



HEADLAMP WASHER

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HEADLAMP WASHER - Description

The headlamp washer device is responsible for washing the front windscreen and the headlamp lens. The headlamp washer function is operated automatically, with the dipped beams on, when the windscreen washer is operated by a stalk lever to the right of the steering wheel.

The headlamp washer device consists of a detergent delivery pump and a nozzle in the bumper that sprays a powerful jet onto the headlamp.

The headlamp circuit is protected by a special fuse and governed by an electronic timing device, both of which are located in the junction unit.

The timer operates the headlamp washer pump in a series of half-second pulses.

HEADLAMP WASHER - Functional description

The headlamp washer delay unit R3 is located in junction unit B1 .

It is supplied (pin P) directly by the battery (MAXIFUSE CENTR of B5) via fuse F12 of junction unit B1 ; pin 31 is earthed at C15 .

The device only works with the dipped headlamps on. In effect, when the dipped headlamps switch H6 is on, pin 6 of connector B of control unit M45 is supplied by the battery via the contact for R1 and fuse F13 .

Pin 9 connector C of control unit M45 receives a supply from the INT/A line via fuse F1 ; this line also supplies the coil for relay R1 of B1 .

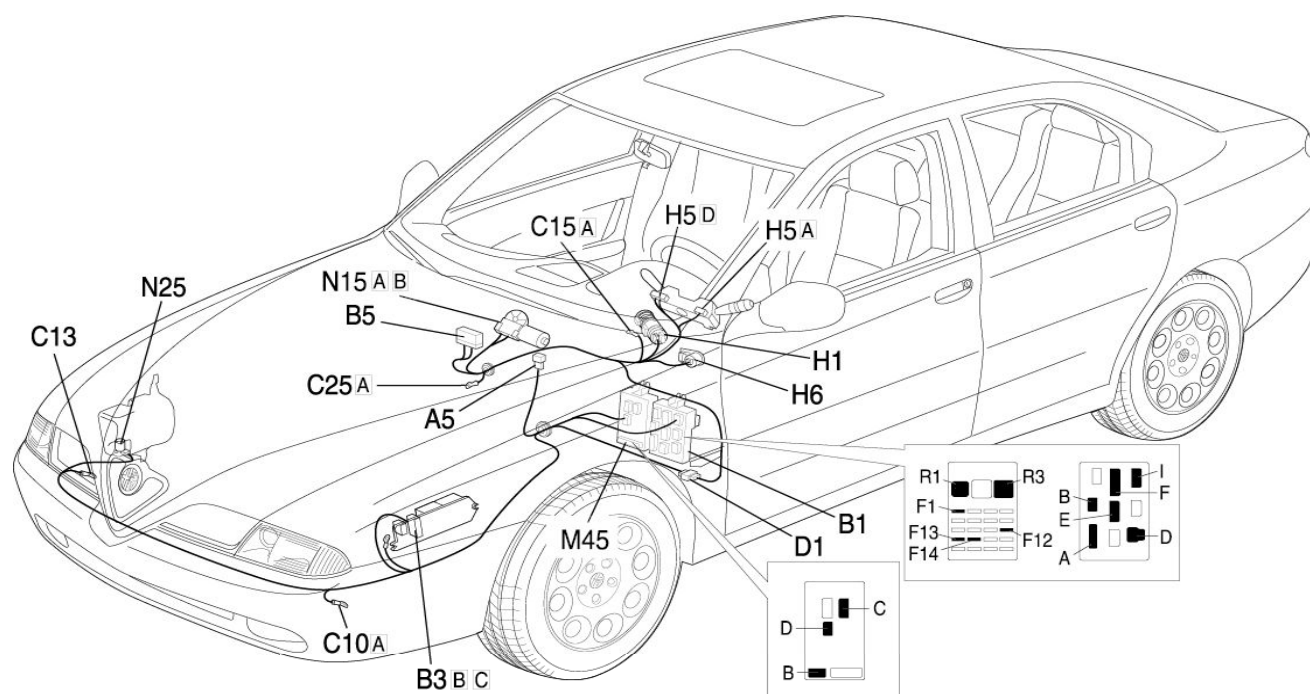
In this situation the control unit M45 supplies the coil for relay R1 of B3 from pin 5 of connector D; the contact for R1 supplies pin 56 of the headlamp washer timer R3 via fuse F7 .

When the windscreen washer/headlamp washer switch for the steering column switch unit H5 is closed, pins 1 and 4 of connector D of the windscreen wiper motor are short circuited; the device sends the command to the timer R3 at pin 30 via pin 3 of connector A.

If there are signals at pins 56 and 30 of R3 simultaneously, the latter supplies the headlamp washer electric pump motor N25 from pin 5.

