

30 Wiring diagrams

The wiring diagrams in this Manual represent typical examples of those available. To assist in using the diagrams, there



29.4 Remove the lower trim panel screws indicated



28.14 Using a screwdriver to prise a radio speaker grille from the door

follows an explanation of the various letters and their use in conjunction with the wiring diagram keys:

- a) Large numbers - identify the various components.
- b) Capital letters printed in the middle of a wire - indicate which harness the wire is located in.
- c) Small letters located at the connection points - indicate colour, either of the wires (which have an "F" prefix), of the end fitting, of the marking on the wire, or a combination of any two. For example, F.BI is a blue wire, Mv is a mauve marking, and F.J.Ve is a yellow wire with a green marking.
- d) Connecting blocks - the first number and the letters inside the boxes indicate the size and colour of the connecting block. Note that due to lack of space, 0 is used to denote 10. The last number gives the relative location of the relevant wire in that connecting block.

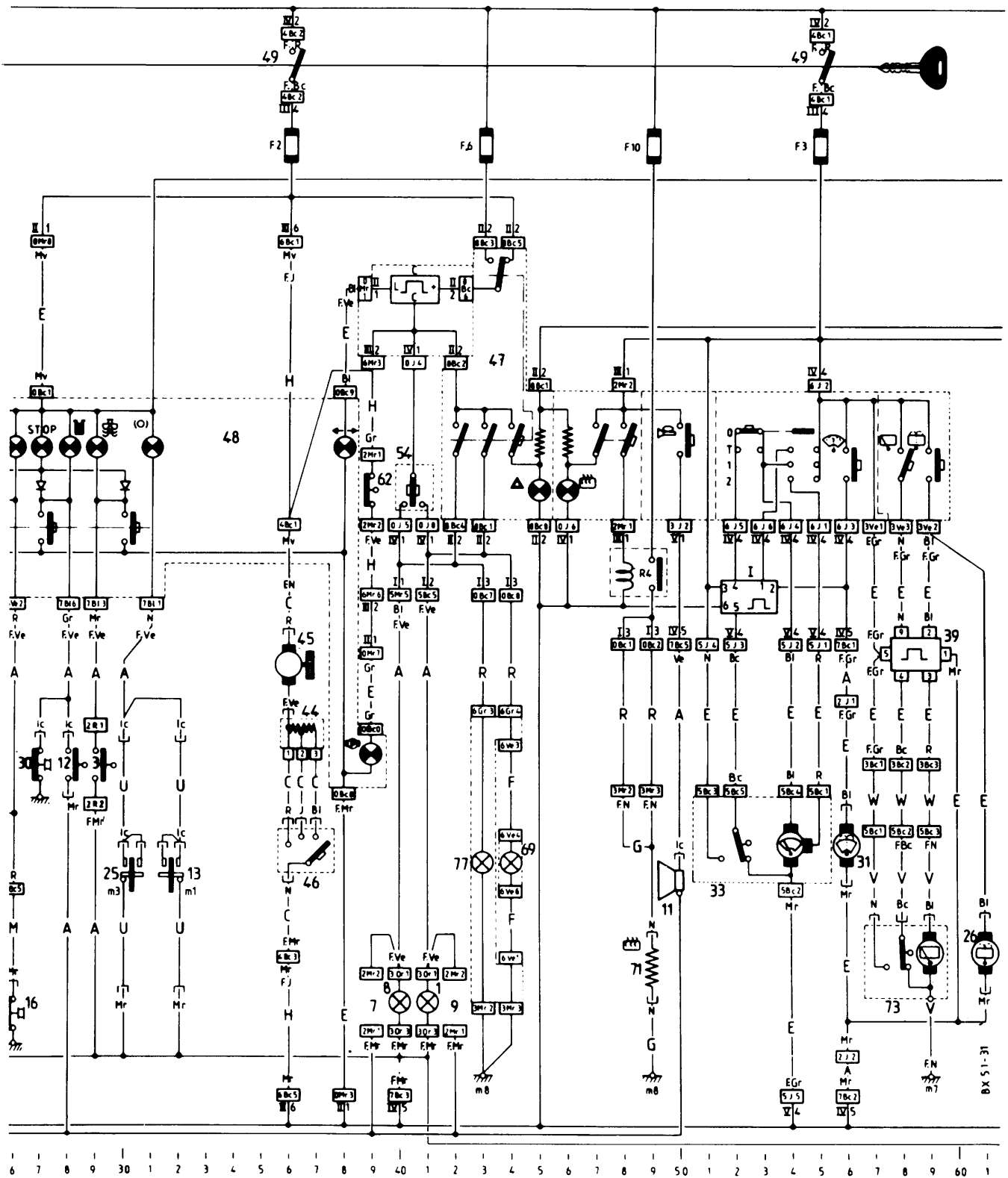


Diagram 1 - BX and BX 14 models from July 1983 (continued)

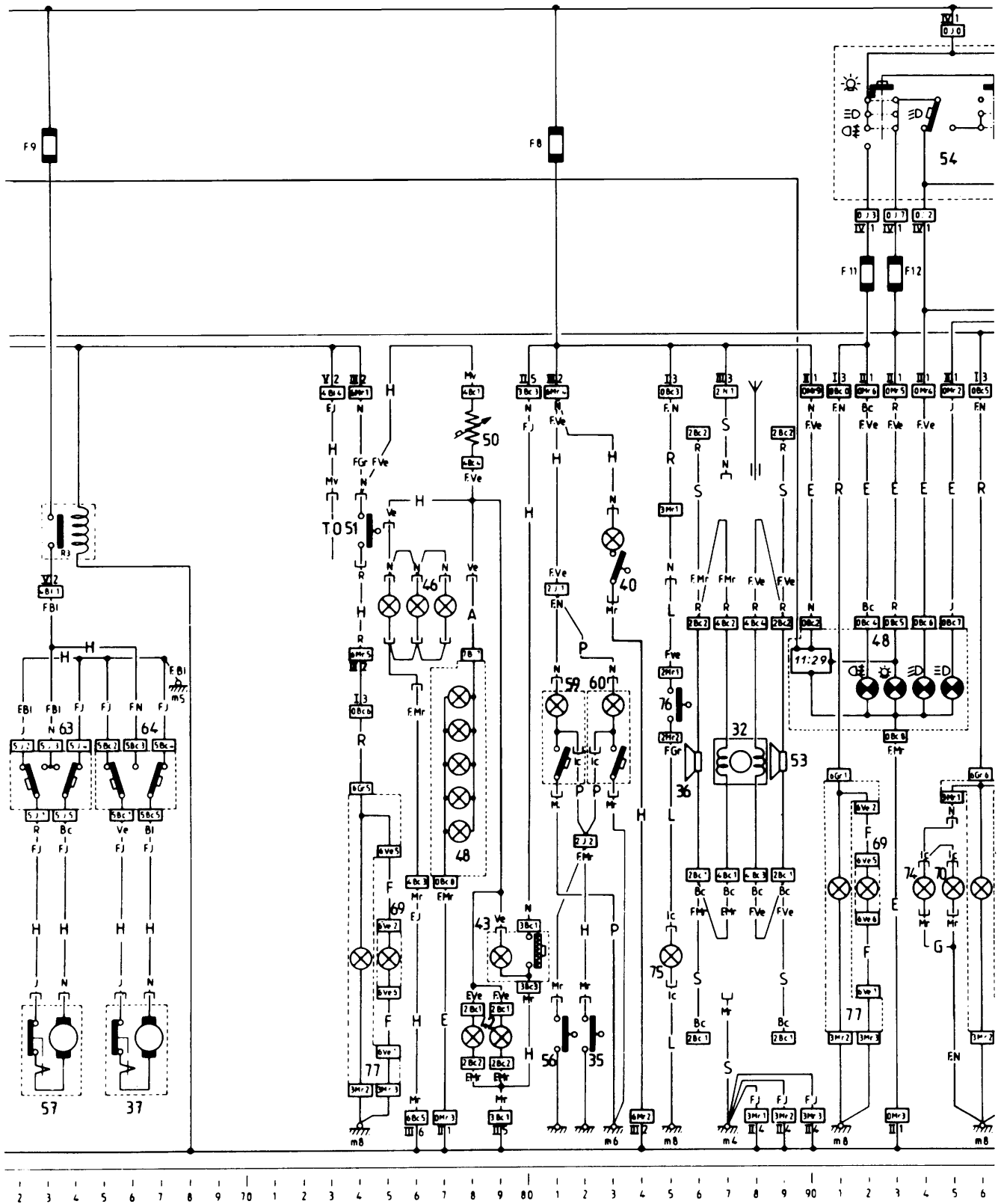


Diagram 1 - BX and BX 14 models from July 1983 (continued)

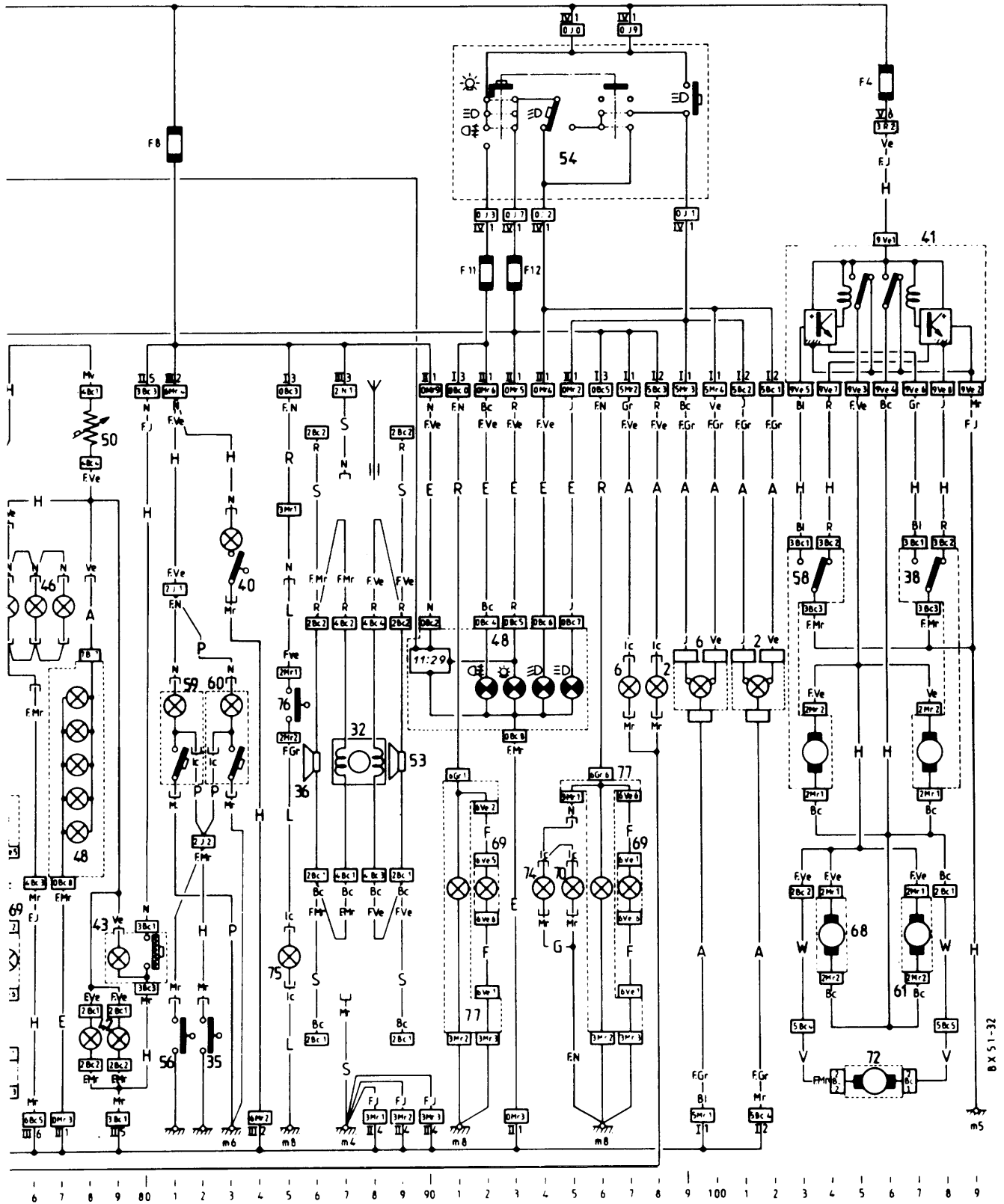


Diagram 1 - BX and BX 14 models from July 1983 (continued)

Key to Diagram 1

Number	Description	Location	Number	Description	Location	
1	Front direction indicator RH side	41	48	Dashboard:		
2	Headlamp:			Main beam warning lamp	95	
	Sidelamp	98		Dipped beam warning lamp	94	
	Main and dipped beams	101,102		Sidelamp warning lamp	93	
3	Water level switch	29		Direction indicator warning lamp	38	
4	Electrical fan thermal switch	15		Rear foglamp warning lamps	92	
5	Electric cooling fan	15		Clock	90	
6	LH headlamp:			Dashboard lighting	77,78	
	Sidelamp	97		Fuel gauge indicator	17	
	Main and dipped beams	99,100		Econoscope warning lamp and switch	18,19	
7	Connection block for LH side repeater	39		Handbrake warning lamp	39	
8	Front direction indicator LH side	40		Emergency STOP warning lamp	27	
9	Connection for RH side repeater	42		Warning lamp test button	22,25,27,30	
10	Starter motor	2 to 4		Battery charge warning lamp	11	
11	Horn	50		Fuel min. level warning lamp	16	
12	Hydraulic fluid level switch	28		Water temperature warning lamp	22	
13	Front brake unit RH side (wear)	32		Front brake pad wear warning lamp	31	
14	Reversing lamp switch	12		Choke warning lamp	20	
15	Alternator (with integrated regulator)	7 to 11		Hydraulic fluid warning lamp (pressure and level)	28	
16	Engine oil pressure switch	26		Engine oil pressure warning lamp	26	
17	Idle cut-off	13		Coolant level warning lamp	29	
18	Coolant temperature switch	22		Oil level warning lamp	24	
19	Sparking plugs	4 to 6		49	Anti-theft switch	3,7,36,55
20	Distributor	4 to 8	50	Lighting rheostat	78	
21	TDC sensor (diagnosis)	6	51	Stoplamp switch	74	
22	Diagnostic plug	4	52	Choke control	20	
23	Battery	1	53	Loudspeaker	89	
24	Econoscope sensor	18,19	54	LH control unit: Lighting	92 to 99	
25	Front brake unit LH side (wear)	30		Direction indicators	40,41	
26	Rear window washer pump	61	55	Engine oil level electronic unit	23 to 25	
27	Engine oil level sensor	23,24	56	LH door switch	81	
28	Electronic ignition unit (module)	6 to 8	57	LH front window wiper motor	62 to 64	
29	Ignition coil	6,7	58	Front door locking device unit, LH	103,104	
30	Hydraulic pressure switch	27	59	LH interior lamp	81	
31	Windscreen washer pump	56	60	RH interior lamp	83	
32	Double channel "Boomer"	87,88	61	Rear door locking device motor RH	107	
33	Windscreen wiper motor	51 to 55	62	Handbrake switch	39	
34	Connection box		63	Front window winder switch, LH	62 to 64	
35	Front door switch	82	64	Front window winder switch, RH	65 to 67	
36	LH loudspeaker	86	66	Fuel gauge rheostat	16,17	
37	Front door window winder RH	65 to 67	68	Rear door locking device motor LH	104	
38	Front door locking device unit, RH	107,108	69	Rear lamp cluster:		
39	Rear window wiper timer unit	58,59		RH tail lamp	97	
40	Glove compartment lighting	83		Stop-lamp – Foglamp	75,92	
41	Door locking device electronic unit	103 to 109		Reversing lamp – Direction indicator	13,44	
42	Ashtray lighting	78,79	70	Number plate lighting RH	95	
43	Cigar lighter and lighting	79,80	71	Heated rear window	49	
44	Air blower resistor	36, 37	72	Tailgate locking device motor	105	
45	Air blower	36	73	Rear window wiper motor	57 to 59	
46	Air blower control and lighting	36,37,75 to 77	74	Number plate lighting, LH	94	
47	RH control unit:		75	Boot lighting	85	
	Windscreen wiper and washer	52 to 56	76	Boot lighting switch	85	
	Heated rear window	46 to 48	77	Rear lamp cluster:		
	Horn	50		LH tail lamp	90	
	Hazard warning device	42 to 45		Stop-lamp – Foglamp	74,51	
				Reversing lamp – Direction indicator	12,43	

