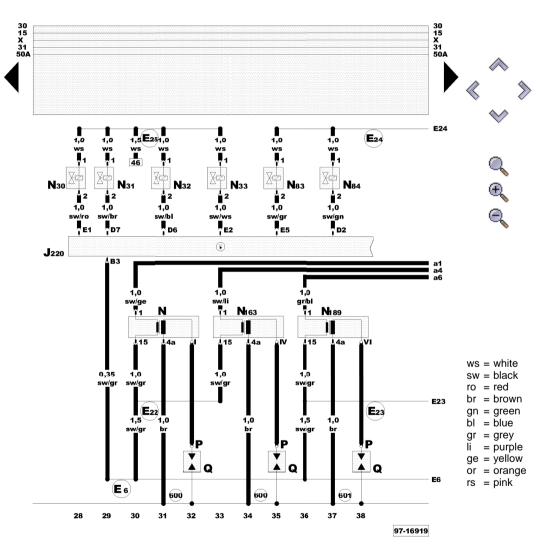
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Audi A8 Current Flow Diagram



Motronic control unit, ignition coils, injectors

J220 - Motronic control unit

N - Ignition coil

N30 - Injector, cylinder 1

N31 - Injector, cylinder 2 N32 - Injector, cylinder 3

N33 - Injector, cylinder 4

N83 - Injector, cylinder 5

N84 - Injector, cylinder 6

N163 - Ignition coil 4

N189 - Ignition coil 6

P - Spark plug connector

Q - Spark plugs

- Earth point, on cylinder head, right

- Earth point, on cylinder head, left

- Positive (+) connection -1- (15), in Motronic wiring harness

No. 46/4

- Connection (15, ignition right), in Motronic wiring harness

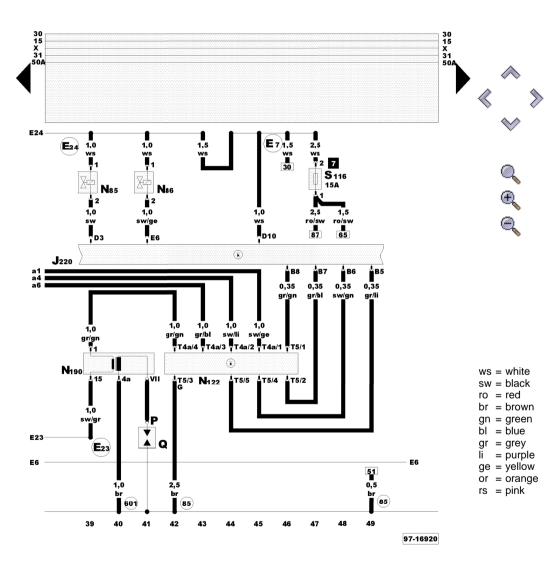
- Connection (15, ignition left), in Motronic wiring harness

- Connection (87a, left inlet valve), in Motronic wiring harness

- Connection (87a, right inlet valve), in Motronic wiring harness

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Audi A8 Current Flow Diagram No. 46 / 5



Motronic control unit, final output stage for ignition coils

J220 - Motronic control unit
N85 - Injector, cylinder 7
N86 - Injector, cylinder 8
N122 - Final output stage
N190 - Ignition coil 7

P - Spark plug connector

Q - Spark plugs S116 - Injector fuse

T4a - 4-pin connector, black, at output stageT5 - 5-pin connector, black, at output stage

- Earth connection -1-, in engine compartment wiring harness

- Earth point, on cylinder head, left

- Connection (87a), in Motronic wiring harness

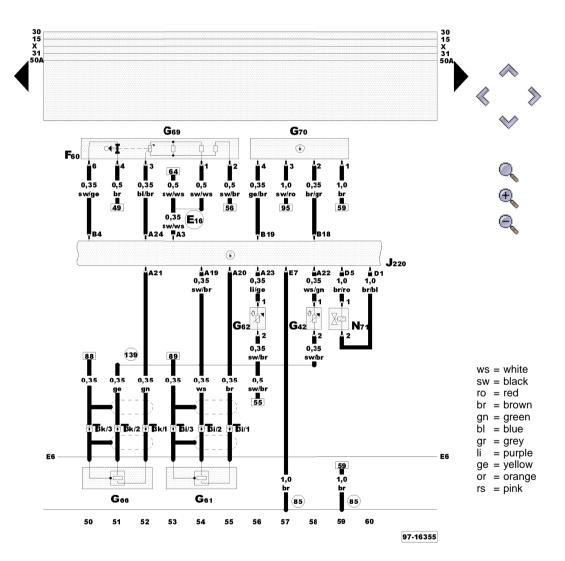
- Connection (15, ignition left), in Motronic wiring harness

