

VX220 Wiring Diagrams

Welcome to Rally's VX220 wiring diagram resource. What I've done is to raid all the individual wiring PDFs listed on the Speedsterclub.nl site and combined them into one big PDF to make it easier to chase a circuit through. You will probably still need to consult the site for documents to see how the components fit in the car.

How to read the diagrams

A single circuit will run from the battery positive terminal to negative terminal via a grounding point. In the diagrams, wiring generally 'flows' from top to bottom on each page but more often than not a single circuit will extend over more than one page, in which case a wire will be linked by a box with a number in it. The number corresponds to the grid markings on the bottom of each diagram and tells you where to pick it up. The first diagram's grid starts 100, the second 200 and so on.

For example: If you look on the first page, you can trace the Airbag (AB) circuit from the battery (G1), along wire 30, through the main fuse (FL1) to the ignition switch (S1) out along wire 15 and down to a box marked 1418. This is then picked up on diagram 14 where you will see a box at the top of grid line 1418 marked 130 (which tells us where the circuit came from). The circuit continues down diagram 14 to the airbag control unit (A1) and eventually to grounding point 5.

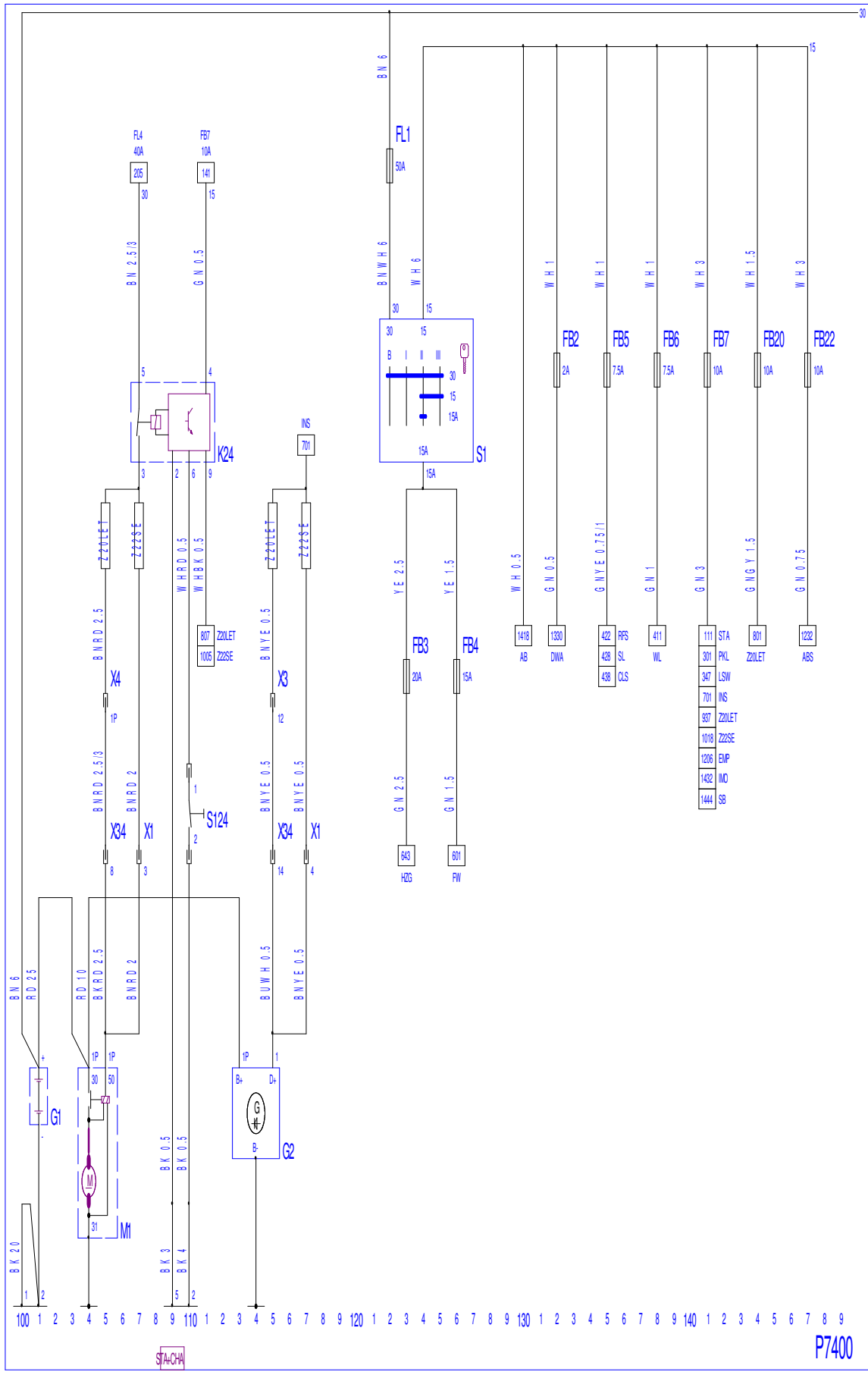
Components are labeled with a code in bigger letters and systems in smaller letters.

Every wire is marked with a colour code and may be a single colour or a base colour/stripe colour. The wire is also marked with its size in mm².

As always with these things, this is only a guide and I will not be held responsible for anything you do to your car!

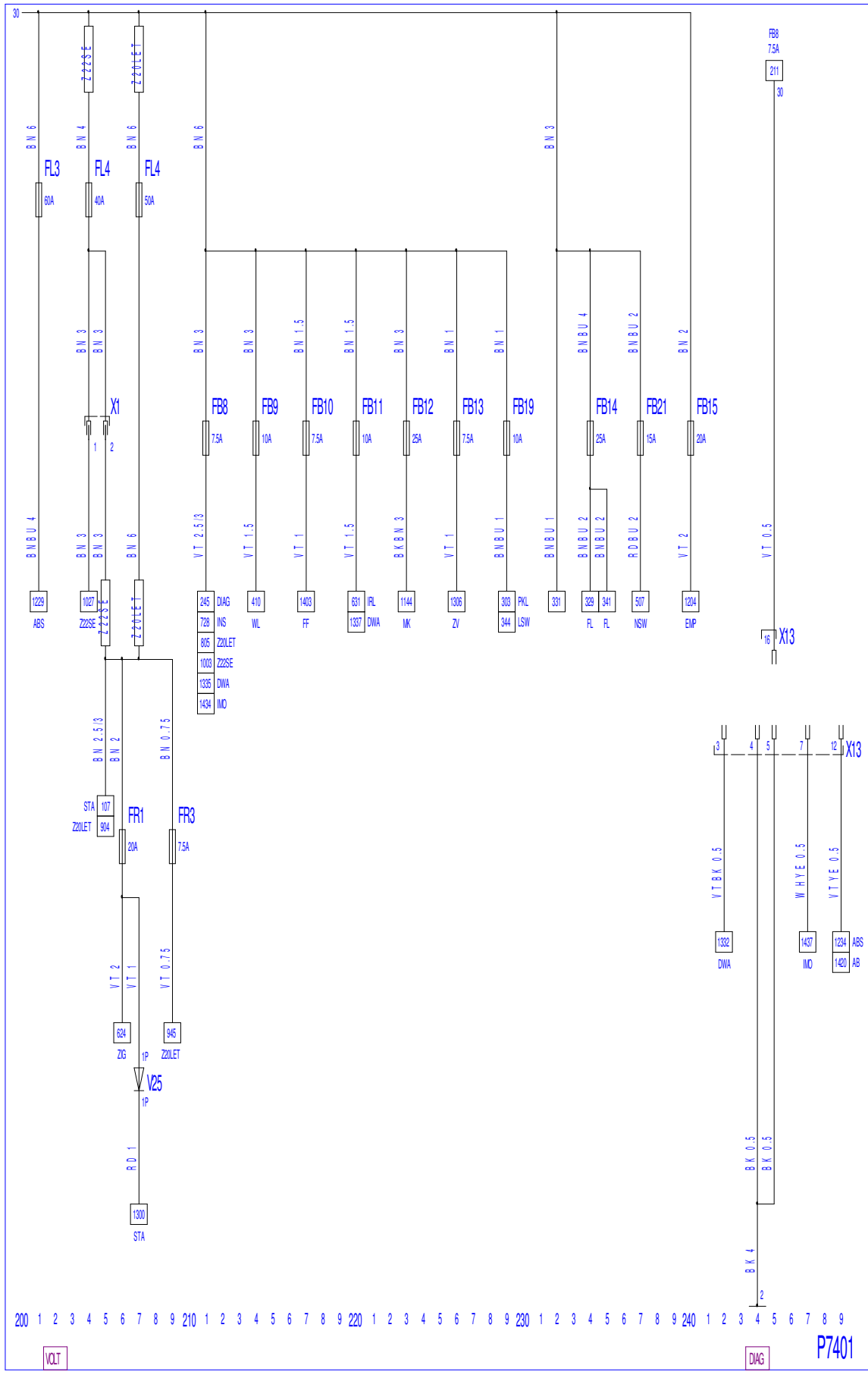
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Diag 5	500 – Front fog lamps/Rear lamps
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Diag 11	1100 – Z22SE Engine management II/Fuel cutoff/Fuel pump/Rad fan
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STACHA
VOLT