Key to Diagram 1 (continued)

Wiring colour code

Bc	White
Bl	Blue
Gr	Grey
Ic	Transparent
J	Yellow
Mr	Brown
Mv	Mauve
N	Black
Or	Orange
R	Red
Ve	Green
Vi	Violet

If the code is preceded by the letter F, it denotes the wire colour. Otherwise it denotes the sleeve colour

Earthing points

m1	Earthing point for RH front brake pad wear	32
m2	Battery earthing point on bodyshell	1,4
m3	Earthing point for LH front brake pad wear	30
m4	Connection box earthing point	87
m5	Earthing point on centre console	67,109
m6	Earthing point on windscreen frame upper part	83
m7	RH rear earthing point (rear window wiper and locking device)	59
m8	LH rear earthing point (rear window, lighting LH and RH rear lamps)	12,43,49,74,85,91,96

Harness code

A	Front
AB	Front foglamp socket
B	Boot locking – intermediate
C	Heater
D	Diagnostic
E	Windscreen wiper and dashboard
F	Ribbon-type – between rear lamps
G	Tailgate – LH
H	Passenger compartment
J	Petrol gauge
L	Boot lighting
M	Engine
P	Interior lamp
R	Ribbon-type – rear
S	Radio
U	Front brakes (pad wear)
V	Tailgate – RH (rear window wiper)
W	Tailgate – RH intermediate
X	Starting safety device
Z	Transistorised ignition