- Connection (87a, left inlet valve), in Motronic wiring harness

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Audi A8 Current Flow Diagram

No. 46/6



Motronic control unit, throttle valve potentiometer, air mass meter

F60 - Idling switch

G42 - Intake air temperature sender

G61 - Knock sensor 1

G62 - Coolant temperature sender

G66 - Knock sensor 2

G69 - Throttle valve potentiometer

G70 - Air mass meter

J220 - Motronic control unit

N71 - Idling stabilization valve

T3i - 3-pin connector, green, at knock sensor 1

T3k - 3-pin connector, brown, at knock sensor 2

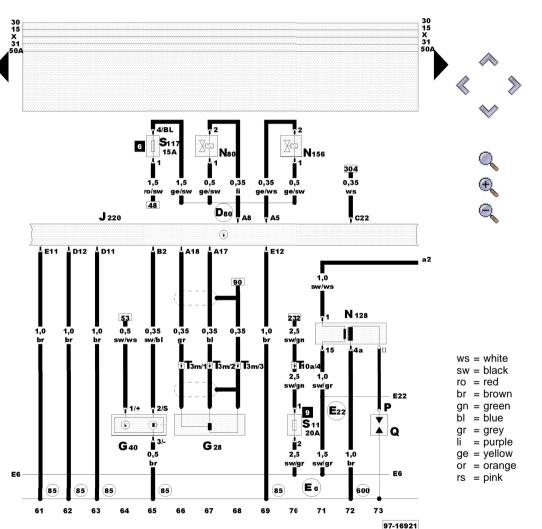
- Earth connection -1-, in engine compartment wiring harness

- Earth connection (sender earth), in Motronic wiring harness

- Positive (+) connection (5 volts), in Motronic wiring harness

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Audi A8 Current Flow Diagram



Motronic control unit, Hall senders, engine speed sender, ignition coil fuses

No. 46 / 7

G28 - Engine speed sender

G40 - Hall sender

J220 - Motronic control unit

N80 - Activated charcoal filter system solenoid valve 1 (pulsed)

N128 - Ignition coil 2

N156 - Intake manifold change-over valve

P - Spark plug connector

Q - Spark plugs

S115 - Ignition coil terminal 15 fuse

S117 - Control element fuse

T3m - 3-pin connector, grey, engine speed sender, in engine

compartment

T10a - 10-pin connector, black, connector point, electronics box,

plenum chamber

- Earth connection -1-, in engine compartment wiring harness

pierium chambei

- Earth connection - 1-, in engine compartment wining namess

- Earth point, on cylinder head, right

- Positive (+) connection (87a - for activated charcoal filter

system solenoid valve), in engine compartment wiring harness

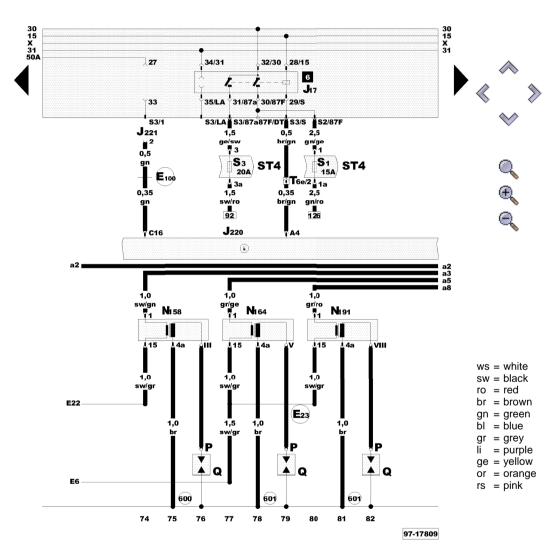
Harriess

- Positive (+) connection -1- (15), in Motronic wiring harness

- Connection (15, ignition right), in Motronic wiring harness

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Audi A8 Current Flow Diagram No. 46 / 8