P7400

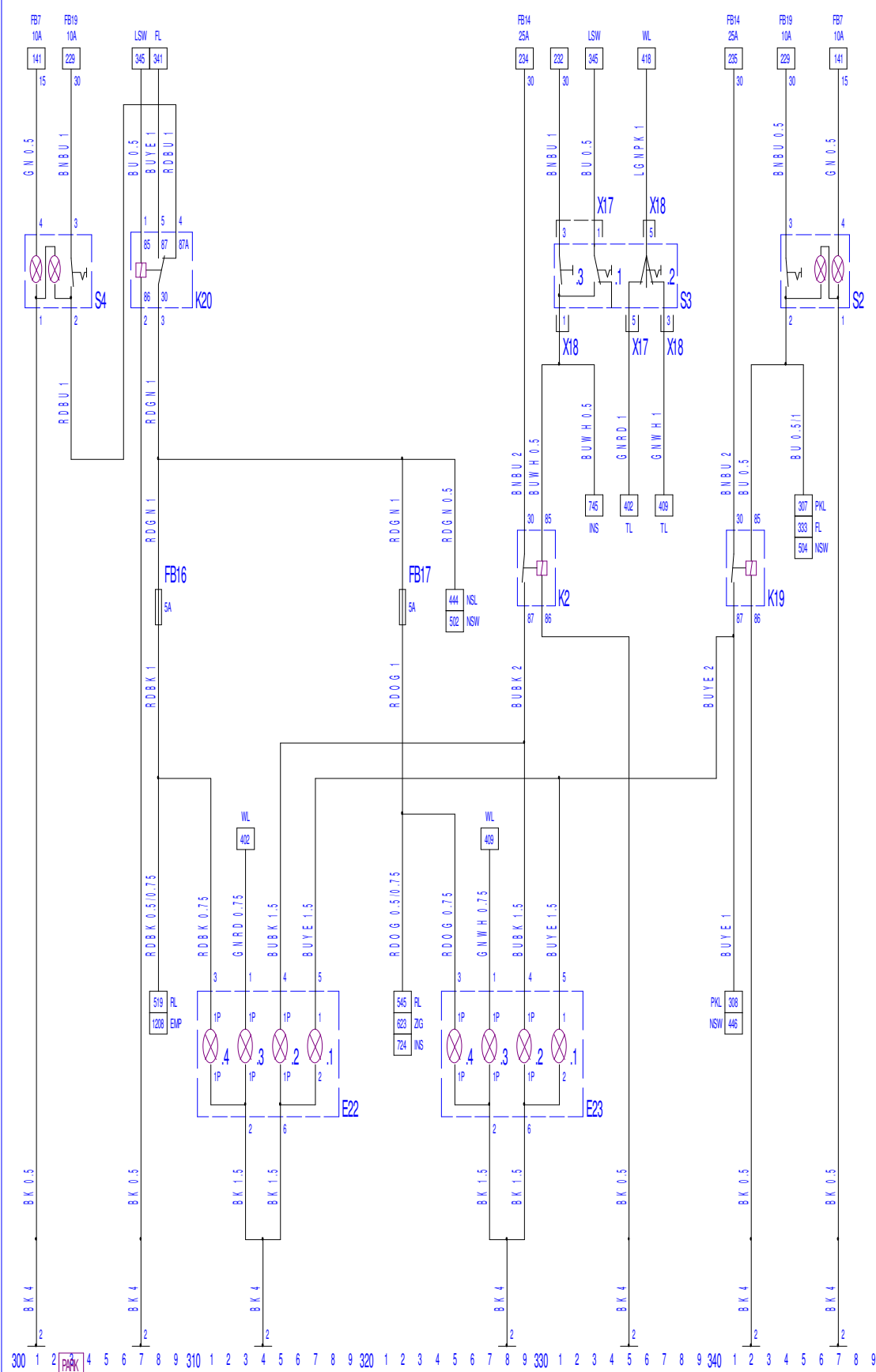


200 1 2 3 4 5 6 7 8 9 210 1 2 3 4 5 6 7 8 9 220 1 2 3 4 5 6 7 8 9 230 1 2 3 4 5 6 7 8 9 240 1 2 3 4 5 6 7 8 9

VCLT

DIAG

P7401



300 1 2 3 4 5 6 7 8 9 310 1 2 3 4 5 6 7 8 9 320 1 2 3 4 5 6 7 8 9 330 1 2 3 4 5 6 7 8 9 340 1 2 3 4 5 6 7 8 9