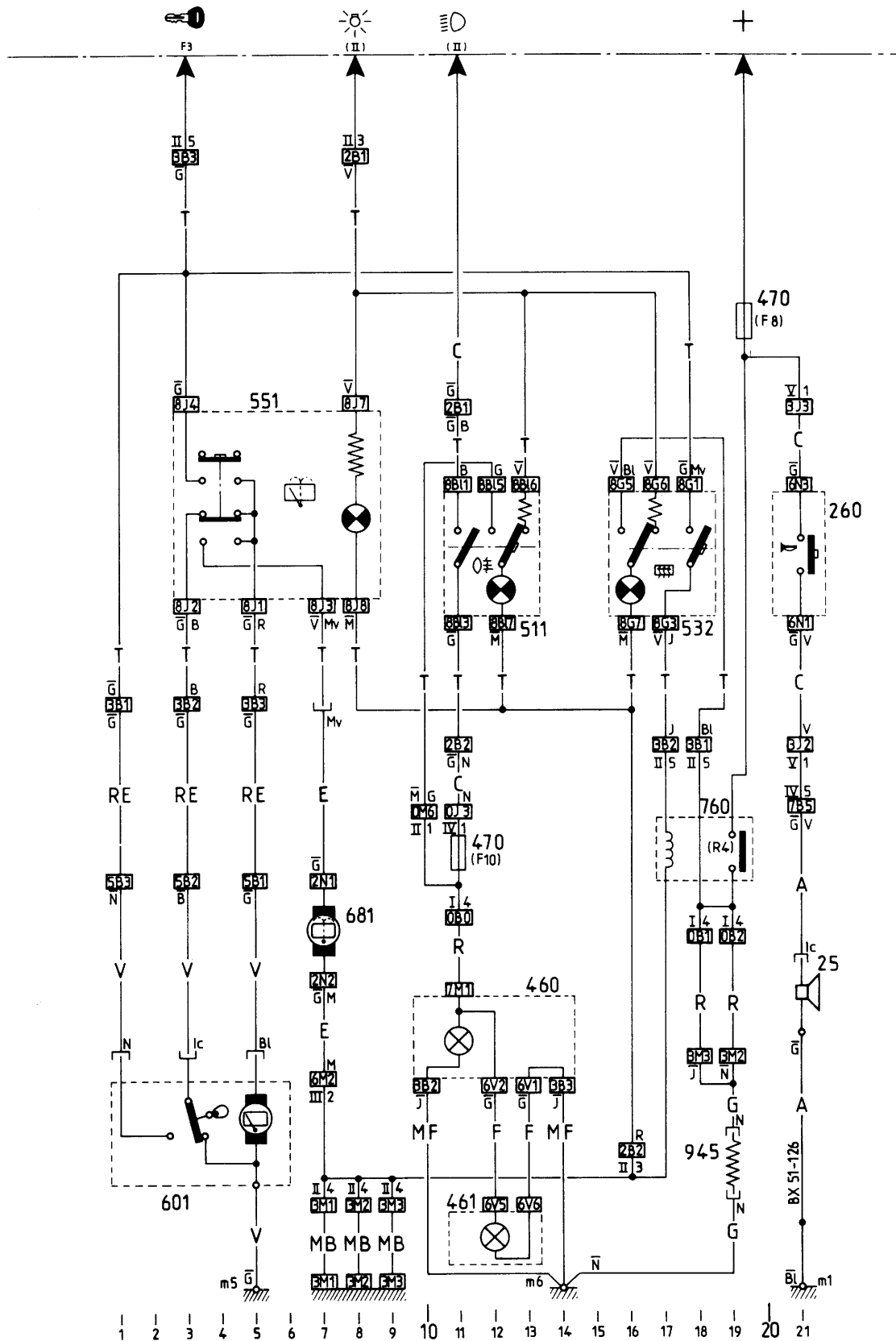


Diagram 2 - BX and BX 14 models from October 1988 - circuit III

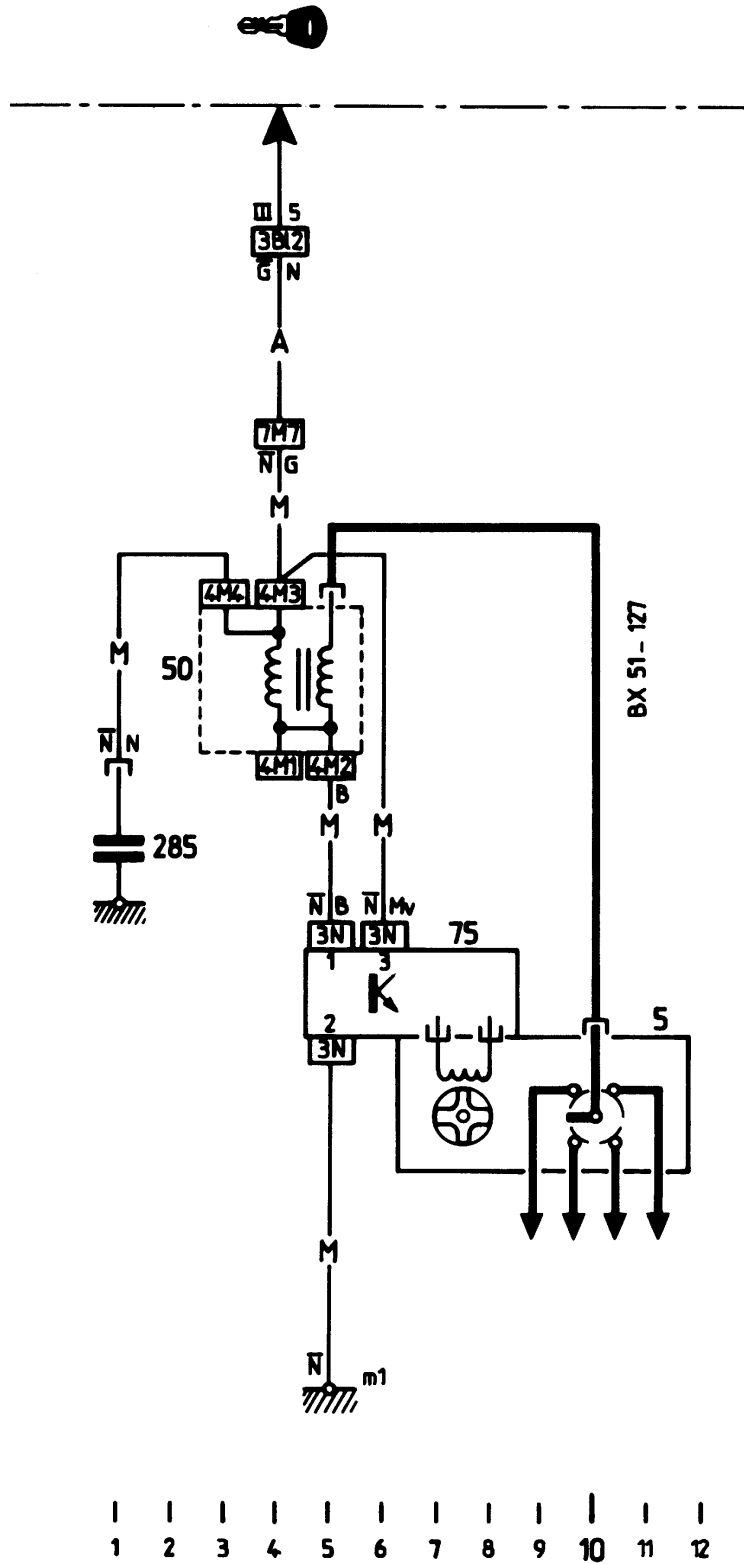


Diagram 2 - BX and BX 14 models from October 1988 - circuit IV

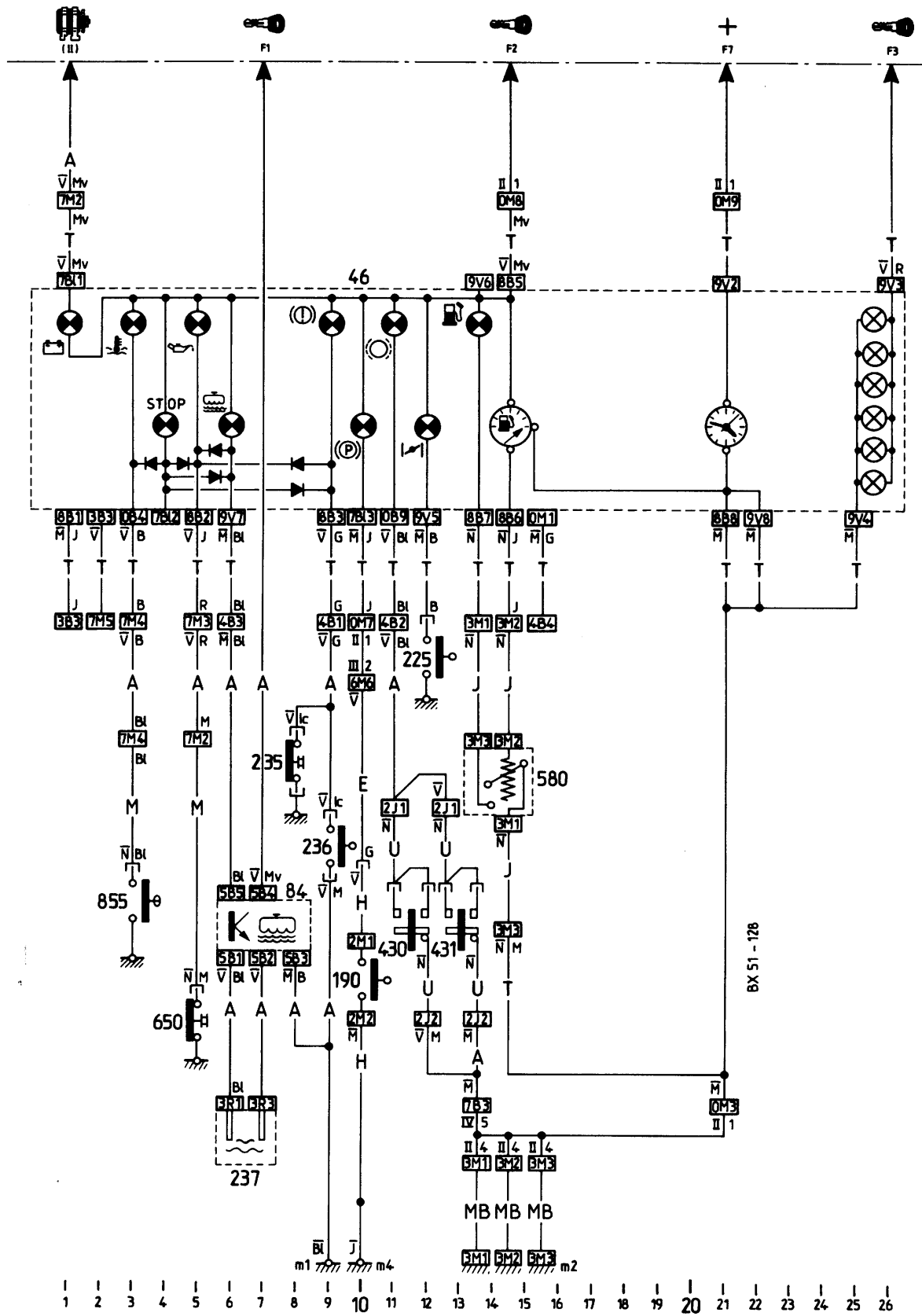


Diagram 2 - BX and BX 14 models from October 1988 - circuit V

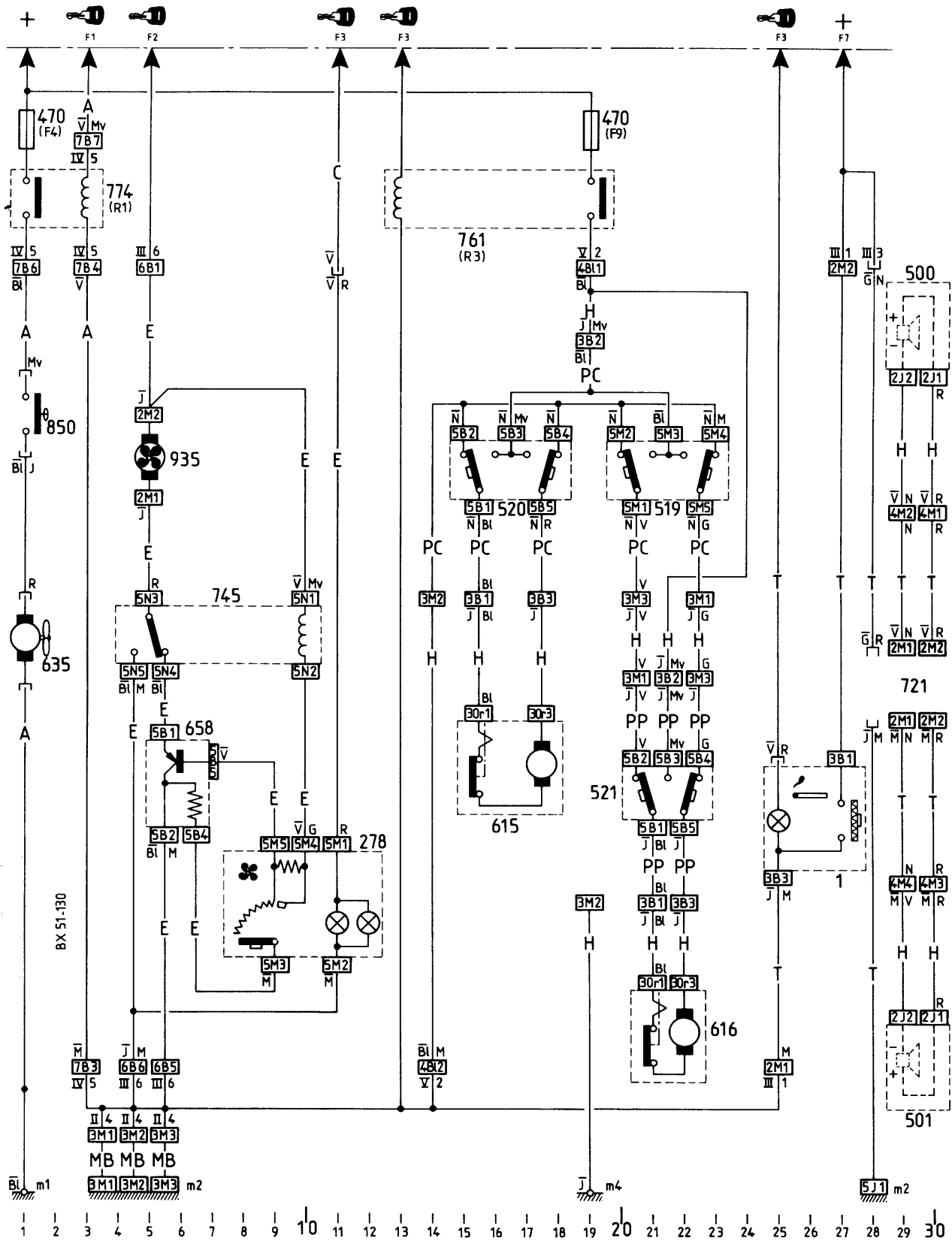


Diagram 2 - BX and BX 14 models from October 1988 - circuit VII

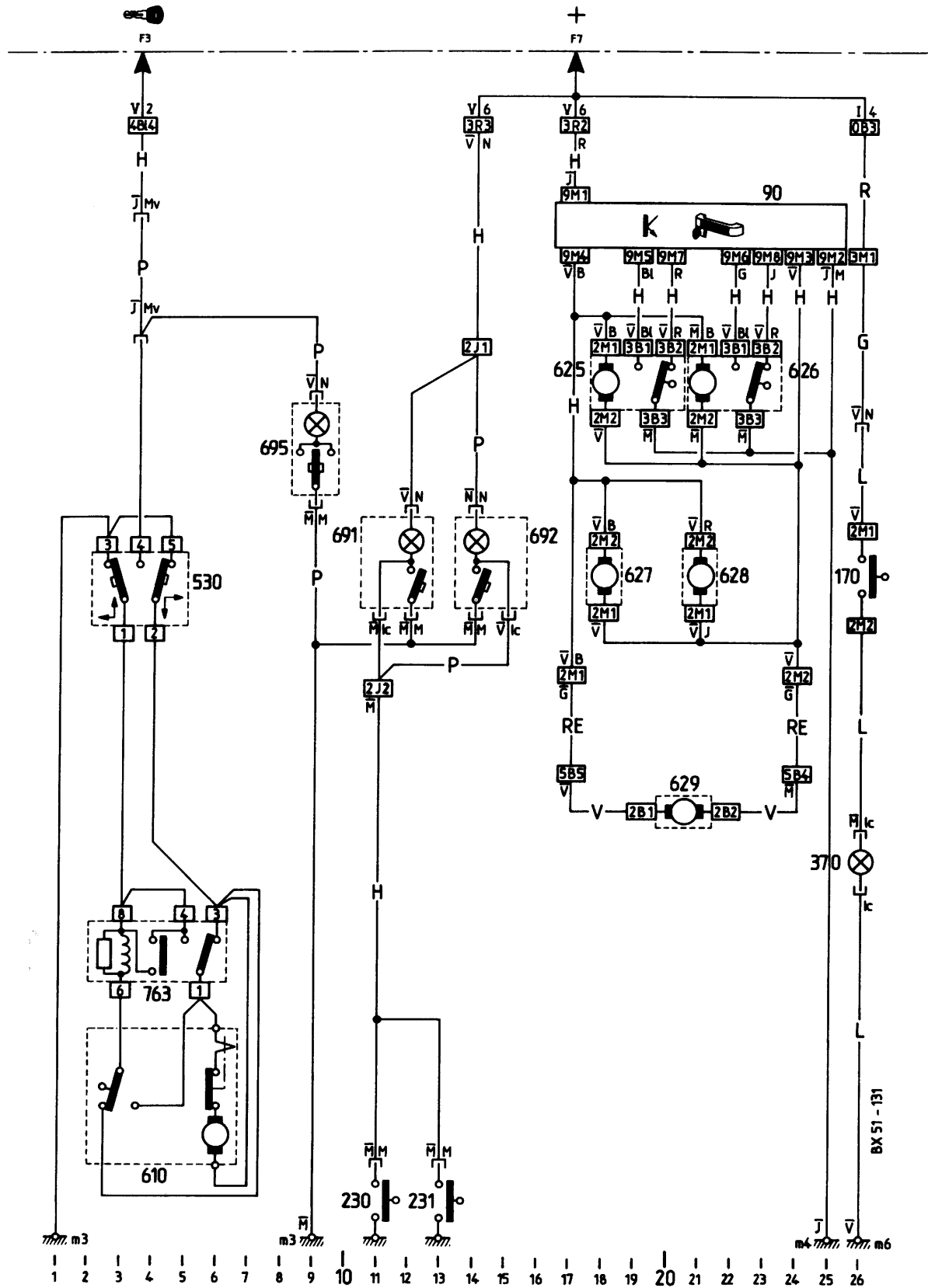


Diagram 2 - BX and BX 14 models from October 1988 - circuit VIII

Key to Diagram 2

For colour code and other information, see key to Diagram 1

No	Description	Circuit Location No	No	Description	Circuit Location No
1	Front cigar lighter/illumination	VII 25 to 25	263	Front wash/wipe switch	II 18 to 22
5	Ignition distributor	IV 7 to 11	278	Blower motor speed control	VII 8 to 12
10	Alternator	II 1 to 6	285	Ignition coil capacitor	IV 1
25	Horn	III 21	300	Starter motor	II 3 to 5
45	Battery	I 2	370	Boot or interior light	VIII 26
46	Instrument panel	II 13 to 15	385	LH rear number plate light	II 19
46	Instrument panel	IV 4 to 6	386	RH rear number plate light	II 18
46	Instrument panel	V 1 to 26	430	LH front brake caliper	V 10 to 11
50	Ignition coil	IV 3 to 5	431	RH front brake caliper	V 12 to 13
75	Ignition module	IV 5 to 8	440	LH front sidelight	II 16
84	Coolant level indicator unit	V 6 to 8	441	RH front sidelight	II 17
90	Door locking control unit	VII 17 to 25	442	LH rear light	II 20
145	Direction indicator unit (C)	VI 8 to 9	443	RH rear light	II 21
168	Battery connector	I 2 to 3	457	LH stop-light	VI 13
170	Boot light switch	VIII 26	458	RH stop-light	VI 14
180	Reversing light switch	VI 11	460	LH rear foglight	III 11
185	Stop-light switch	VI 13	461	RH rear foglight	III 12
190	Handbrake switch	V 10	462	LH reversing light	VI 11
225	Choke warning light switch	V 12	463	RH reversing light	VI 12
229	Ignition switch	I 4 to 36	470	Fuses	I 23, 24, 35, 39
230	LH front door switch	VIII 11	470	Fuses	II 15, 20, 21
231	RH front door switch	VIII 13	470	Fuses	III 11, 19
235	Hydraulic fluid flow pressure switch	V 8	470	Fuse F5	VI 8
236	Hydraulic fluid level switch	V 9	470	Fuse F4, F9	VII 1, 19
237	Coolant level switch	V 6 to 7	480	LH front direction indicator	VI 7
260	Lighting/direction indicator/horn switch	II 9 to 13	481	RH front direction indicator	VI 8
260	Lighting/direction indicator/horn switch	III 21	482	LH rear direction indicator	VI 8
260	Lighting/direction indicator/horn switch	IV 7 to 8	483	RH rear direction indicator	VI 10
			488	LH headlight	II 9 to 10
			489	RH headlight	II 11 to 12
			500	LH front loudspeaker	VII 29 to 30

Key to Diagram 2 (continued)

For colour code and other information, see key to Diagram 1

No	Description	Circuit No	Location	No	Description	Circuit No	Location
501	RH front loudspeaker	VII	29 to 30	635	LH engine cooling fan motor	VII	1
511	Rear foglight switch	III	11 to 13	650	Engine oil pressure switch	V	5
519	RH window winder switch on driver's door	VII	20 to 23	658	Blower fan control module	VII	6
520	LH window winder switch on driver's door	VII	15 to 18	680	Windscreen washer pump	II	18
521	RH front window winder switch	VII	21 to 22	681	Rear screen washer pump	III	7
530	Sunroof switch	VIII	3 to 4	691	LH interior light	VIII	11 to 12
532	Heated rear window switch	III	16 to 18	692	RH interior light	VIII	14 to 15
551	Rear screen intermittent wiper switch	III	3 to 8	695	Interior spotlights	VIII	9
570	Hazard warning light switch	VI	1 to 9	721	Radio connections (12V and speakers)	VII	28 to 30
580	Fuel gauge	V	14	745	Blower motor high speed relay	II	5 to 10
600	Windscreen wiper motor	II	19 to 25	760	Heated rear screen relay (R4)	III	17 to 19
601	Rear screen wiper motor	III	1 to 5	761	Front window winder motor relay (R3)	VII	13 to 19
610	Sunroof motor	VIII	3 to 6	763	Sunroof motor relay	VII	3 to 6
615	LH front window winder motor	VII	15 to 18	765	Windscreen wiper relay	II	21 to 24
616	RH front window winder motor	VII	21 to 22	774	Engine cooling fan relay (R1)	VII	1 to 3
625	LH front door lock motor	VIII	18 to 20	795	Lighting rheostat	I	35
626	RH front door lock motor	VIII	21 to 23	850	Cooling fan thermal switch	VII	1
627	LH rear door lock motor	VIII	18	855	Water temperature switch	V	3
628	RH rear door lock motor	VIII	27	935	Air conditioning fan	VII	5
629	Boot lid lock motor	VIII	20 to 21	945	Heated rear screen	III	19

Harness code

A	Front
C	Switches
CN	Battery negative cable
CP	Battery positive cable
E	Window wiper
F	Rear light cluster connection
G	LH side tailgate
H	Interior
J	Fuel gauge
L	Boot lighting
M	Engine

M-B	Junction box earth
M-F	Rear light cluster earth
P	Interior lighting
PC	Driver's door
PP	Passenger's door
R	Rear
RE	Rear screen wiper
T	Instrument panel
U	Brake pad wear
V	RH side tailgate
Z	Ignition

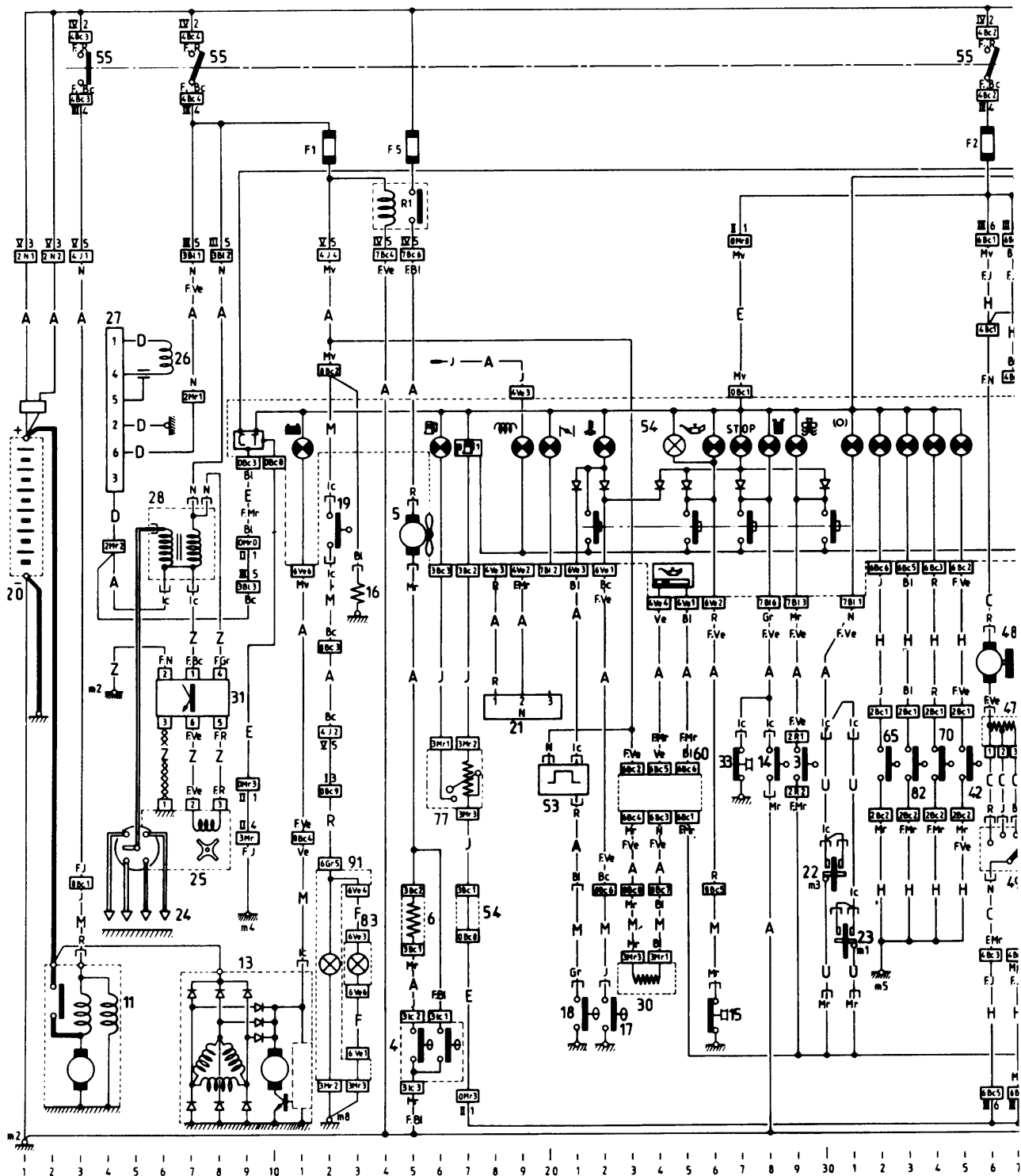


Diagram 3 - BX 16 models from July 1983 (typical)