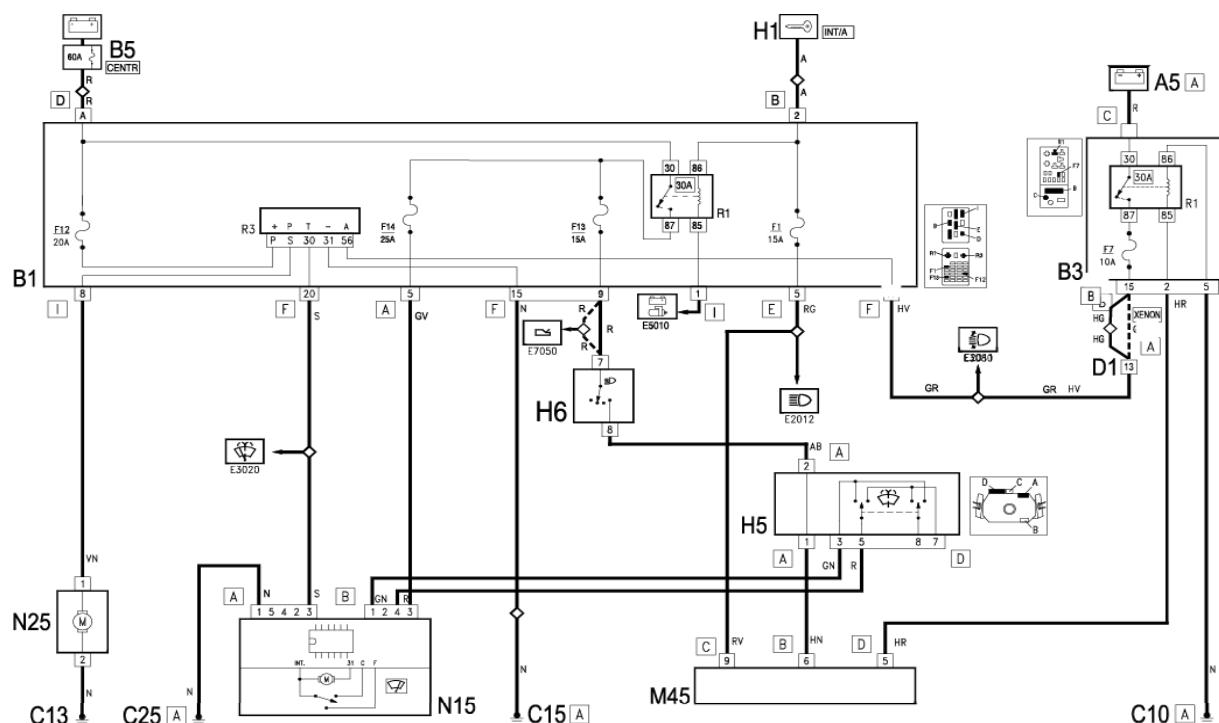
The supply for the windscreen wiper motor N15 is supplied by pin 3 of connector B from the contact for relay R1 via the fuse F14 . N15 receives an earth from pin 1 connector A.

HEADLAMP WASHER - Location of components



Component code	Name	Assembly reference
A5	Terminal board	-
B1	Junction unit	-
B1	Junction unit	5505A
B1	Junction unit	5505A
B2	Dashboard junction unit (CPL)	-
B2	Junction unit	-
B2	Junction unit	5505A
B3	Relay unit	5505A
B5	MAXI FUSE box	-
B99	Battery fuses junction unit (CBA)	5530B
C10	Front left earth	-
C11	Right front earth	-
C13	Front earth on left side panel	5505A
C15	Facia earth, driver's side	-
C25	Earth on steering column	-
D1	Front-dash-board coupling	-
D6	Rear - front coupling	-
D19	Dashboard / battery coupling	-
H1	Ignition switch	5520A
H5	Steering column switch unit	5550A
H6	Exterior lights control	5540A
M45	Electronic Check device	-
M45	Electronic Check device	5560C
N15	Windscreen wiper motor	-
N25	Headlamp washer pump motor	5540B
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N25	Headlamp washer pump motor	5540B
N25	Headlamp washer pump motor	5540B

HEADLAMP WASHER - Wiring diagram



Component code	Name	Assembly reference
A5	Terminal board	-
B1	Junction unit	-
B1	Junction unit	5505A
B1	Junction unit	5505A
B2	Dashboard junction unit (CPL)	-
B2	Junction unit	-
B2	Junction unit	5505A
B3	Relay unit	5505A
B5	MAXI FUSE box	-
B99	Battery fuses junction unit (CBA)	5530B
C10	Front left earth	-
C11	Right front earth	-
C13	Front earth on left side panel	5505A
C15	Facia earth, driver's side	-
C25	Earth on steering column	-
D1	Front-dash-board coupling	-
D6	Rear - front coupling	-
D19	Dashboard / battery coupling	-
H1	Ignition switch	5520A
H5	Steering column switch unit	5550A
H6	Exterior lights control	5540A
M45	Electronic Check device	-
M45	Electronic Check device	5560C
N15	Windscreen wiper motor	-
N25	Headlamp washer pump motor	5540B
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