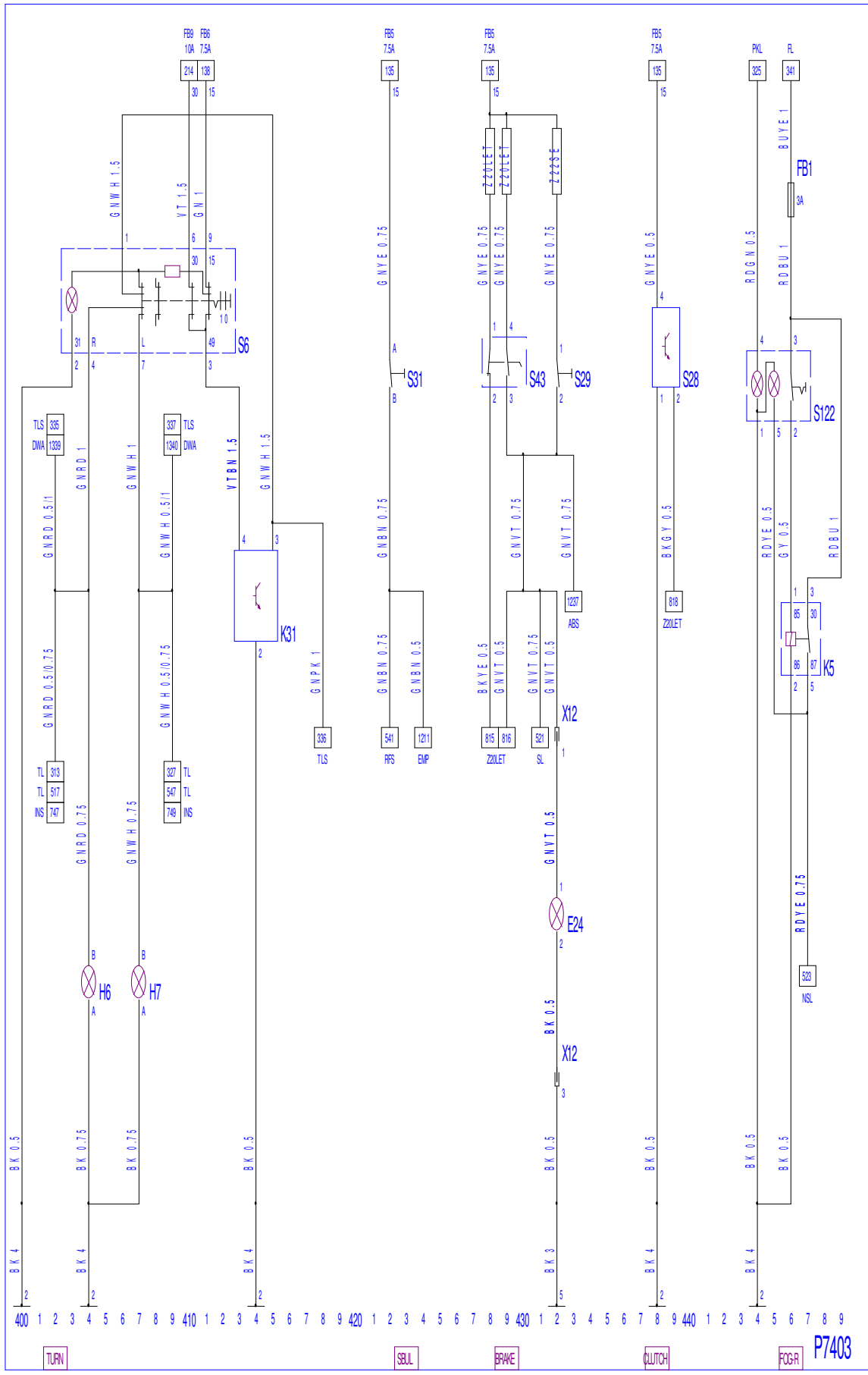
PKK

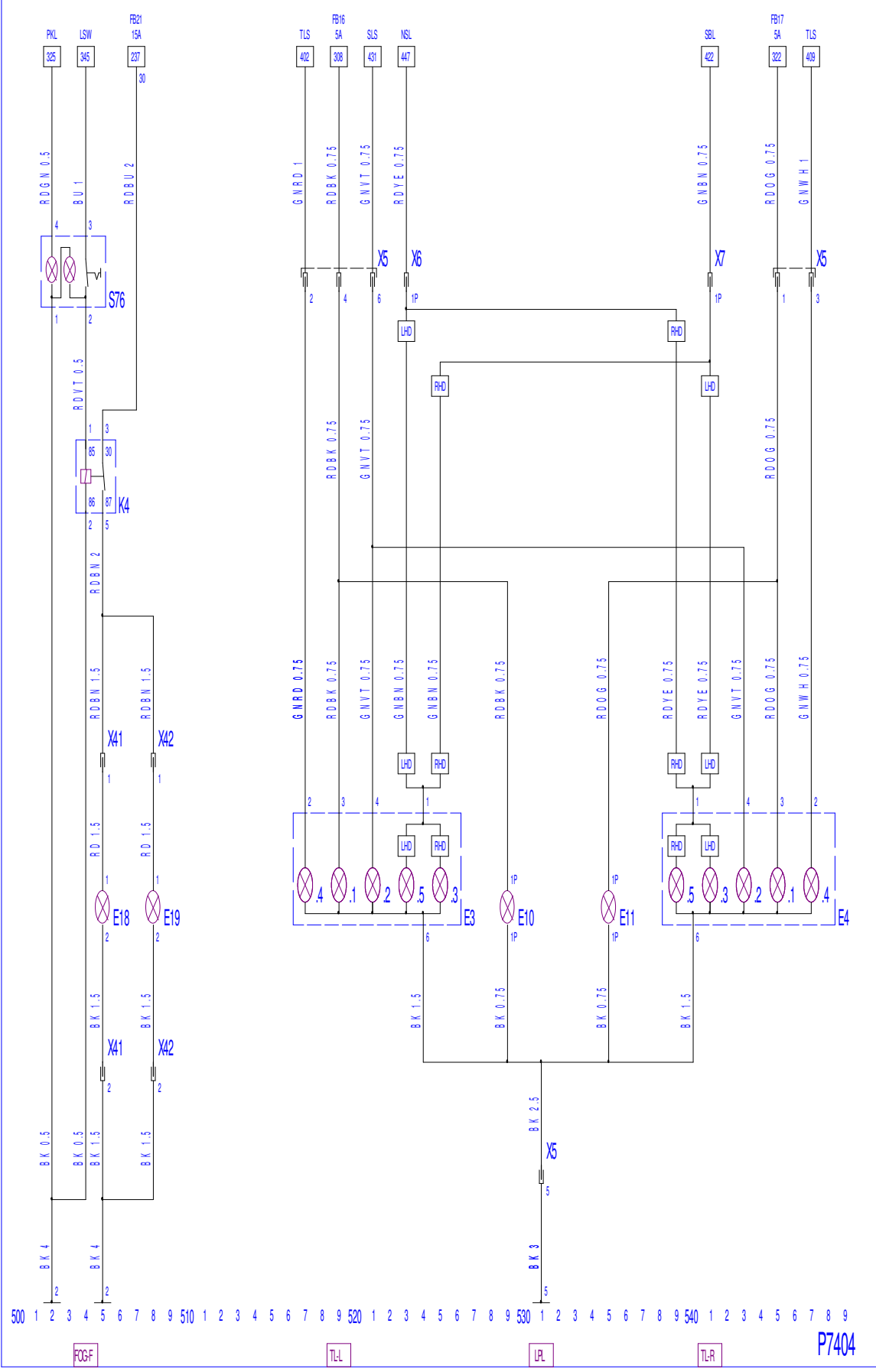
H-B

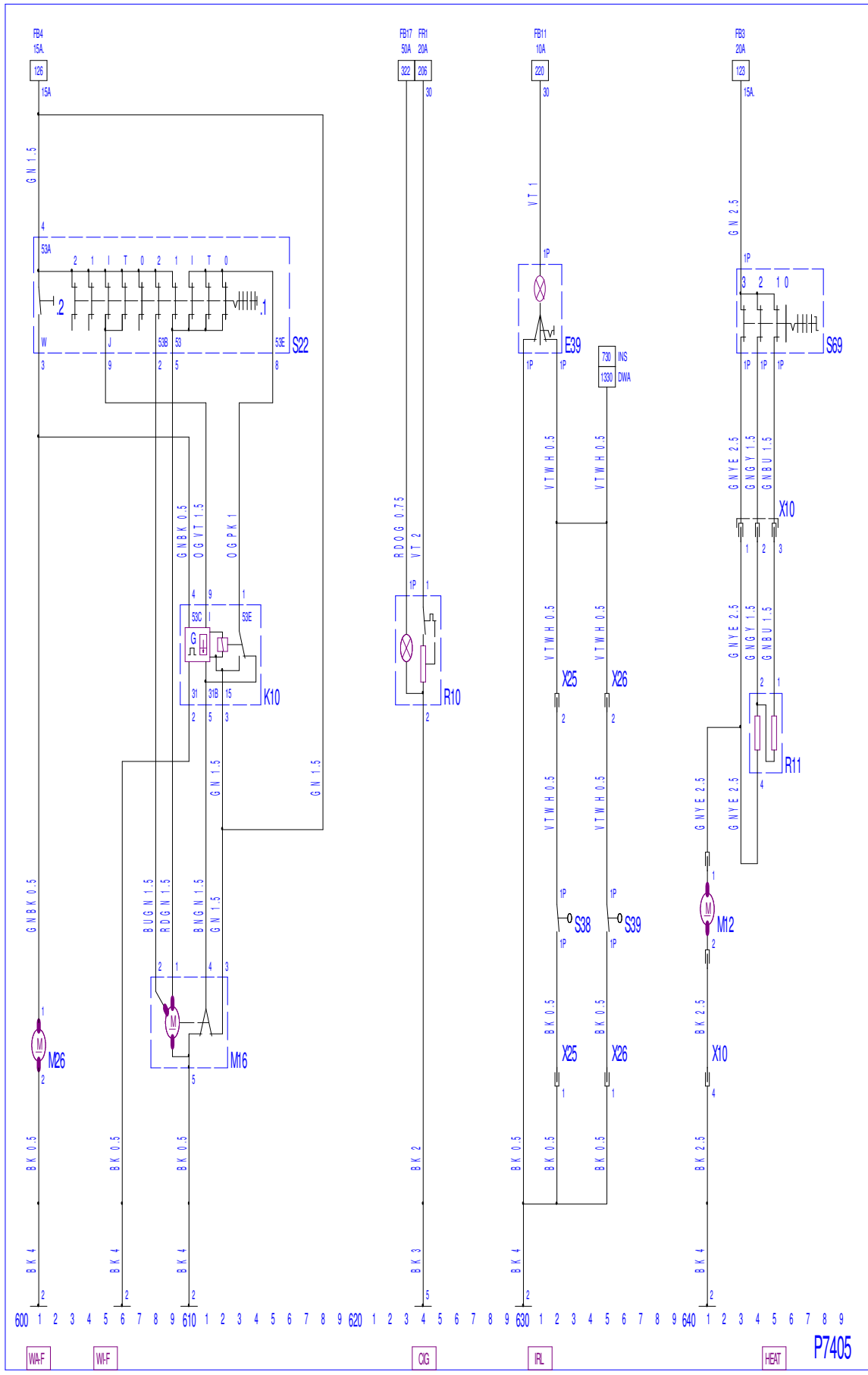