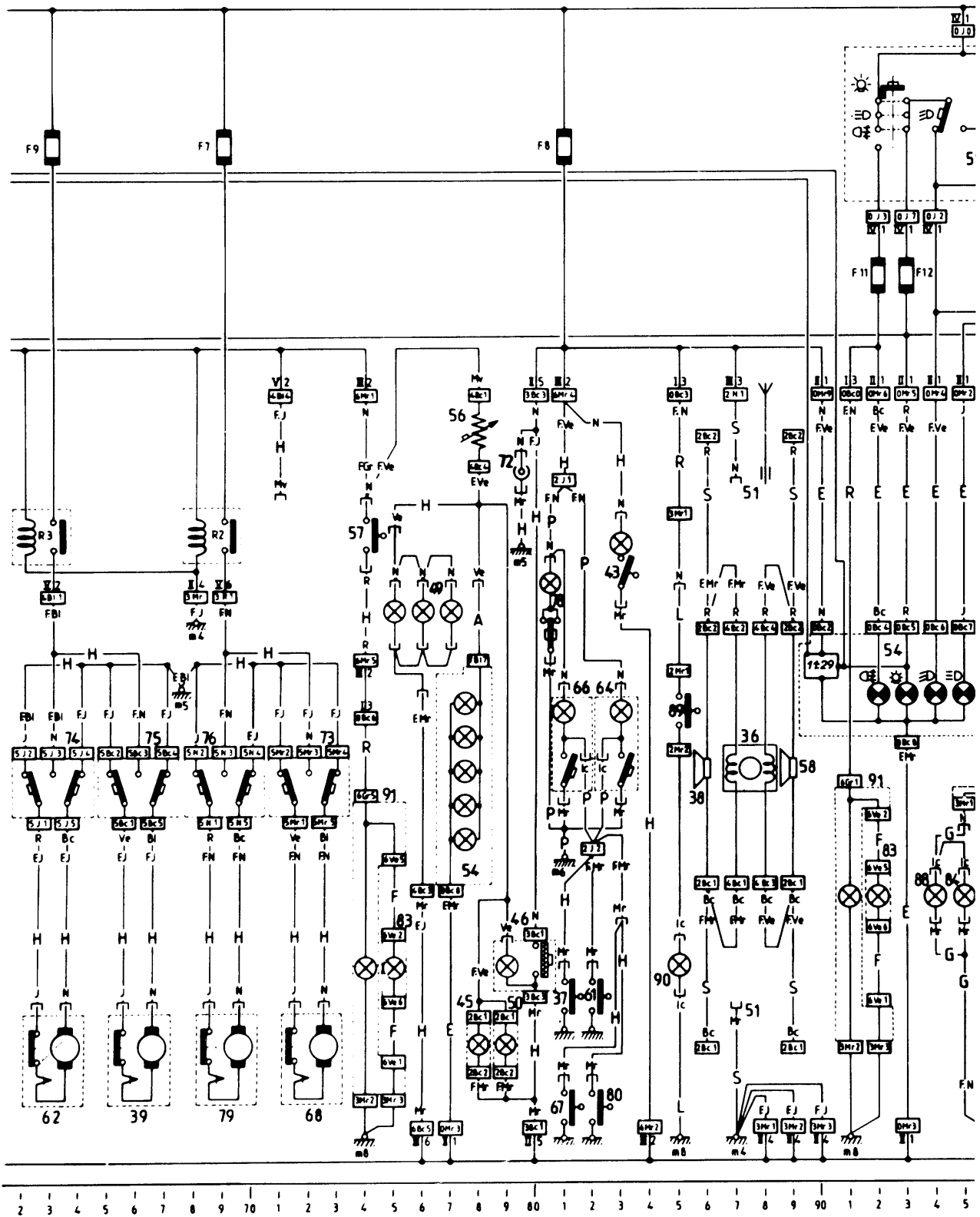


Diagram 3 - BX 16 models from July 1983 (continued)

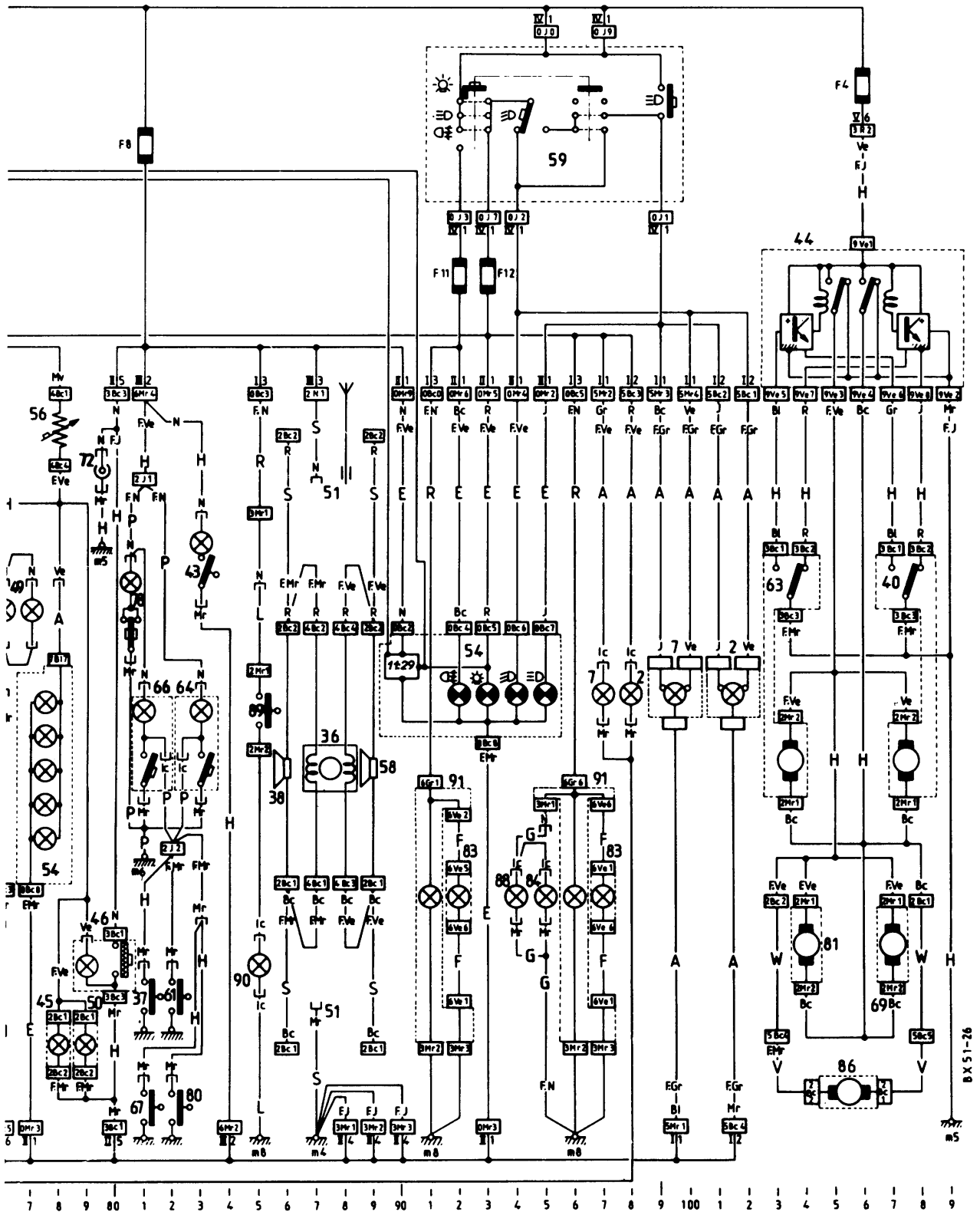


Diagram 3 - BX 16 models from July 1983 (continued)

Key to Diagram 3

Number	Description	Location	Number	Description	Location
1	Front direction indicator RH	40		Dipped beam warning lamp	94
2	RH headlamp:			Side and tail lamp warning lamp	93
	Sidelamp	98		Direction indicator warning lamp	38
	Main and dipped beams	101,102		Rear foglamp warning lamp	92
3	Water level switch	29		Door locking device warning lamp	32 to 35
4	Electric fan double thermal switch	15,16		Handbrake warning lamp	39
5	Electric cooling fan	15		Clock	90
6	Electric fan resistor	15		Engine oil level indicator	24,25
7	LH headlamp:			Fuel gauge indicator	17
	Sidelamp	97		Tachometer	9
	Main and dipped beams	99,100		Battery charge warning lamp	11
8	Connector for LH side repeater	42		Fuel min. level warning lamp	16
9	Front direction indicator LH side	41		Water temperature warning lamp	22
10	Connector for RH side repeater	39		Front brake pad wear warning lamp	31
11	Starter motor	2 to 4		Emergency STOP warning lamp and STOP test button	22,25,27,30
12	Horn	50		Hydraulic fluid warning lamp (pressure and level)	28
13	Alternator with incorporated regulator	7 to 11		Engine oil pressure warning lamp	26
14	Hydraulic fluid level switch	28		Coolant level warning lamp	29
15	Engine oil pressure switch	26		55 Anti-theft switch	3,7,36,55
16	Idle cut-off	13		56 Lighting rheostat (via anti-theft switch)	78
17	Water temperature warning switch	22		57 Stop-lamp switch (braking)	74
18	Water temperature switch (flasher)	21		58 LH loudspeaker	89
19	Reversing lamp switch	12		59 LH control unit:	
20	Battery	1		Lighting	92 to 99
21	Connection block for diesel tachometer sensor	18 to 20		Direction indicator	40,41
22	LH front brake unit (wear)	30		Electronic unit for engine oil level	23 to 25
23	RH front brake unit (wear)	31		61 LH front door switch	82
24	Ignition sparking plugs	4 to 6		62 LH front window winder motor	62 to 64
25	Distributor	4 to 8		63 LH front door locking device unit	103,104
26	TDC sensor (diagnostic)	6		64 LH interior lamp	83
27	Diagnostic socket	4		65 LH front door locking device switch	32
28	Ignition coil	6 to 8		66 RH interior lamp	81
29	Rear window washer pump	61		67 RH rear door switch	81
30	Engine oil level sensor	23,24		68 RH rear window winder motor	71 to 73
31	Ignition electronic unit (module)	6 to 8		69 RH rear door locking device motor	107
32	Windscreen washer pump	56		70 RH rear door locking device switch	34
33	Hydraulic fluid pressure switch	27		71 Handbrake switch	39
34	Windscreen wiper motor	51 to 55		72 Accessory plug	79
35	Connection box			73 RH rear window winder switch	71 to 73
36	Double-channel "Boomer"	87,88		74 LH front window winder switch	62 to 64
37	RH front door switch	81		75 RH front window winder switch	65 to 68
38	RH loudspeaker	86		76 LH rear window winder switch	68 to 70
39	RH front window winder motor	65 to 67		77 Fuel gauge rheostat	16,17
40	RH front door locking device unit	107,108		78 Map reading lamp	81
41	Rear window wiper timer unit	58,59		79 LH rear window winder motor	68 to 70
42	RH front door locking device switch	35		80 LH rear door switch	82
43	Glove compartment lighting	83		81 LH rear door locking device motor	104
44	Electronic unit for door locking device	103,109		82 LH rear door locking device switch	33
45	Ashtray lighting	78		83 RH rear lamp cluster:	
46	Cigar lighter and lighting	79,80		Tail lamp	97
47	Air blower resistors	36,37		Stop-lamp – Foglamp	75,92
48	Air blower	36		Reversing lamp – Direction indicator	13,44
49	Air blower control and lighting	36,37,75 to 77		84 Number plate lamp RH	95
50	Ashtray lighting	79		85 Heated rear window	49
51	Radio connections	86 to 89		86 Tailgate locking device motor	105
52	RH control unit:			87 Rear window wiper motor	57 to 59
	Horn	50		88 Number plate lamp, LH	94
	Windscreen wiper and washer	53 to 56		89 Boot lighting switch	85
	Heated rear window	46 to 48		90 Boot lighting	85
	Hazard warning device	42 to 45		91 LH rear lamp cluster:	
53	Water temperature flasher	20,21		Tail lamp	96
54	Dashboard:			Stop-lamp – Foglamp	74,91
	Lighting	77,78		Reversing lamp – Direction indicator	12,43
	Main beam warning lamp	95			

Not all items are fitted to all models

Key to Diagram 3 (continued)

Wiring colour code

Bc	White
Bl	Blue
Gr	Grey
Ic	Transparent
J	Yellow
Mr	Brown
Mv	Mauve
N	Black
Or	Orange
R	Red
Ve	Green
Vi	Violet

If the code is preceded by the letter F, it denotes the wire colour. Otherwise it denotes the sleeve colour

Earthing points

m1	Earthing point for RH front brake pad wear	31
m2	Battery earthing point on bodyshell	1,4
m3	Earthing point for LH front brake pad wear	30
m4	Earthing point for connection box and dashboard	9,69,87
m5	Earthing point on console	67,79,109
m6	Earthing point on windscreen frame upper part	81
m7	RH rear earthing point (rear window wiper)	59
m8	LH rear earthing point (heated rear window boot)	49,85
	LH and RH rear lamps	12,43,74,91,96

Harness code

A	Front
AB	Front foglamp socket
B	Boot locking – intermediate
C	Heater
D	Diagnostic
E	Windscreen wiper and dashboard
F	Ribbon-type – between rear lamps
G	Tailgate – LH
H	Passenger compartment
J	Petrol gauge
L	Boot lighting
M	Engine
P	Interior lamp
R	Ribbon-type – rear
S	Radio
U	Front brakes (pad wear)
V	Tailgate – RH (rear window wiper)
W	Tailgate – RH intermediate
X	Starting safety device
Z	Transistorised ignition