Motronic control unit, fuel pump relay, ignition coils

J17 - Fuel pump relay

J220 - Motronic control unit

J221 - Selector lever lock control unit

N158 - Ignition coil 3 N164 - Ignition coil 5 N191 - Ignition coil 8

P - Spark plug connector

Q - Spark plugs

S1 - Fuse in fuse carrierS3 - Fuse in fuse carrier

T6e - 6-pin connector, brown, connector point, electronics box,

plenum chamber

- Earth point, on cylinder head, right

- Earth point, on cylinder head, left

- Connection (15, ignition left), in Motronic wiring harness

- Connection (multi-function switch), in dash panel wiring harness

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> ge = yellow or = orange rs = pink

97-16923

Audi A8

18 2,5 ro 110a/d 2,5 0, E87 E87 4 **J**27 147 0,35 137 0,35 160 0,35 1,0 0,35 0,35 ro/bl 2,5 ro 0,35 Δ2 C12 C13 C11 D50 **J**220 B15 B16 E10 77 B13 åB24 0,35 qr/ro sw/ro gr/ge ∰**T**10/4 1,5 ((E₂₇) 1,0 sw/ro r/ro gr/ge sw/gn sw/ws TT4b/4 TT4b/3 TT4b/2 TT4b/1 TT5a/1 E27 E28 E28 1,0 N₁₉₂ ws = whiteLT5a/3 LT5a/5 LT5a/4 LT5a/2 sw = black ro = redbr = browngn = green bl = blue灬 λ gr = grey 0,35 = purple 0,35 **Z**19 **G** 39 0,35

(E 8)

0,35

No. 46/9 **Current Flow Diagram**

Motronic control unit, Motronic current supply relay, ignition coils for output stages, lambda probes with heating

- Control and display unit for air conditioner E87

G39 - Lambda probe

- Motronic control unit J220

J271 - Motronic current supply relay

N192 - Final output stage 2

T4b - 4-pin connector, brown, on ignition final output stage

- 4-pin connector, black, lambda probe, right T4m

T5a - 5-pin connector, brown, at output stage

T10 - 10-pin connector, blue, connector point, electronics box,

plenum chamber

T10a - 10-pin connector, black, connector point, electronics box,

plenum chamber

Z19 - Lambda probe heater

- Earth connection -1-, in engine compartment wiring harness 85

- Positive (+) connection (30), in engine compartment wiring D50

harness

- Connection (screening), in Motronic wiring harness E8

- Connection (lambda probe signal), in Motronic wiring harness E27

- Connection (lambda probe heating), in Motronic wiring E28

harness

- Models with air conditioner

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Audi A8

F 125 J 220 å B20 å B23 1,0 gn/sw T6e/6 0,35 (E27) gn/ge E27 (**k**) 1,0 ws = white sw/ro sw = black **J**362 ro = redbr = brownqn = qreen0,35 bl = blue λ $\neg nn$ gr = grey = purple **G** 108 **Z**28 ge = yellow or = orange (E 8) rs = pinkE105 (85) 100 101 102 103 104 105 106 107 108 109 110

97-17810

Current Flow Diagram No. 46 / 10

Motronic control unit, automatic gearbox control unit, lambda probe 2, immobilizer

D2 - Immobilizer reading coil F125 - Multi-function switch G108 - Lambda probe 2

J217 - Automatic gearbox control unit

J220 - Motronic control unit J362 - Immobilizer control unit

T4n - 4-pin connector, black, near lambda probe 2

T6e - 6-pin connector, brown, connector point, electronics box,

plenum chamber

Z28 - Lambda probe 2 heater

- Earth connection -1-, in engine compartment wiring harness

- Connection (screening), in Motronic wiring harness

- Connection (lambda probe signal), in Motronic wiring harness

_{E105} - Earth connection, in dash panel wiring harness, left