LSW

P7402

LOB

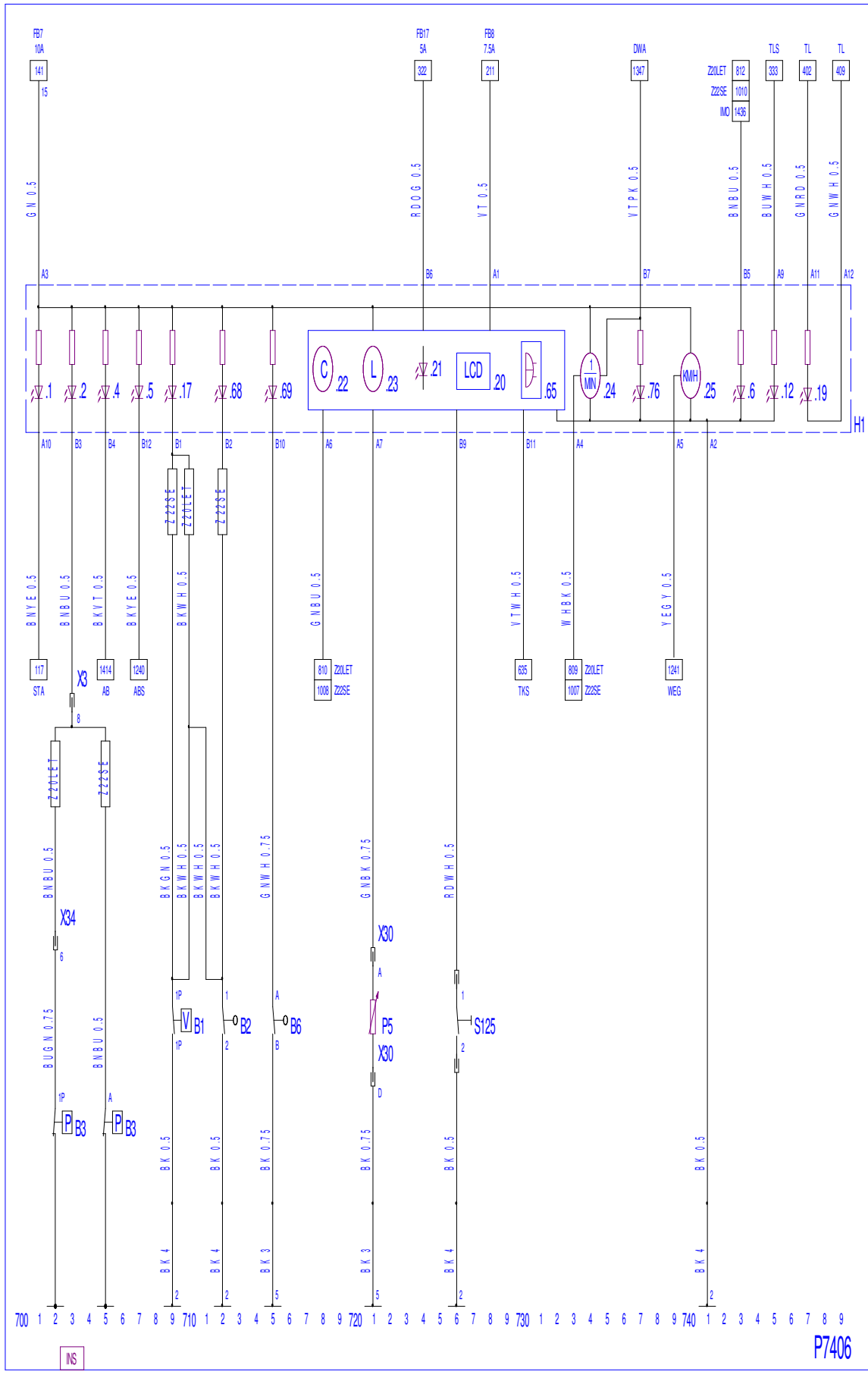






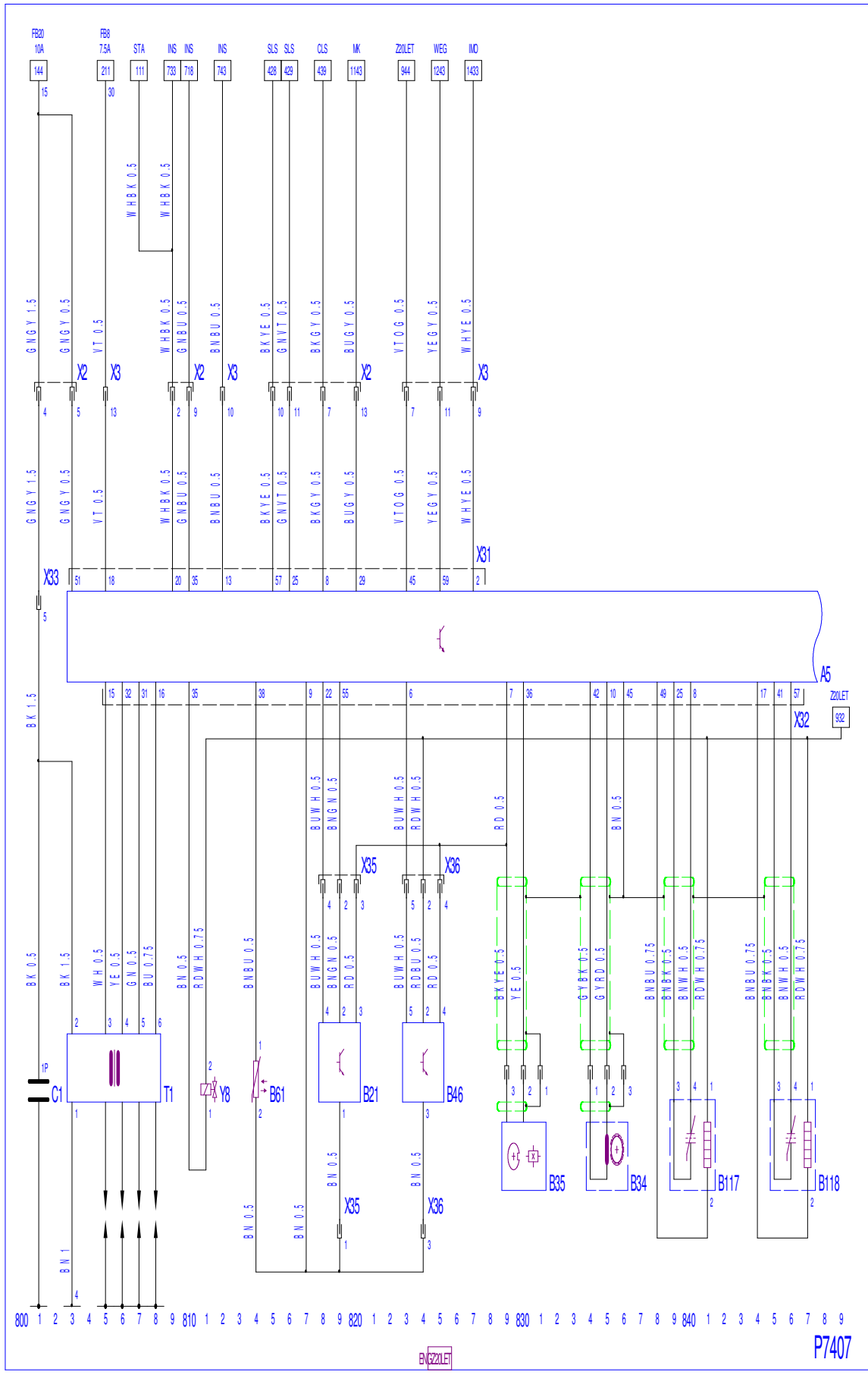