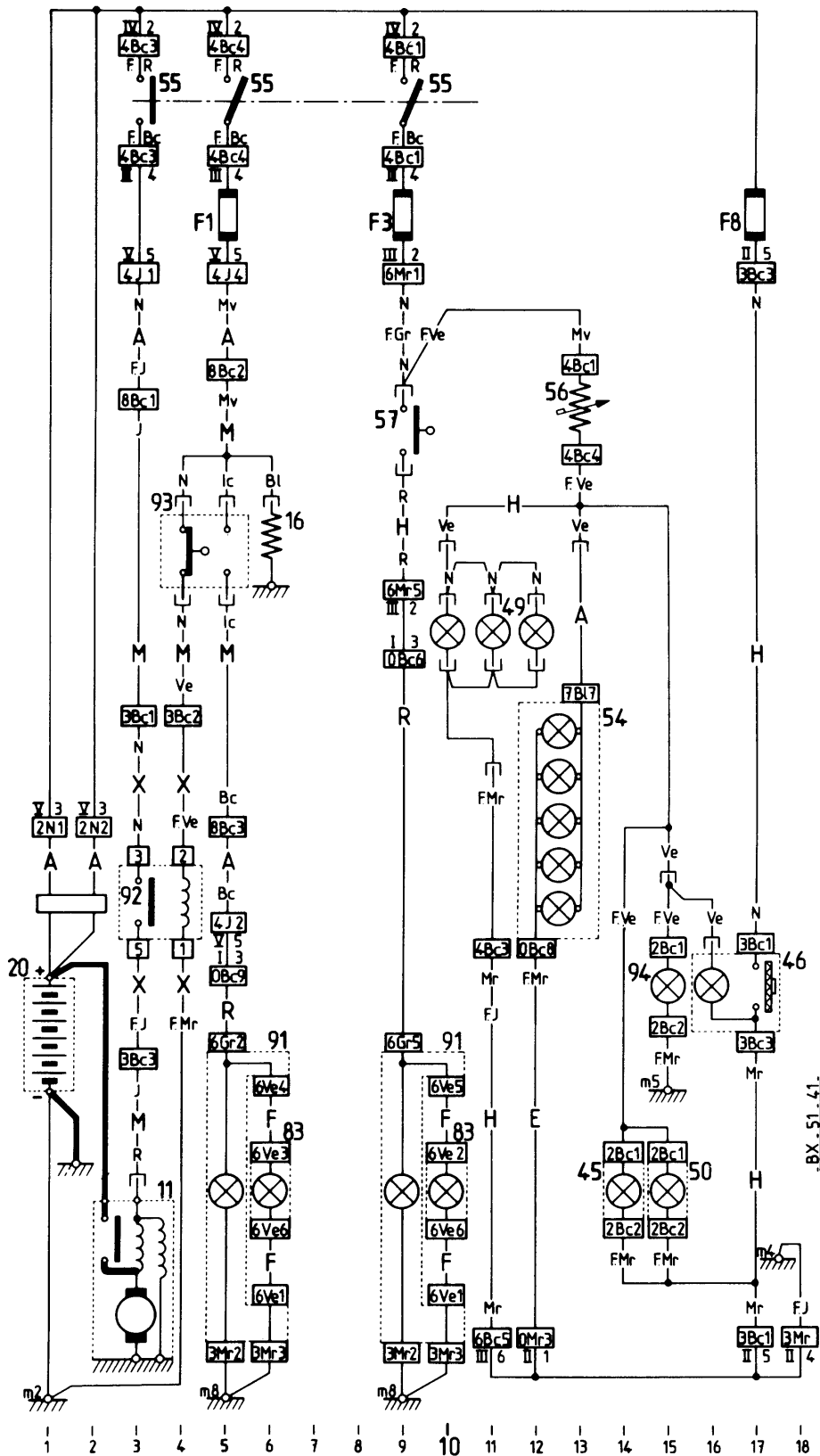


Diagram 4 - BX 16 models with automatic transmission

Key to Diagram 4

Number	Description	Location
11	Starter	2 to 4
16	Float chamber electric ventilation	6
20	Battery	1
45	Ashtray lighting	14
46	Cigar lighter and lighting	16,17
49	Air blower control lighting	10 to 12
50	Ashtray lighting	15
54	Dashboard lighting	12,13
55	Anti-theft switch	3,5,9
56	Lighting rheostat	13
57	Stop-lamp switch	9
83	RH rear lamp cluster	6,10
91	LH rear lamp cluster	5,9
92	Starter motor relay, starter motor	3,4
93	Switch for starter motor, reversing lamps	4,5
94	Gearchange diagram lighting	15

Harness code

A	Front
AB	Front foglamp socket
B	Boot locking – intermediate
C	Heater
D	Diagnostic
E	Windscreen wiper and dashboard
F	Ribbon-type – between rear lamps
G	Tailgate – LH
H	Passenger compartment
J	Petrol gauge
L	Boot lighting
M	Engine
P	Interior lamp
R	Ribbon-type – rear
S	Radio
U	Front brakes (pad wear)
V	Tailgate – RH (rear window wiper)
W	Tailgate – RH intermediate
X	Starting safety device
Z	Transistorised ignition

Wiring colour code

Bc	White
Bl	Blue
Gr	Grey
lc	Transparent
J	Yellow
Mr	Brown
Mv	Mauve
N	Black
Or	Orange
R	Red
Ve	Green
Vi	Violet

If the code is preceded by the letter F, it denotes the wire colour. Otherwise it denotes the sleeve colour

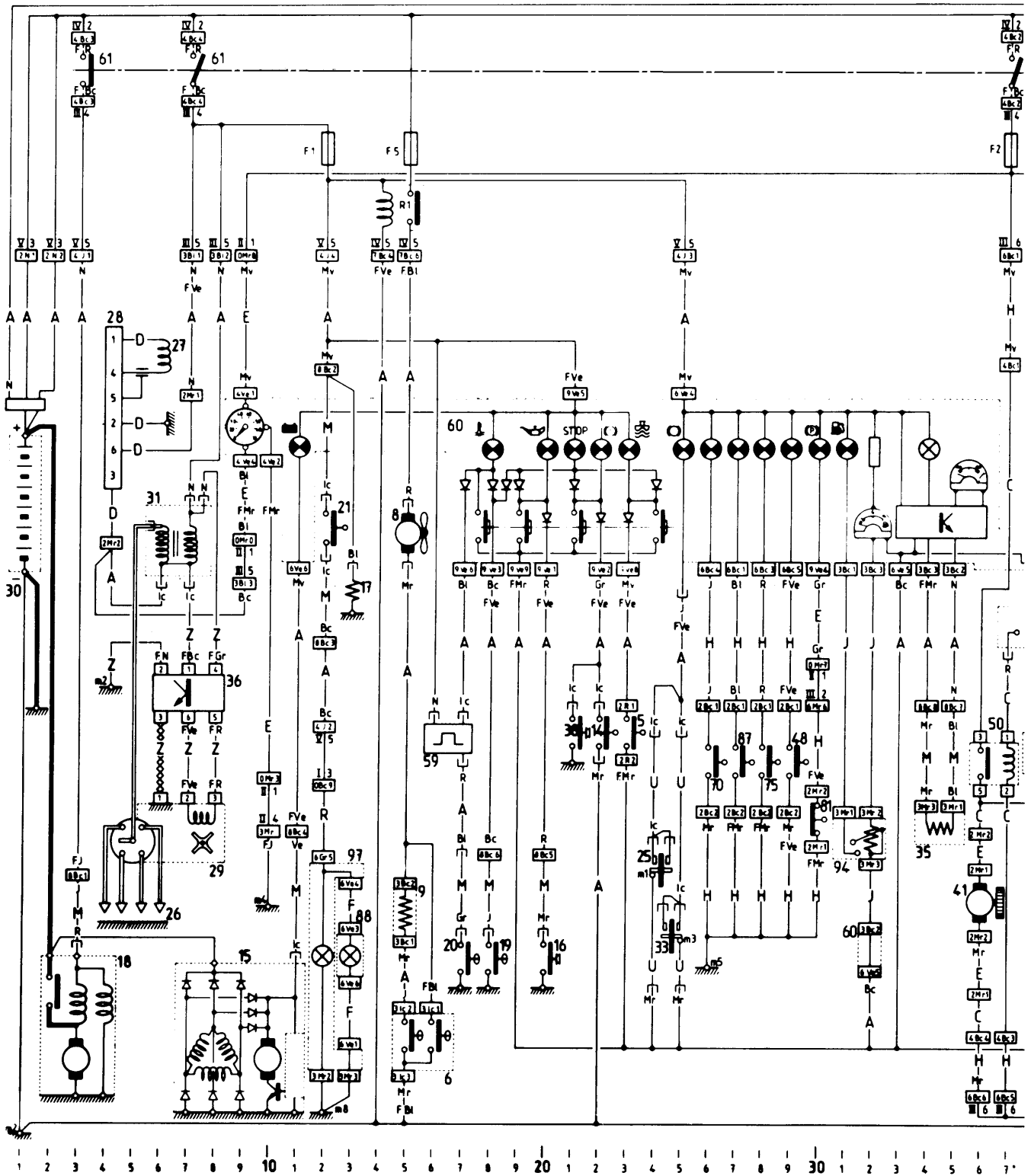


Diagram 5 - BX 19 GT models

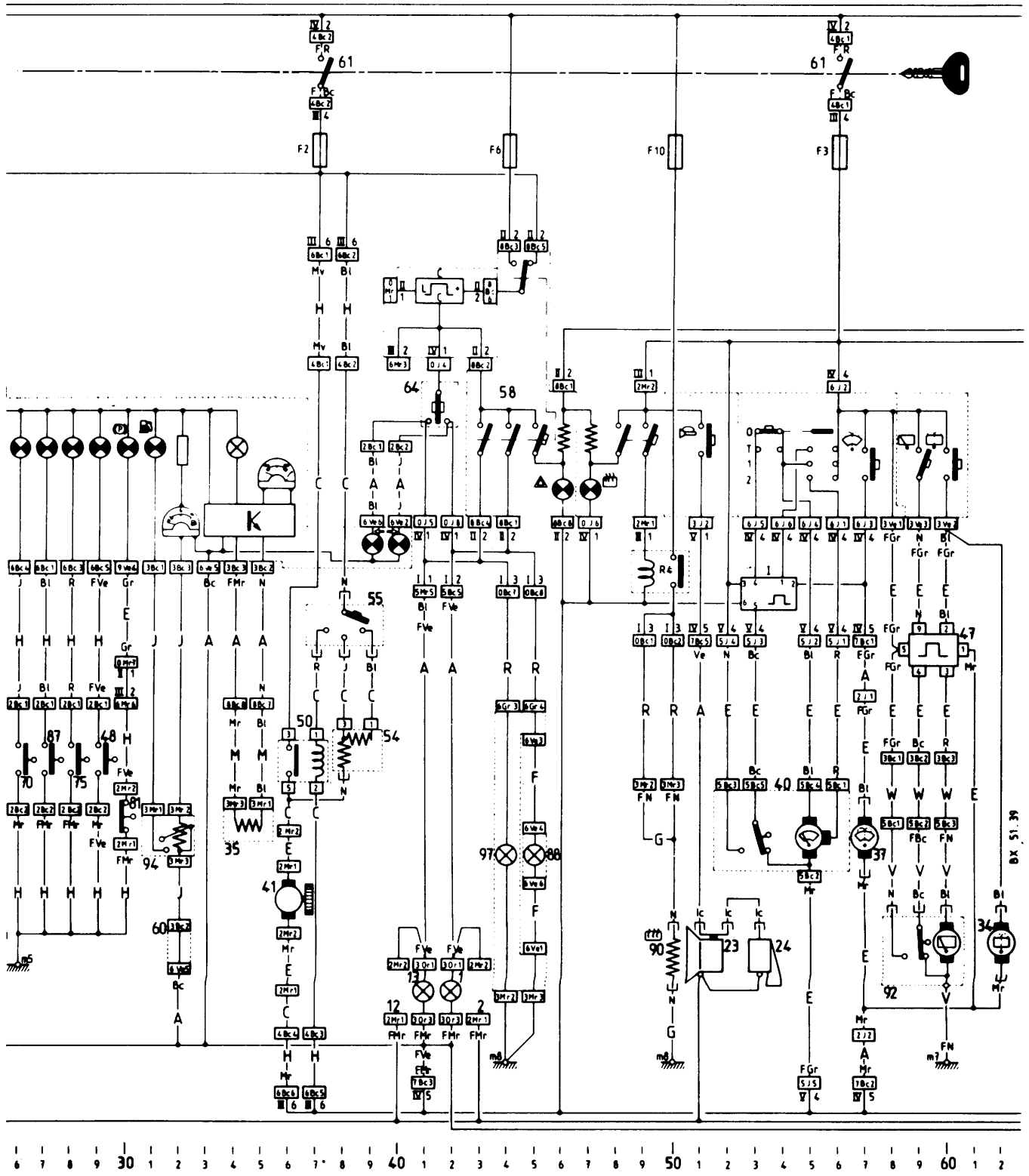


Diagram 5 - BX 19 GT models (continued)

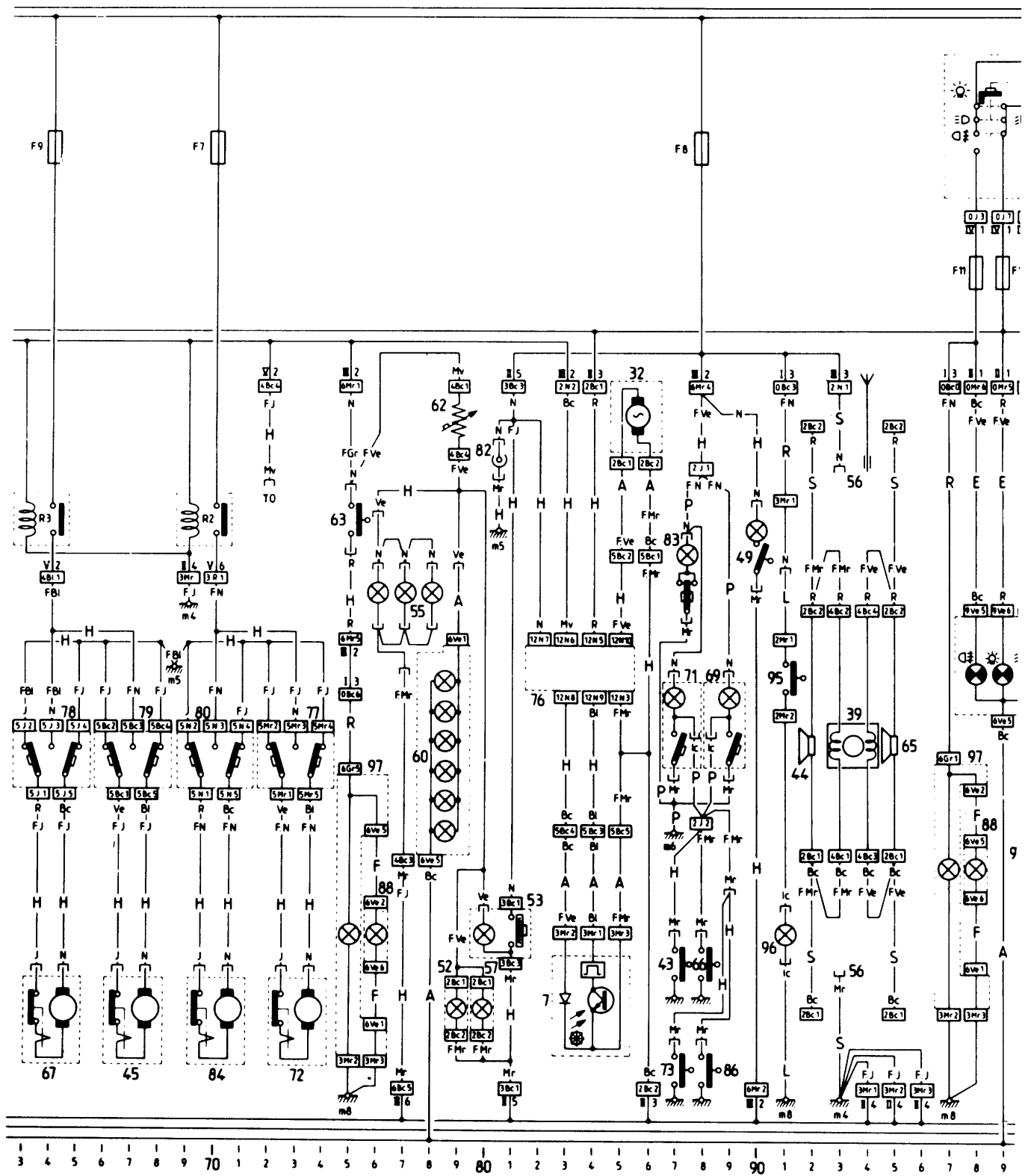


Diagram 5 - BX 19 GT models (continued)

Key to Diagram 5

Number	Description	Location	Number	Description	Location
1	RH front direction indicator	42		Coolant level	23
2	Connector for RH side repeater	43		Water temperature warning lamp	17
3	RH headlamp:			Emergency STOP warning lamp	21
	Sidelamp	104		Engine oil pressure warning lamp	19
	Main and dipped beams	110,111		Warning lamp for hydraulic fluid pressure and level	22
4	RH foglamp	102		Battery charge warning lamp	11
5	Water level switch	23		Side and tail lamps warning lamp	99
6	Electric fan double thermal switch	15,16		Dipped beam warning lamp	100
7	Flowmeter	83,85		Main beam warning lamp	101
8	Electric cooling fan	15		Rear foglamp warning lamp	98
9	Electric fan resistor	15		Warning lamp for opened doors and tailgate	26 to 30
10	LH foglamp	107		LH flasher warning lamp	39
11	LH headlamp:			RH flasher warning lamp	40
	Sidelamp	103		Front brakes pad wear warning lamp	25
	Main and dipped beams	108,109		Handbrake warning lamp	30
12	Connector for LH side repeater	40		Fuel min level warning lamp	31
13	LH front direction indicator	41		Fuel level indicator	32
14	Hydraulic fluid level switch	21		Engine oil level indicator, electronic unit and lighting	33,36
15	Alternator with integrated regulator	7 to 11		Dashboard lighting	78,79
16	Engine oil pressure switch	20		Rev. counter	9
17	Idle cut-off	13		Anti-theft switch	2,6,37,56
18	Starter motor	2 to 4		Rheostat for dashboard lighting	79
19	Emergency coolant temperature switch	18	61	Stop-light switch	75
20	Water temperature warning switch	17	62	LH control box:	
21	Reversing lamp switch	12	63	Direction indicators	41,42
22	Foglamp relay	106,107	64	Lighting	98,105
23	Low-pitched tone horn	51		Foglamp	105,106
24	High-pitched tone horn	53	65	LH loudspeaker	95
25	RH front brake unit	23,24	66	LH front door switch	88
26	Sparking plug	4 to 6	67	LH front window winder motor	63,64
27	TDC sensor	6	68	LH front door locking device motor	112,113
28	Diagnostic socket	4	69	LH interior lamp	86,87
29	Distributor	4 to 8	70	LH front door closing switch	26
30	Battery	1	71	RH interior lamp	88,89
31	Ignition coil	6 to 7	72	RH rear window winder motor	73
32	Speed sensor	85,86	73	RH rear door contact switch	87
33	LH front brake unit	24,25	74	RH rear door locking device motor	76
34	Rear screen washer pump	62	75	RH rear door closing switch	28
35	Engine oil level sensor	34,35	76	On-board computer	82 to 85
36	Electronic ignition module	6 to 8	77	RH rear window winder selector switch	72 to 74
37	Windscreen washer pump	57	78	LH front window winder selector switch	63 to 65
38	Hydraulic fluid pressure switch	21	79	RH front window winder selector switch	66 to 68
39	Double channel "Boomer"	93,94	80	LH rear window winder selector switch	69 to 71
40	Windscreen wiper motor	52 to 56	81	Handbrake contact switch	30
41	Air blower	36	82	Plug for accessories (12 volts)	80
42	Connection box	-	83	Map reading lamp	87
43	RH front door switch	87	84	LH rear window winder motor	70
44	RH front loudspeaker	92	85	LH rear door locking device motor	113
45	RH front window winder motor	67	86	LH rear door contact switch	88
46	RH front door locking device motor	103	87	LH rear door closing switch	27
47	Rear window wiper timer unit	59,60	88	RH rear signals unit:	
48	RH front door closing switch	29		Side and foglamps	103,98
49	Glove compartment lighting	90		STOP lamp, reversing lamp	76,13
50	Air blower relay	36,37		Direction indicator	45
51	Electronic unit for door locking device	112,118	89	Number plate RH lighting	101
52	Ashtray lighting	79	90	Heated rear window	50
53	Cigar lighter and lighting	80,81	91	Boot locking device motor	115
54	Air blower resistor	38,39	92	Rear window wiper motor	58 to 60
55	Air blower control and lighting	37 to 39, 76 to 78	93	Number plate LH lighting	100
56	Radio connectors	92 to 95	94	Fuel gauge rheostat	31,32
57	Ashtray lighting	80	95	Boot lighting switch	91
58	RH control box:		96	Boot lighting	91
	Front windscreen wiper	53,55	97	LH rear signals unit:	
	Rear screen wiper	59,60		Tail and foglamp	102,97
	Heated rear window	47,49		STOP lamp, reversing lamp	75,12
	Hazard warning device	43,46		Direction indicator	44
	Horn	51			
59	Water temperature flasher unit	16,17			
60	Dashboard:				

Key to Diagram 5 (continued)

Wiring colour code

Bc	White
Bl	Blue
Gr	Grey
Ic	Transparent
J	Yellow
Mr	Brown
Mv	Mauve
N	Black
Or	Orange
R	Red
Ve	Green
Vi	Violet

If the code is preceded by the letter F, it denotes the wire colour. Otherwise it denotes the sleeve colour

Harness code

A	Front
AB	Front foglamp socket
B	Boot locking – intermediate
C	Heater
D	Diagnostic
E	Windscreen wiper and dashboard
F	Ribbon-type – between rear lamps
G	Tailgate – LH
H	Passenger compartment
J	Petrol gauge
L	Boot lighting
M	Engine
P	Interior lamp
R	Ribbon-type – rear
S	Radio
U	Front brakes (pad wear)
V	Tailgate – RH (rear window wiper)
W	Tailgate – RH intermediate
X	Starting safety device
Z	Transistorised ignition