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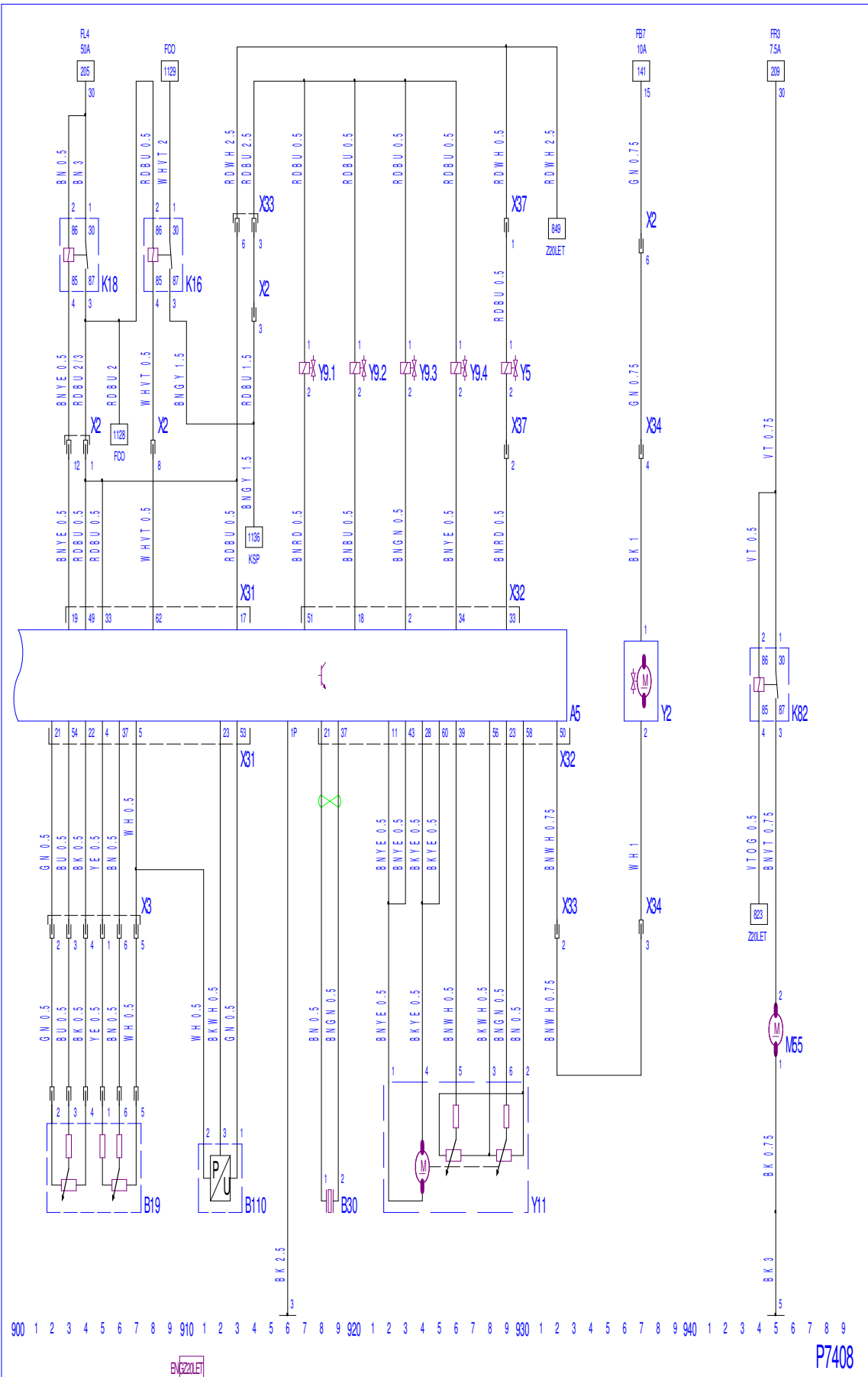
DCS



NS

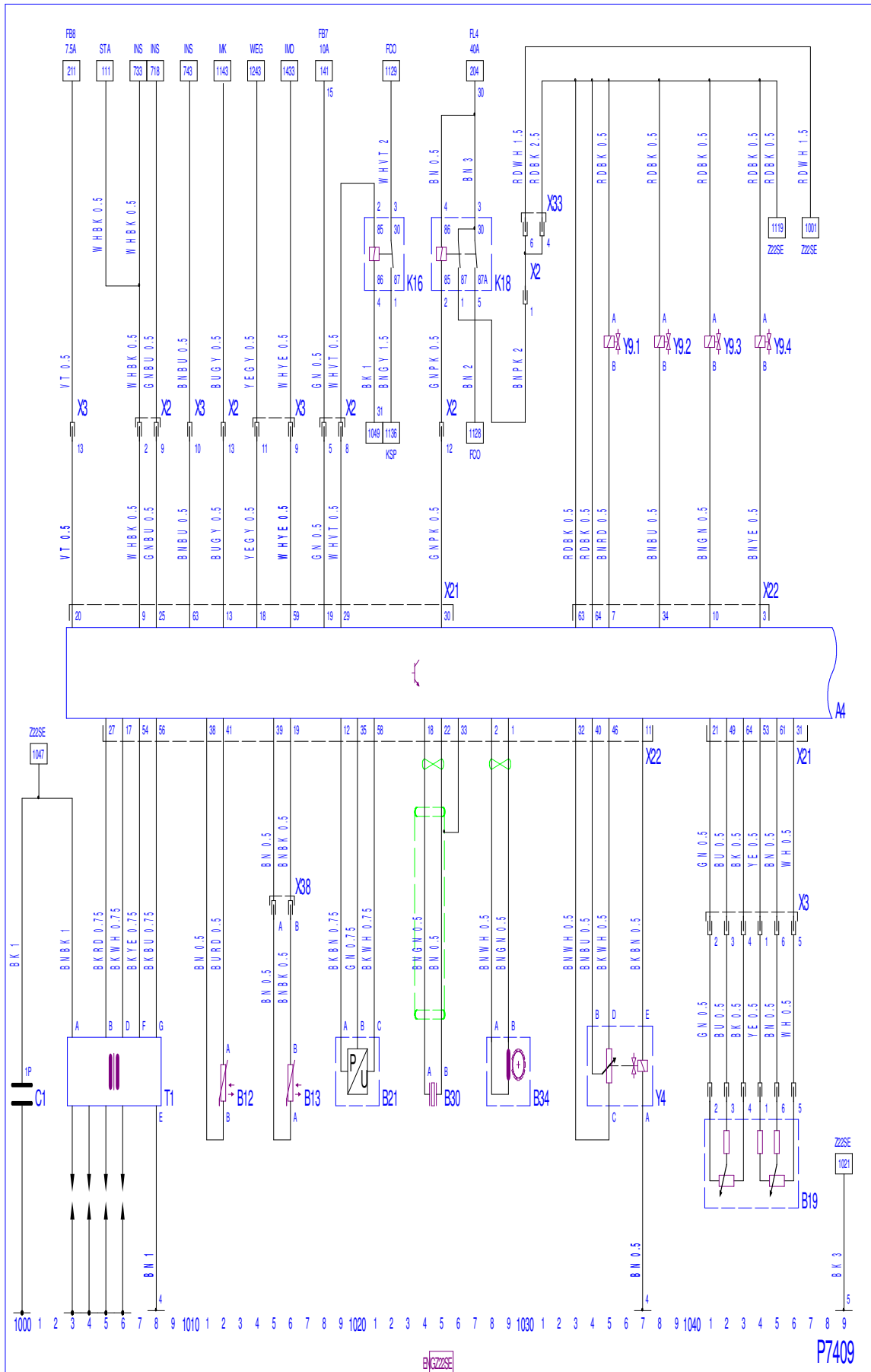
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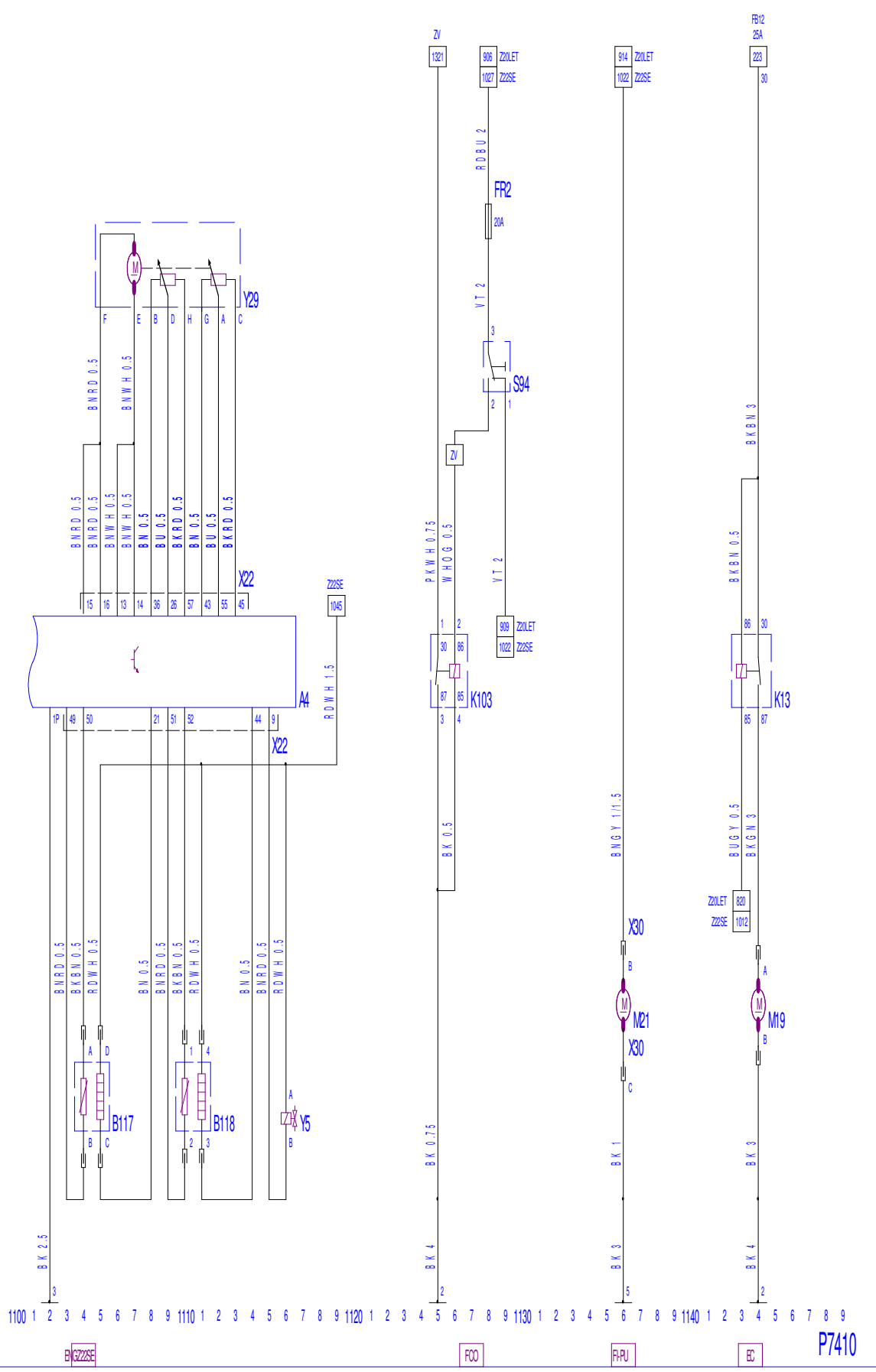
BNGZZULET