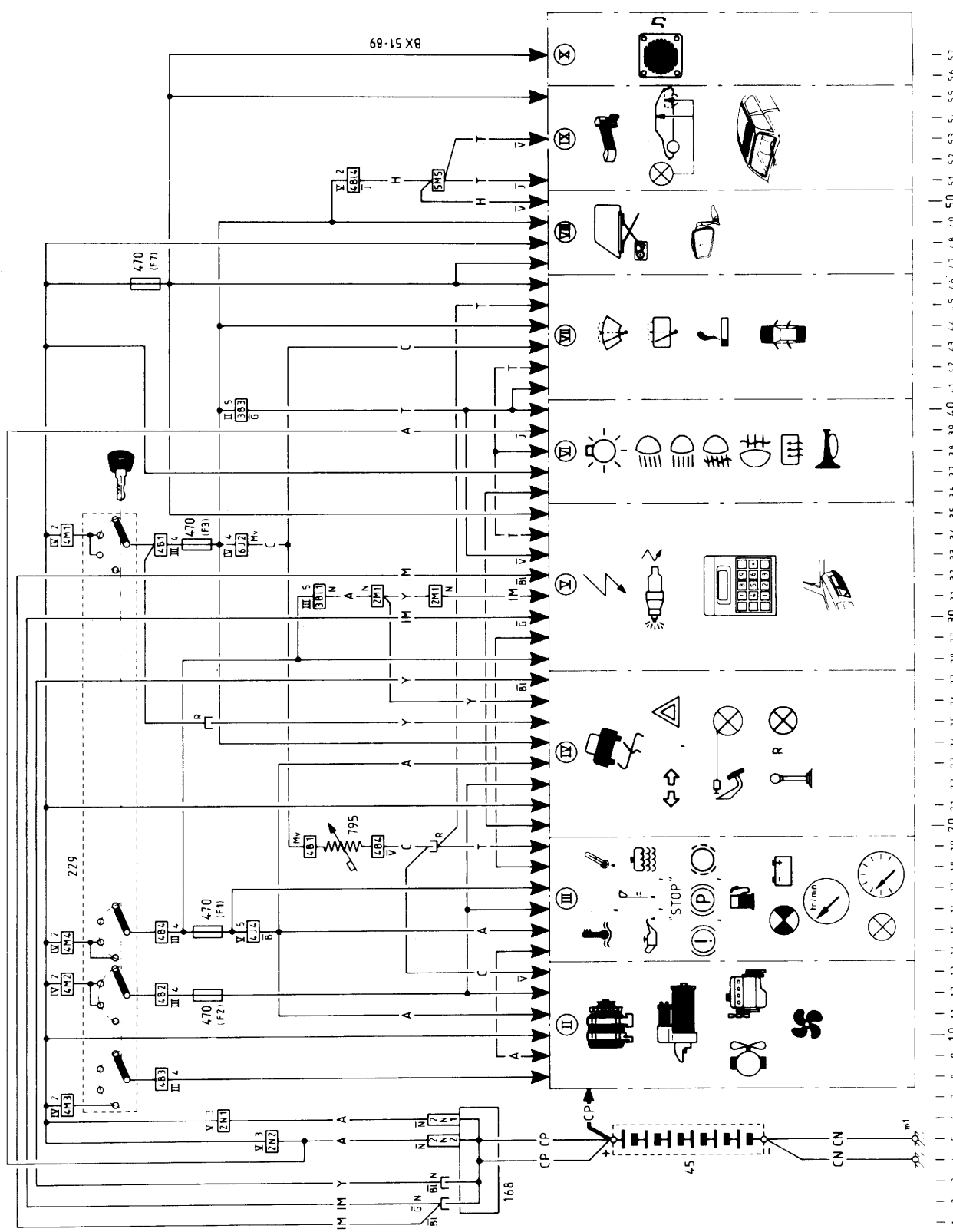


Diagram 6 - All models from 1987 - circuit I

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57

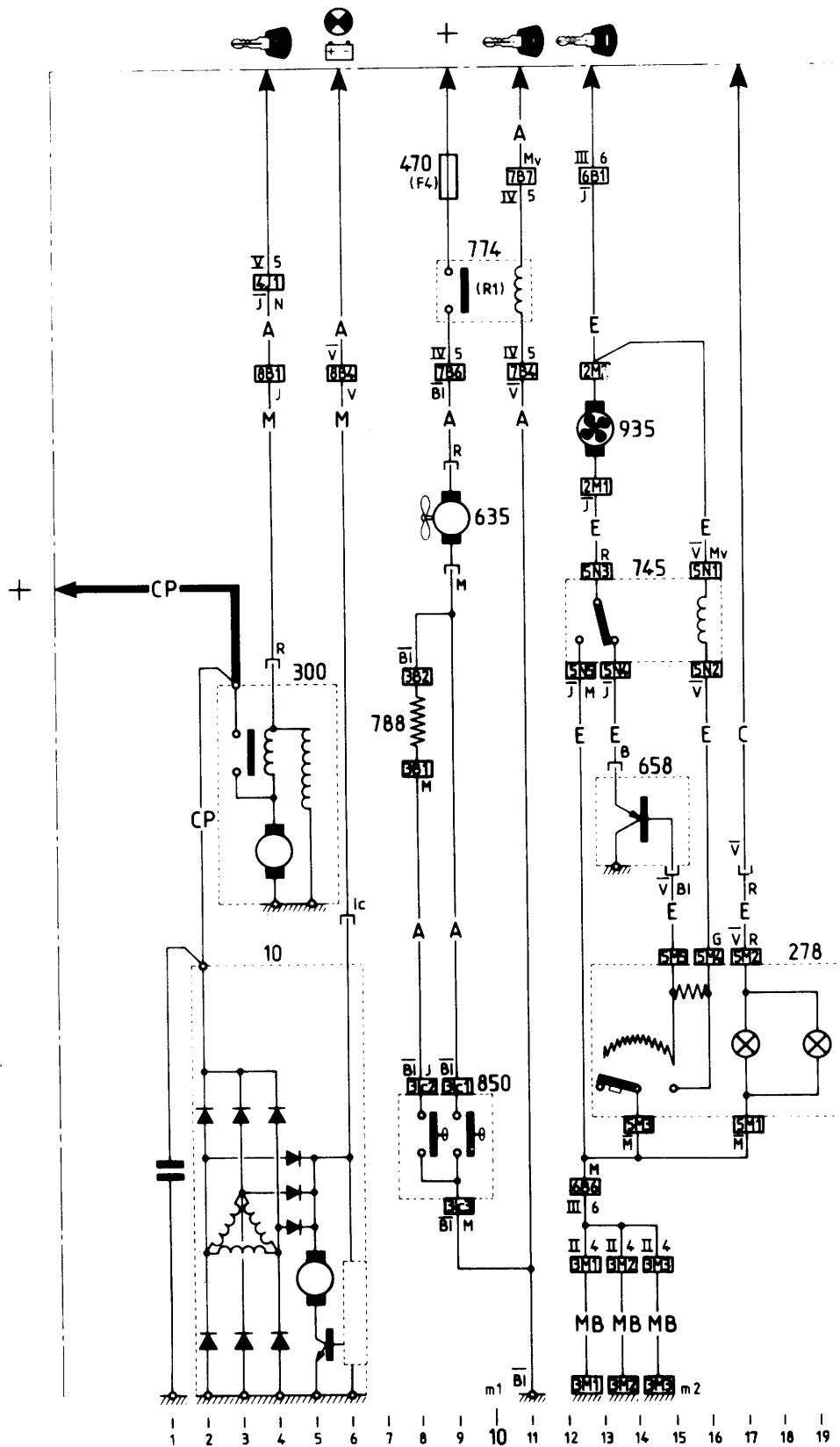


Diagram 6 - All models from 1987 - circuit II

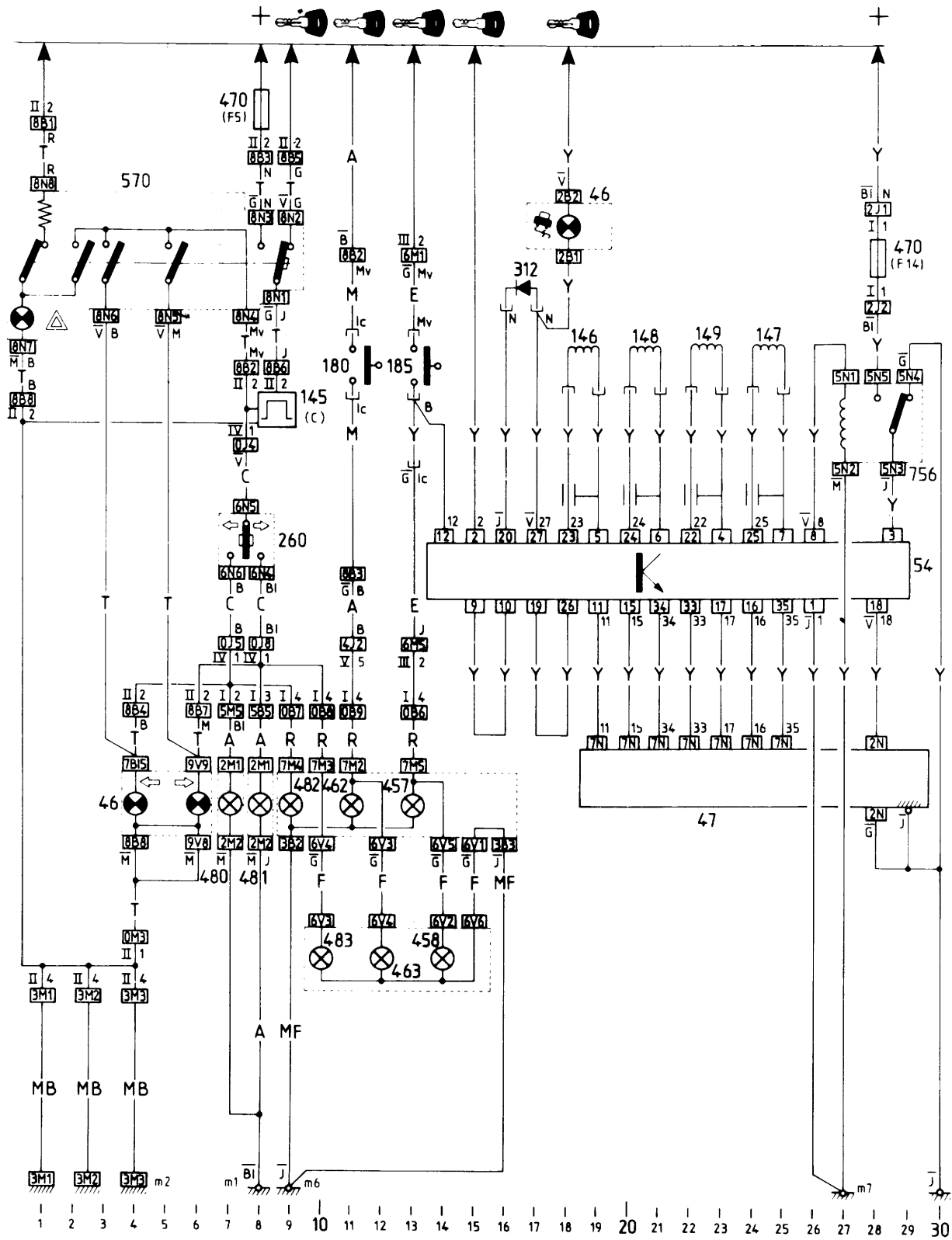


Diagram 6 - All models from 1987 - circuit IV

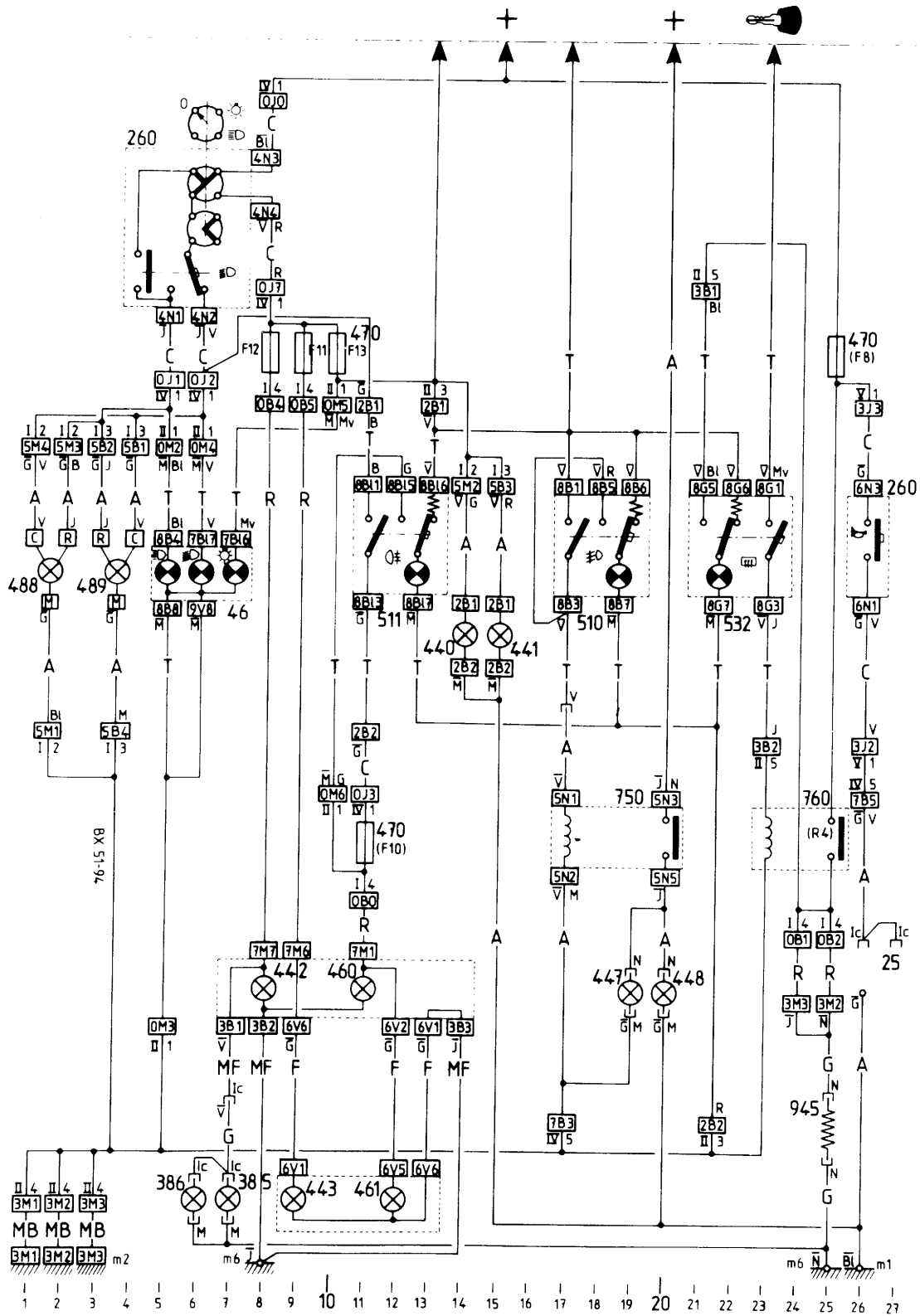


Diagram 6 - All models from 1987 - circuit VI

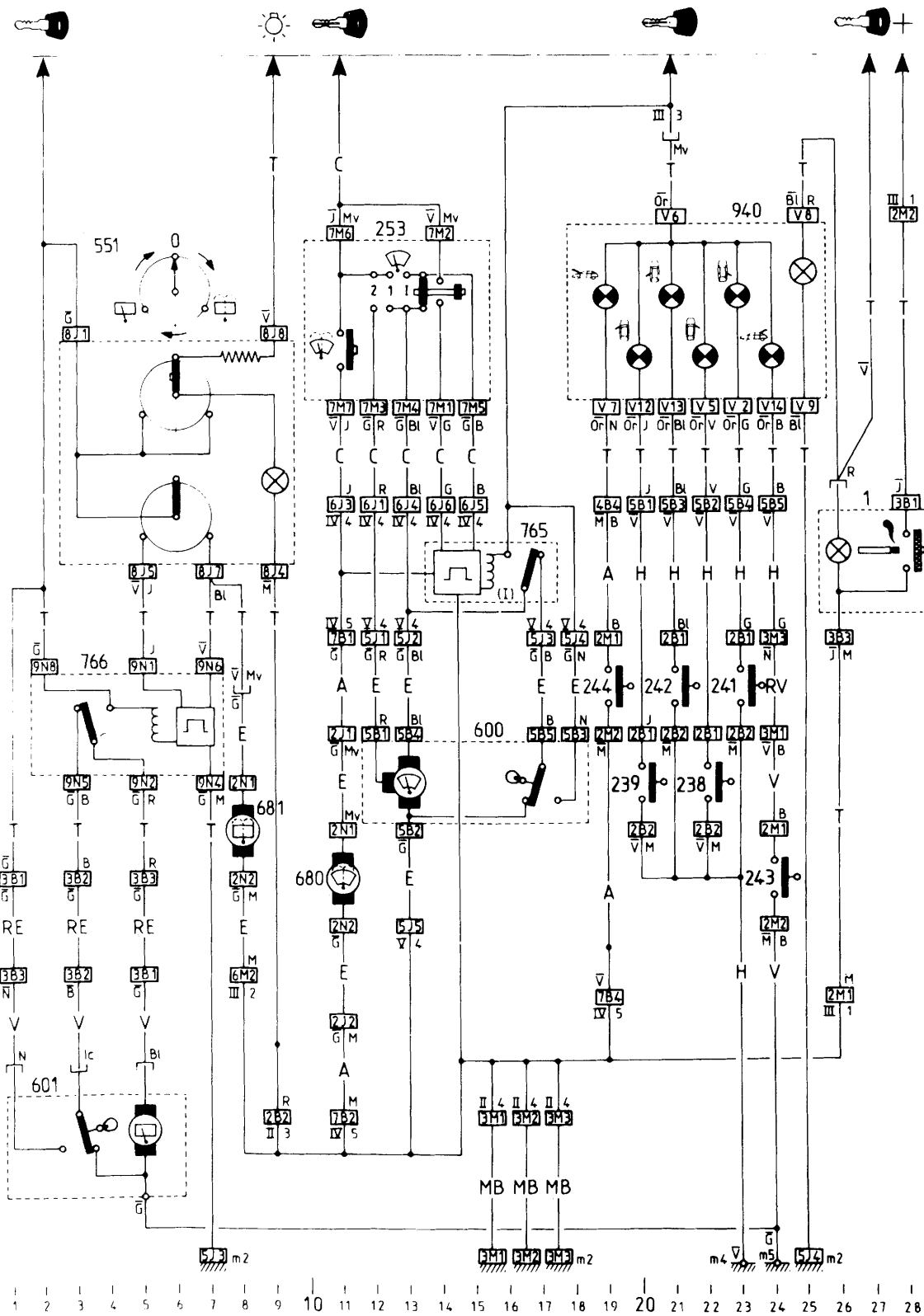


Diagram 6 - All models from 1987 - circuit VII

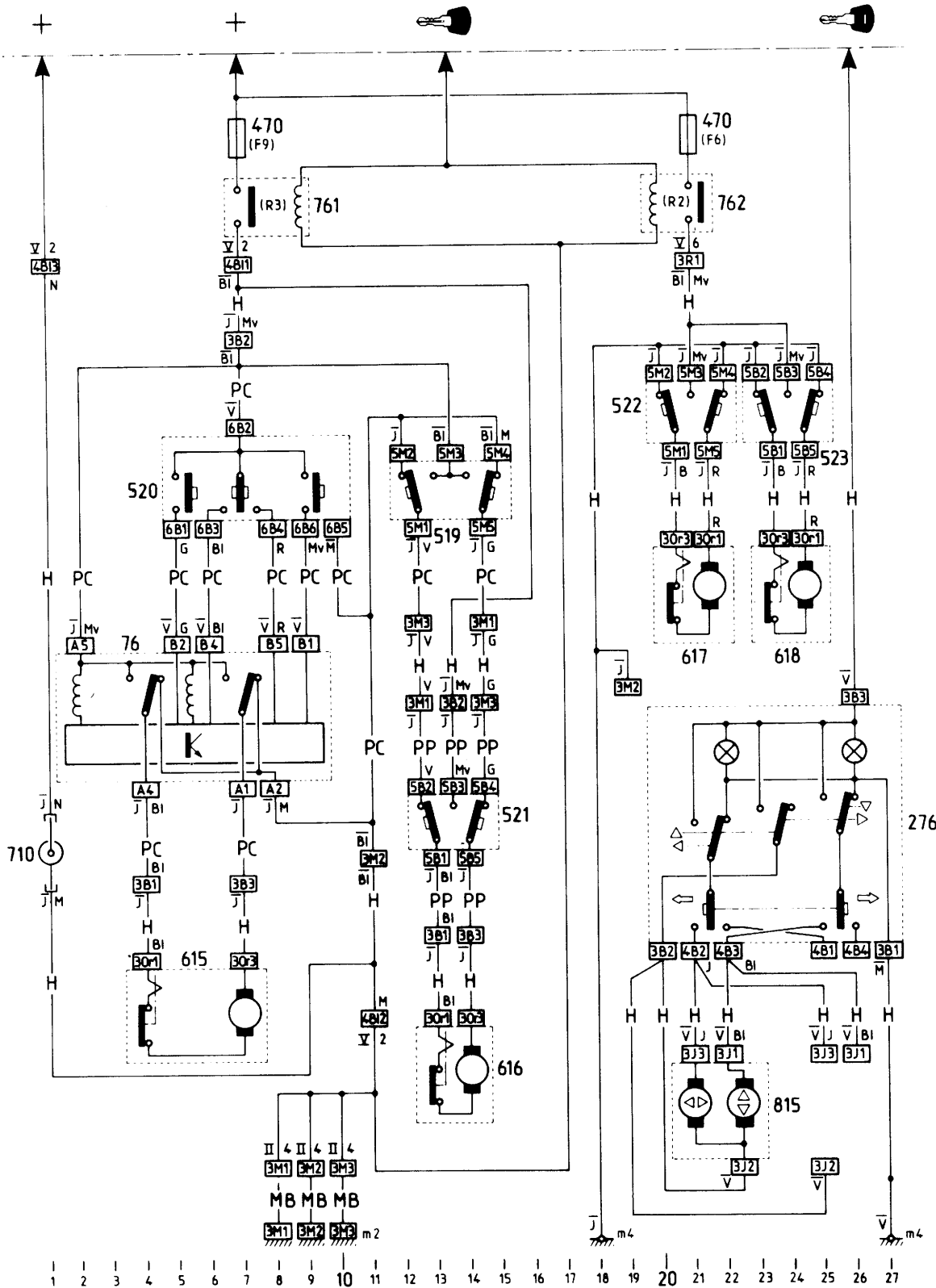


Diagram 6 - All models from 1987 - circuit VIII

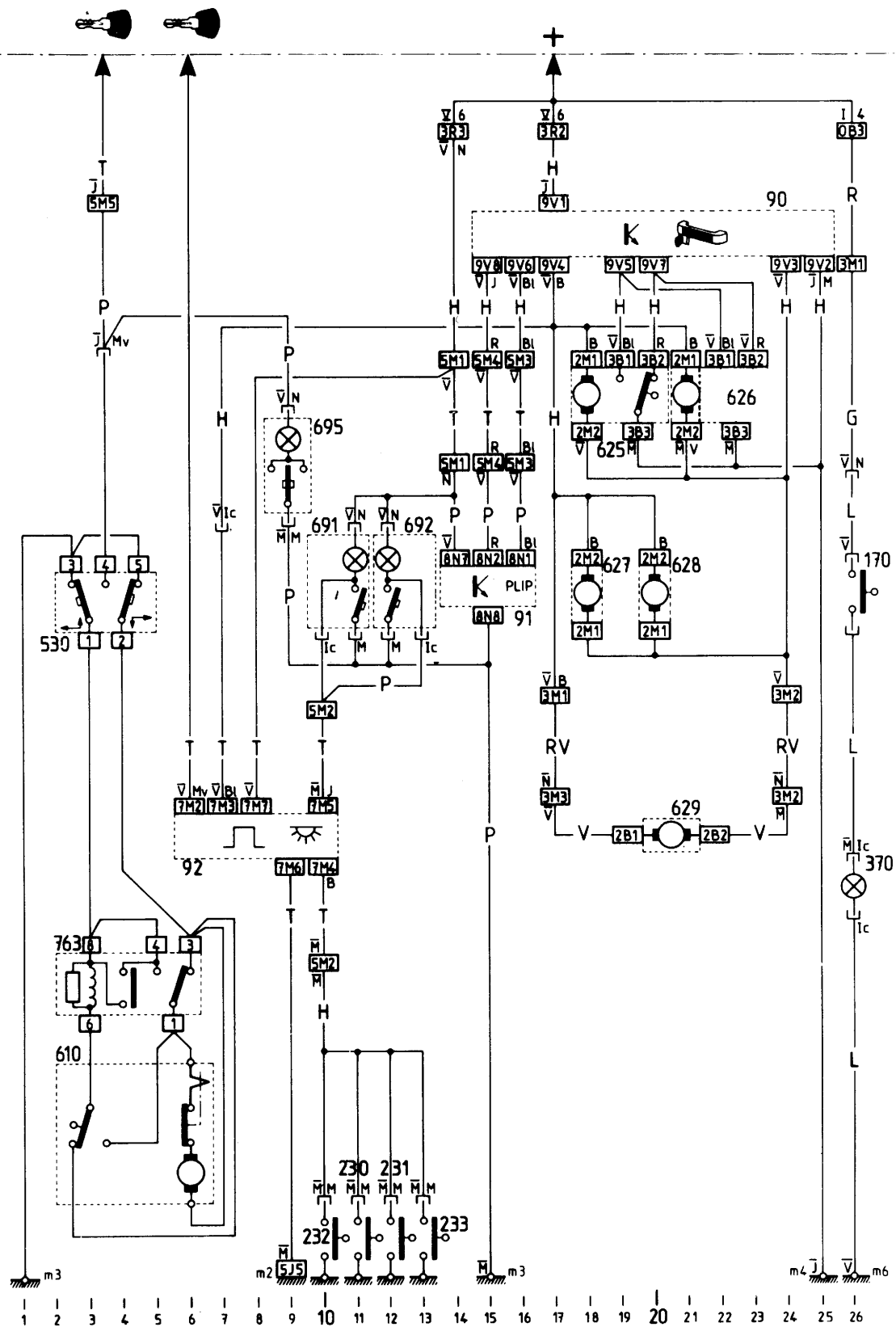


Diagram 6 - All models from 1987 - circuit IX

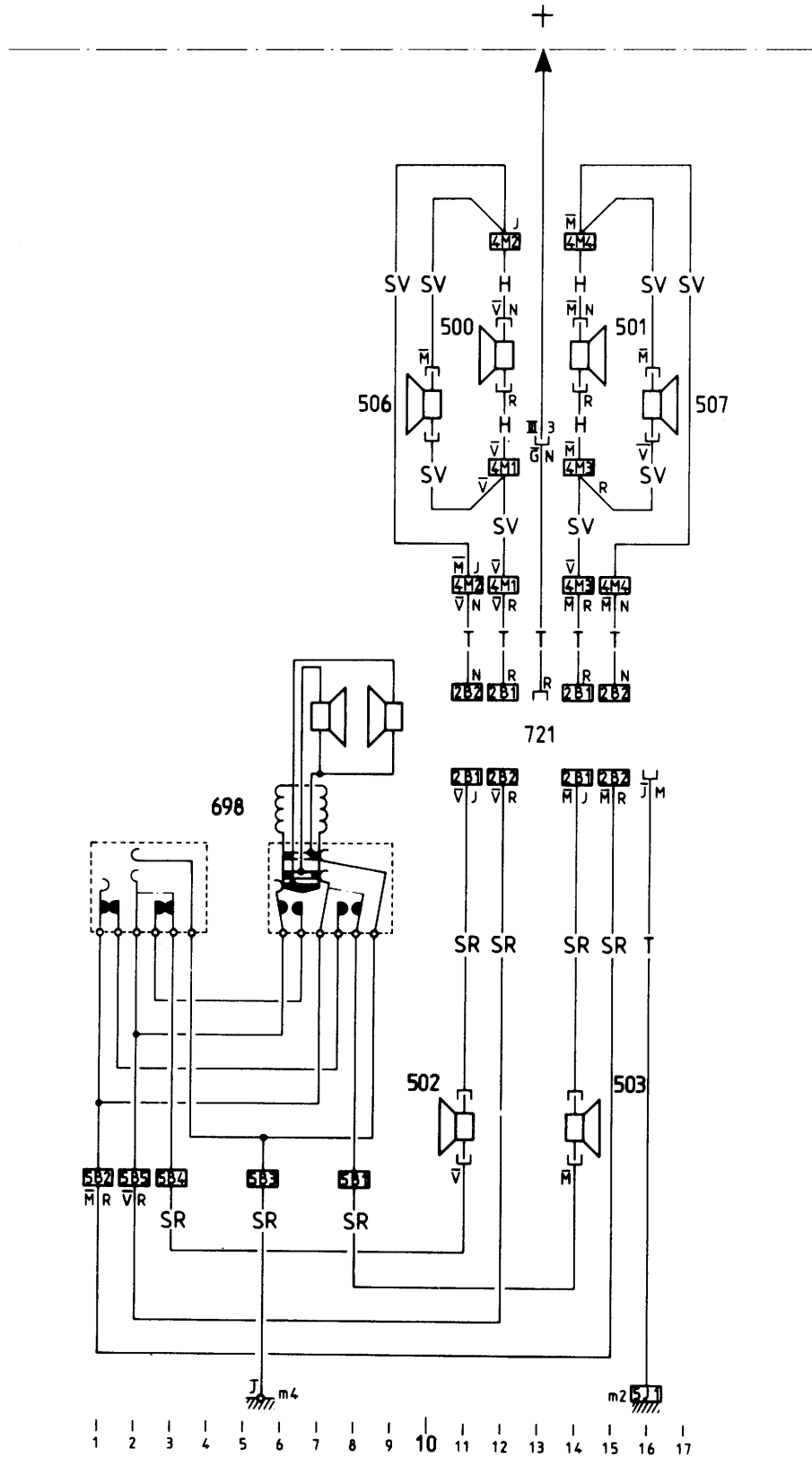


Diagram 6 - All models from 1987 - circuit X

Key to Diagram 6

No	Description	Circuit No	Location	No	Description	Circuit No	Location
1	Front cigar lighter/illumination	VII	26 to 28	386	RH rear number plate light	VI	6
5	Ignition distributor	V	1 to 5	430	LH front brake caliper	III	11 to 12
10	Alternator	II	1 to 6	431	RH front brake caliper	III	13 to 14
25	Horn	VI	26 to 27	440	LH front sidelight	VI	14
44	Digital display	V	20 to 23	441	RH front sidelight	VI	15
45	Battery	I	5	442	LH rear light	VI	8
46	Instrument panel	III	1 to 25	443	RH rear light	VI	9
46	Instrument panel	IV	4 to 6, 18	447	LH front foglight	VI	19
46	Instrument panel	VI	5 to 7	448	RH front foglight	VI	20
47	Hydraulic control unit for anti-lock braking system	IV	19 to 29	457	LH stop-light	IV	13
50	Ignition coil	V	3 to 4	458	RH stop-light	IV	14
57	Fuel calculator unit	V	18 to 19	460	LH rear foglight	VI	11
75	Ignition module	V	3 to 5	461	RH rear foglight	VI	12
76	LH front window winder control unit	VIII	2 to 9	462	LH reversing light	IV	11
84	Coolant level indicator unit	III	6 to 8	463	RH reversing light	IV	12
90	Door locking control unit	IX	15 to 25	470	Fuses F1, F2, F3, F7	I	15, 12, 34, 46
91	Remote control door locking unit	IX	14 to 16	470	Fuse F4	II	9
92	Interior light timer	IX	6 to 10	470	Fuse F5, F14	IV	8, 28
140	Distance sensor	V	19	470	Fuse F8, F10, F11, F12, F13	VI	8, 9, 10, 11, 25
142	Electronic control unit for injection	V	6 to 14	470	Fuse F6, F9	VIII	7, 21
145	Direction indicator unit (C)	IV	8 to 9	480	LH front direction indicator	IV	7
146	LH front wheel sensor	IV	18 to 19	481	RH front direction indicator	IV	8
147	RH front wheel sensor	IV	24 to 25	482	LH rear direction indicator	IV	9
148	LH rear wheel sensor	IV	20 to 21	483	RH rear direction indicator	IV	10
149	RH rear wheel sensor	IV	22 to 23	488	LH headlight	VI	1 to 2
168	Battery connector	I	2 to 6	489	RH headlight	VI	3 to 4
170	Boot light switch	IX	26	500	LH front loudspeaker	X	12
180	Reversing light switch	IV	11	501	RH front loudspeaker	X	14
185	Stop-light switch	IV	13	502	LH rear loudspeaker	X	11
190	Handbrake switch	III	10	503	RH rear loudspeaker	X	14
192	Throttle spindle switch	V	11 to 12	506	LH front tweeter loudspeaker	X	10
229	Ignition switch	I	7 to 34	507	RH front tweeter loudspeaker	X	16
230	LH front door switch	IX	11	510	Front foglight switch	VI	17 to 19
231	RH front door switch	IX	12	511	Rear foglight switch	VI	11 to 13
232	LH rear door switch	IX	10	519	RH window winder switch on driver's door	VIII	12 to 15
233	RH rear door switch	IX	13	520	LH window winder switch on driver's door	VIII	5 to 10
234	Glovebox switch	V	27	521	RH front window winder switch	VIII	13 to 14
235	Hydraulic fluid flow pressure switch	III	8	522	LH rear window winder switch	VIII	20 to 22
236	Hydraulic fluid level switch	III	9	523	RH rear window winder switch	VIII	23 to 25
237	Coolant level switch	III	6 to 7	530	Sunroof switch	IX	3 to 4
238	RH front door lock switch	VII	22	532	Heated rear window switch	VI	21 to 23
239	LH front door lock switch	VII	20	551	Rear screen intermittent wiper switch	VII	3 to 9
241	RH rear door lock switch	VII	23	570	Hazard warning light switch	IV	1 to 9
242	LH rear door lock switch	VII	21	576	Injectors	V	10, 11, 12, 13
243	Boot lock switch	VII	24	580	Fuel gauge	III	14 to 15
244	Bonnet lock switch	VII	19	600	Windscreen wiper motor	VII	12 to 18
253	Screen wiper/washer and computer switch	V	24 to 25	601	Rear screen wiper motor	VII	1 to 5
253	Screen wiper/washer and computer switch	VII	11 to 15	610	Sunroof motor	IX	3 to 6