P7408



E/C2ZSSE

P7409



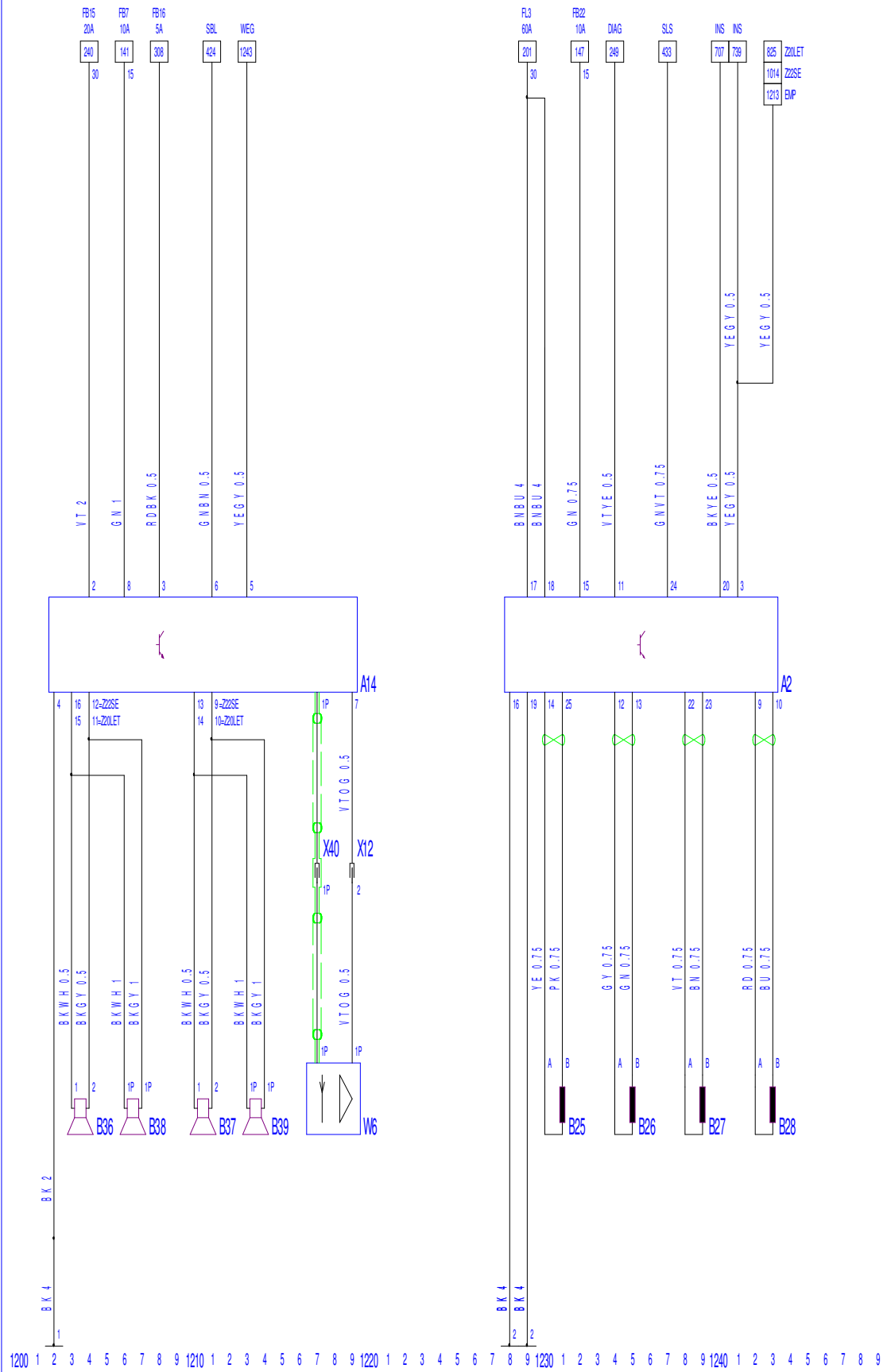
BZ2ZSE

FCO

FRU

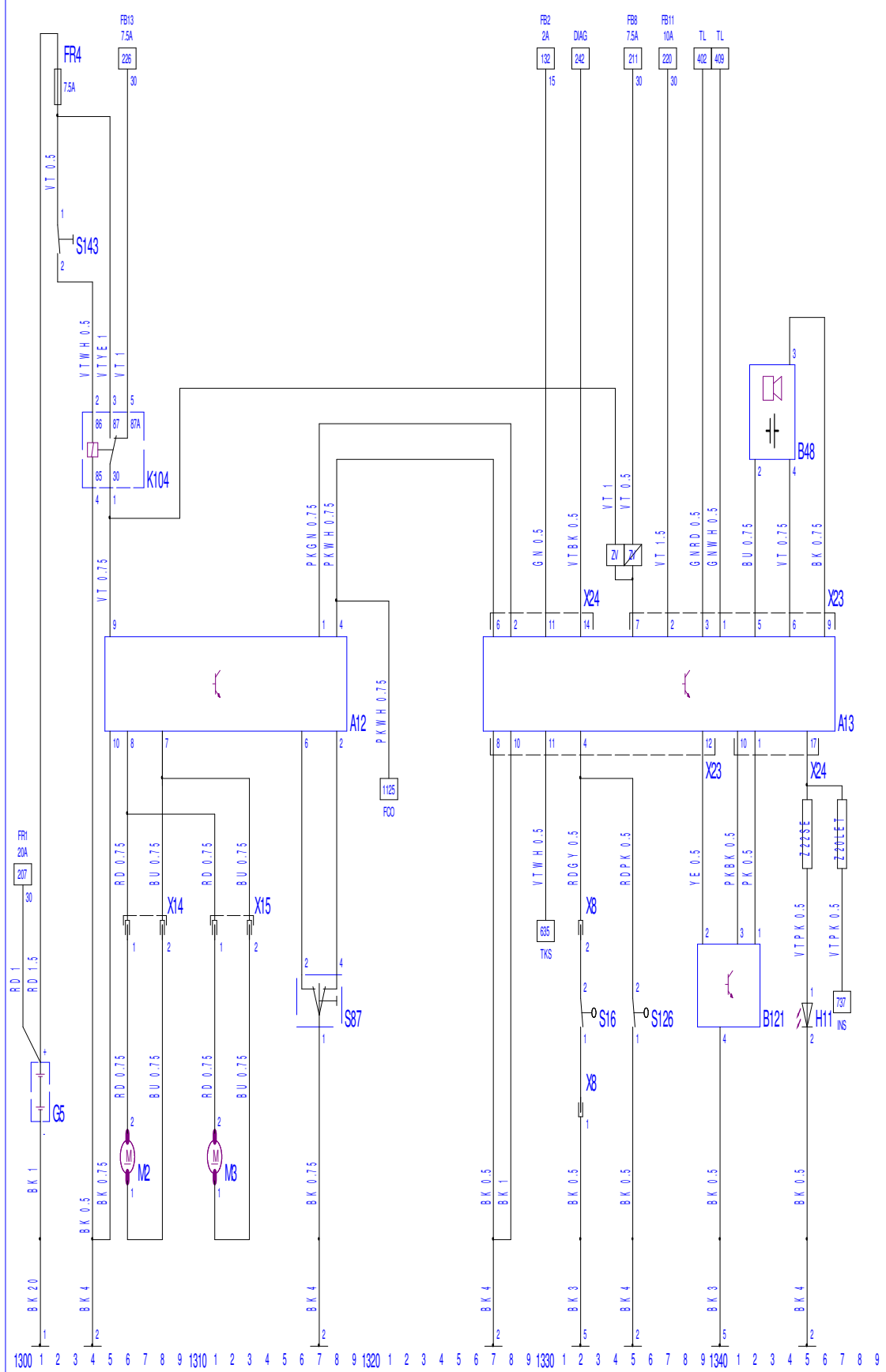
E2

P7410



RADIO

ABS

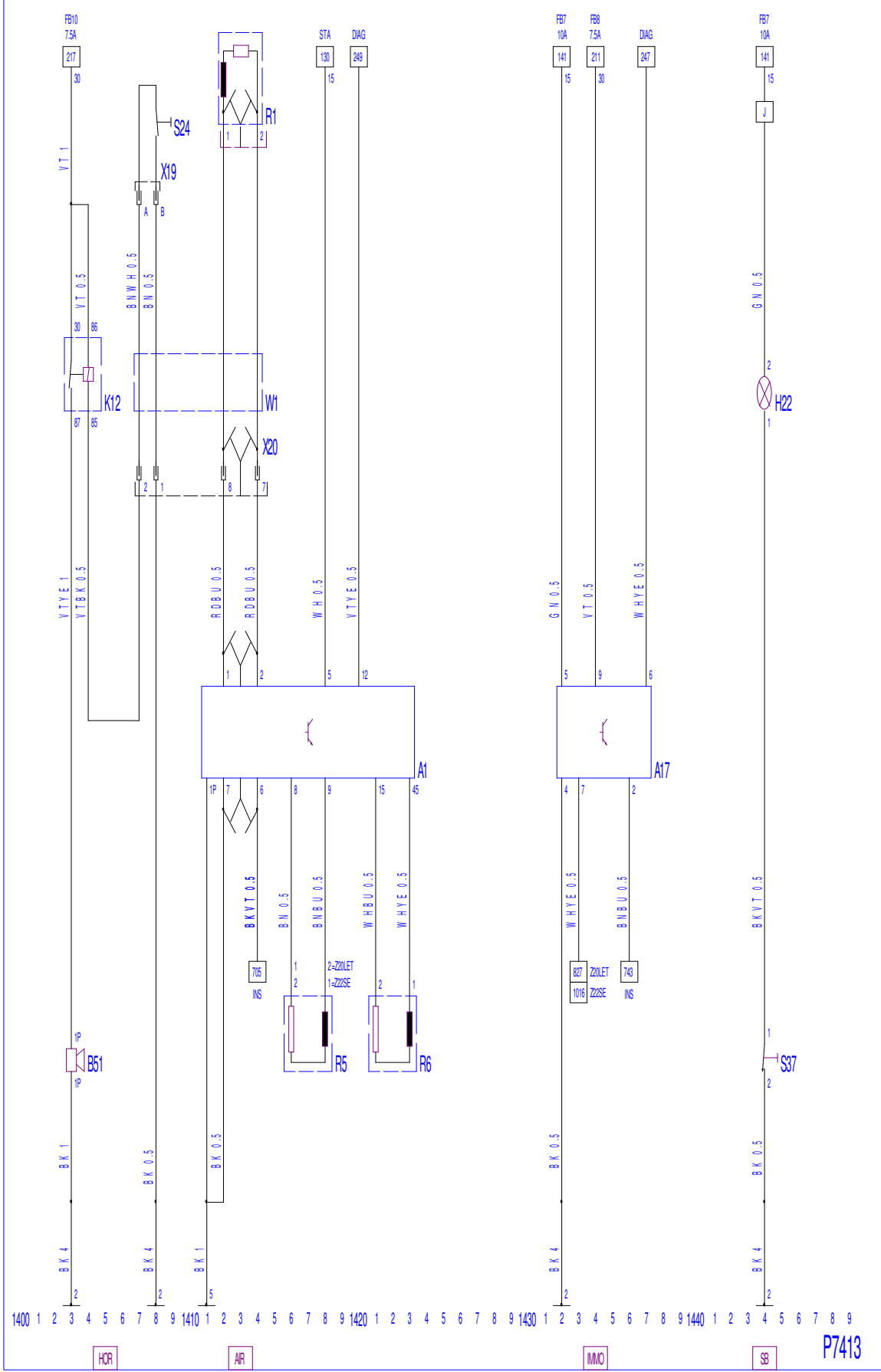


1300 1 2 3 4 5 6 7 8 9 1310 1 2 3 4 5 6 7 8 9 1320 1 2 3 4 5 6 7 8 9 1330 1 2 3 4 5 6 7 8 9 1340 1 2 3 4 5 6 7 8 9

KEY.CDL

ATMU

P7412



HCR

AR

MMO

SR

P7413

Components

A-codes		diagram
A1	Control unit - Airbag	14
A2	Control unit - Anti-lock Brake System	12
A4	Control unit – Multec (Z22SE)	10,11
A5	Control unit – Motronic (Z20LET)	8,9
A12	Control unit - Central locking	13
A13	Control unit - Anti-theft warning system	13
A14	Radio	12
A17	Control unit - Immobilizer	14

B-codes		diagram
B1	Switch - Brake fluid	7
B2	Switch - Parking brake	7
B3	Switch - Oil pressure Instrument	7
B6	Switch - Minimum capacity, coolant	7
B12	Sensor - Coolant temperature	10
B13	Sensor - Temperature, intake air	10
B19	Sensor - Pedal position	9,10
B21	Sensor - Absolute pressure, intake manifold	8,10
B25	Sensor - Wheel speed, front, left	12
B26	Sensor - Wheel speed, front, right	12
B27	Sensor - Wheel speed, rear, left	12
B28	Sensor - Wheel speed, rear, right	12
B30	Sensor - Knock control 1	9,10
B34	Impulse sensor - Crankshaft	8,10
B35	Sensor - Camshaft	8
B36	Loudspeaker - Front, left	12
B37	Loudspeaker - Front, right	12
B38	Loudspeaker - Rear, left	12
B39	Loudspeaker - Rear, right	12
B46	Air mass meter	8
B48	Power sounder - Anti-theft warning system	13
B51	Trumpet horn	14
B61	Sensor - Coolant temperature (gauge)	8
B110	Sensor - Atmospheric pressure	9
B117	Sensor - Oxygen, mixture control, heated	8,11
B118	Sensor - Oxygen, catalytic converter check	8,11
B121	Sensor - Anti-theft warning unit, passenger compartment	13

C-codes		diagram
C1	Condenser - Ignition coil	8,10

E-codes		diagram
E3	Rear lamp unit - Left	5
E3.1	Tail lamp - Left	5
E3.2	Stop lamp - Left	5
E3.3	Reversing lamp - Left	5