260	Lighting/direction indicator/horn switch	IV	7 to 8	615	LH front window winder motor	VIII	4 to 7
260	Lighting/direction indicator/horn switch	VI	4 to 7, 26	616	RH front window winder motor	VIII	13 to 14
276	Rear view mirror switch	VII	20 to 27	617	LH rear window winder motor	VIII	21
278	Blower motor speed control	II	13 to 19	618	RH rear window winder motor	VIII	24
280	Additional air control	V	15	625	LH front door lock motor	IX	18 to 20
300	Starter motor	II	3 to 5	626	RH front door lock motor	IX	21
302	Airflow meter	V	11 to 14	627	LH rear door lock motor	IX	18
312	Anti-lock braking system diode	IV	16 to 17	628	RH rear door lock motor	IX	20
370	Boot light	IX	26	629	Boot lid lock motor	IX	20 to 21
375	Glovebox light	V	27	635	LH engine cooling fan motor	II	9
385	LH rear number plate light	VI	7	650	Engine oil pressure switch	III	5
				658	Blower fan control module	II	13 to 15
				660	On-board computer	V	19 to 26

Key to Diagram 6 (continued)

No	Description	Circuit No	Location	No	Description	Circuit No	Location
680	Windscreen washer pump	VII	11	762	Rear window winder motor relay (R2)	VIII	20 to 21
681	Rear screen washer pump	VII	8	763	Sunroof motor relay	IX	3 to 6
683	Fuel pump	V	17	765	Windscreen wiper relay (1)	VII	14 to 17
691	LH interior light	IX	10 to 11	766	Rear screen wiper relay	VII	2 to 7
692	RH interior light	IX	12 to 13	774	Engine cooling fan relay (R1)	II	9 to 11
695	Interior spotlights	IX	9	788	Cooling fan first speed resistor	II	8
698	Headphone sockets (2)	X	1 to 9	795	Lighting rheostat	I	19
710	Supply socket	VIII	1	815	RH front exterior mirror	VIII	21 to 23
721	Radio connections (12V and speakers)	X	11 to 16	835	Engine oil level gauge	III	19 to 20
731	Fuel injection relay	V	7 to 8	840	Coolant temperature sensor	III	18
734	Injector relays	V	9 to 10	841	Coolant temperature sensor (injection)	V	10
745	Blower motor high speed relay	II	13 to 16	842	Oil pressure sensor	III	17
750	Foglight relay	VI	17 to 20	843	Oil temperature sensor	III	16
756	Anti-lock braking system solenoid relay	IV	27 to 29	850	Cooling fan thermal switch	II	8 to 9
760	Heated rear screen relay (R4)	VI	23 to 25	855	Water temperature switch	III	3
761	Front window winder motor relay (R3)	VIII	7 to 9	935	Air conditioning fan	II	13
				940	Door closed label	VII	19 to 25
				945	Heated rear screen	VI	25

Harness code

A	Front	RE	Rear screen wiper
C	Switches	RV	Rear door locking
CN	Battery negative cable	SR	Radio (rear section)
CP	Battery positive cable	SV	Radio (front section)
E	Window wiper	T	Instrument panel
F	Rear light cluster connection	U	Brake pad wear
FP	Fuel pump	V	RH side tailgate
G	LH side tailgate	Y	Anti-lock braking system
H	Interior	Z	Ignition
IM	Injection		
J	Fuel gauge		
L	Boot lighting		
M	Engine		
M-B	Junction box earth		
M-F	Rear light cluster earth		
M-P	Fuel pump earth		
O	On-board computer		
P	Interior lighting		
PC	Driver's door		
PP	Passenger's door		
R	Rear		

Note: Letter/number codes appearing in small boxes on the diagrams convey multi-plug connector information. For example - "3M1": the first number is the number of wires at that connector (three), the letter is a connector colour code (M - Brown, as given below), and the last number is the wire number within the group of wires at the connector (one in a group of three).

Earthing points

m1	Behind battery
m2	Along LH side of the steering column
m3	Roof lighting
m4	Behind console
m5	RH rear lights
m6	LH rear lights
m7	LH front wheelarch

Colour code

B	White
Bl	Blue
G	Grey
Ic	Transparent
J	Yellow
M	Brown
Mv	Mauve
N	Black
Or	Orange
R	Red
V	Green

Key to Diagram 7

For colour code and other information, see key to Diagram 6

No	Description	No	Description
35	Battery	787	RH headlight
40	Instrument cluster	827	Dim-dip relay
50	Supply box	858	Dim-dip resistor unit
52	Power supply connector box		
211	LH combination switch		Harness code
300	Ignition switch	AV	Front
391	LH number plate light	CN	Battery negative cable
392	RH number plate light	CP	Battery positive cable
492	LH sidelight	ES	Windscreen wiper
493	RH sidelight	FR	Rear lights
506	LH tail light	MF	Lighting earth
507	RH tail light	PB	Dashboard
786	LH headlight	RG	Left-hand rear
		VG	Left-hand tailgate