E3.4	Turn signal lamp - Rear, left	5
E3.5	Fog lamp - Rear, left	5
E4	Rear lamp unit - Right	5
E4.1	Tail lamp - Right	5
E4.2	Stop lamp - Right	5
E4.3	Reversing lamp - Right	5
E4.4	Turn signal - Rear, right	5
E4.5	Fog lamp - Rear, right	5
E10	Lamp - Licence plate, left	5
E11	Lamp - Licence plate, right	5
E18	Fog lamp - Front, left	5
E19	Fog lamp - Front, right	5
E22	Headlamp - Left	3
E22.1	Headlamp - Left - low beam	3
E22.2	Headlamp - Left - high beam	3
E22.3	Headlamp - Left - turn signal lamp	3
E22.4	Headlamp - Left - parking lamp	3
E23	Headlamp - Right	3
E23.1	Headlamp - Right - low beam	3
E23.2	Headlamp - Right - high beam	3
E23.3	Headlamp - Right - turn signal lamp	3
E23.4	Headlamp - Right - parking lamp	3
E24	Stop lamp - Centre position	4
E39	Lamp - Passenger compartment	6

F-codes		diagram
FB1	Fuse – Fog lamps	4
FB2	Fuse – Anti theft warning system	1
FB3	Fuse – Heater blower	1
FB4	Fuse – Windscreen wiper	1
FB5	Fuse – Reverse lamp/Stop lamps	1
FB6	Fuse – Hazard lamps	1
FB7	Fuse – Engine	1
FB8	Fuse – Instruments	2
FB9	Fuse – Hazard lamps	2
FB10	Fuse – Horn	2
FB11	Fuse – Interior Lamp	2
FB12	Fuse – Engine cooling	2
FB13	Fuse – Central door locking	2
FB14	Fuse – Front lamps	2
FB15	Fuse – Radio	2
FB16	Fuse – side lights left	3
FB17	Fuse – side lights right	3
FB19	Fuse – light switch	2
FB20	Fuse – Engine (Z20LET)	1
FB21	Fuse – Front fog lamps	2
FB22	Fuse – ABS	1
FL1	Main fuse Start & Charging Voltage distribution Ignition switch	1
FL3	Main fuse Voltage distribution ABS	2

FL4	Main fuse Voltage distribution Engine	2
FR1	Fuse – Cigarette lighter	2
FR2	Fuse – fuel pump	11
FR3	Fuse – Additional engine cooling (Z20LET)	2
FR4	Fuse – central locking	13

G-codes		diagram
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G1	G1 Battery Start & Charging/Voltage distribution	1
G2	G2 Alternator Start & Charging/Voltage distribution	1
G5	Battery - Back-up power, central door locking	13

H-codes		diagram
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H1	Instrument	7
H1.1	Charging indicator lamp	7
H1.2	Telltale - Oil pressure	7
H1.4	Telltale - Airbag	7
H1.5	Telltale - Anti-lock Brake System	7
H1.6	Telltale - Engine	7
H1.12	Telltale - High beam	7
H1.17	Telltale - Brake system	7
H1.19	Telltale - Turn signal lamp	7
H1.20	Illumination - LCD display	7
H1.21	Illumination - Instrument	7
H1.22	Indicator - Coolant temperature	7
H1.23	Fuel indicator	7
H1.24	Tachometer	7
H1.25	Speedometer - Electronic	7
H1.65	Warning buzzer	7
H1.68	Telltale - Parking brake	7
H1.69	Telltale - Coolant level	7
H1.76	Telltale - Gear shift up/Anti-theft warning system	7
H6	Turn signal lamp - Side, left	4
H7	Turn signal lamp - Side, right	4
H11	Indicator - Anti-theft warning system	13
H22	Telltale - Seat belt warning	14

K-codes		diagram
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K2	Relay - High beam	3
K4	Relay - Fog lamp, front	5
K5	Relay - Fog lamp, rear	4
K10	Relay - Wiper, windscreen (Stage 1/Interval)	6
K12	Relay - Trumpet horn	14
K13	Relay - Radiator fan	11
K16	Relay - Fuel pump	9,10
K18	Relay - Engine control unit	9,10
K19	Relay - Low beam	3
K20	Relay - Parking lamp	3
K24	Relay - Starter Start & Charging/Voltage distribution	1
K31	Flasher unit	4

K82	Relay - Pump, coolant additional	9
K103	Relay - Impact, unlock doors	11
K104	Relay - Back-up power, central door locking	13

M-codes		diagram
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M1	Starter Start & Charging/Voltage distribution	1
M2	Motor - Central locking, driver door	13
M3	Motor - Central locking, front passenger door	13
M12	Motor - Blower, passenger compartment	6
M16	Motor - Wiper, windscreen	6
M19	Motor - Radiator fan	11
M21	Pump - Fuel	11
M26	Pump - Washer, windscreen	6
M55	Pump - Coolant, additional	9

P-codes		diagram
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P5	Sensor - Fuel tank content	7
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R-codes		diagram
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R1	Squib - Airbag, driver	14
R5	Squib - Belt pretensioner, driver	14
R6	Squib - Belt pretensioner, front passenger	14
R10	Cigarette lighter	6
R11	Preresistor - Blower, heating	6

S-codes		diagram
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S1	Switch - Starter Start & Charging Voltage distribution	1
S2	Switch unit - Light	3
S3	Switch unit - Steering column	3
S3.1	Switch - High beam	3
S3.2	Switch - Turn signal	3
S3.3	Switch - Headlamp flash	3
S4	Switch - Parking lamp	3
S6	Switch - Hazard light	4
S16	Switch - Engine hood, anti-theft warning system	13
S22	Switch - Wiper unit	6
S22.1	Switch - Wiper, windscreen	6
S22.2	Switch - Washer, windscreen	6
S24	Switch - Trumpet horn	14
S28	Switch - Clutch Pedal	4
S29	Switch - Stop lamp, single	4
S31	Switch - Reversing lamp	4
S37	Switch - Seat belt	14
S38	Contact switch - Driver door	6
S39	Contact switch - Front passenger door	6
S43	Switch - Stop lamp, double	4
S69	Switch - Blower, heating	6
S76	Switch - Fog lamps, front	5
S87	Switch - Central locking (instrument)	13

S94	Impact switch - Fuel cut off	11
S122	Switch - Fog lamps, rear	4
S124	Switch - Starter button Start & Charging Voltage distribution	1
S125	Switch - Illumination/Reset trip odometer	7
S126	Switch - Front bonnet, anti-theft warning system	13
S143	Switch - Back-up power, central door locking	13

T-codes		diagram
T1	Ignition coil - Direct ignition	8,10

V-codes		diagram
V25	Diode - Back-up power	2

W-codes		diagram
W1	Contact unit	14
W6	Antenna - Radio	12

X-codes		diagram
X1	Main harness & Battery positive Start & Charging/Voltage distribution	1,2
X2	Main harness & Extension harness, engine	8,9,10
X3	Main harness & Extension harness, engine	1,7,8,9,10
X4	Main harness & Extension harness, engine Start & Charging/Voltage distribution	1
X5	Main harness & Rear Licence plate lamps/Tail lamps	5
X6	Main harness & Rear (Fog lamp)	5
X7	Main harness & Rear (Reversing lamp)	5
X8	Main harness & Extension harness, boot switch	13
X10	Main harness & Interior fan	6
X12	Main harness & Roll hoop Radio/Stop lamp switch	4,12
X13	Diagnostic link Diagnostic link	2
X14	Main harness & Driver door	13
X15	Main harness & Front passenger door	13
X17	Main harness & Switch unit - Steering column High beam/Low beam	3
X18	Main harness & Switch unit - Steering column High beam/Low beam	3
X19	Contact unit & Switch - Trumpet horn	14
X20	Main harness & Contact unit	14
X21	Extension harness, engine & Control unit – Multec (Z22SE)	10
X22	Engine & Control unit – Multec (Z22SE)	10,11
X23	Main harness & Control unit - Anti-theft warning system	13
X24	Main harness & Control unit - Anti-theft warning system	13
X25	Main harness & Extension harness, contact switch - Driver door	6
X26	Main harness & Extension harness, contact switch - Passenger door	6
X30	Fuel tank & Fuel pump/sensor Fuel pump/sensor Instrument	7,11
X31	Extension harness, engine & Control unit – Motronic (Z20LET)	8,9
X32	Engine & Control unit - Motronic (Z20LET)	8,9
X33	Extension harness, engine & Engine	8,9,10
X34	Extension harness, engine Instrument/Start & Charging/Voltage distribution	1,7,9
X35	Main harness & Engine Engine Z20LET	8
X36	Main harness & Engine Engine Z20LET	8

X37	Main harness & Engine Engine Z20LET	9
X38	Extension harness, engine & Engine	10
X40	Main harness & Roll hoop	12
X41	Main harness & Extension harness, fog lamp, front left	5
X42	Main harness & Extension harness, fog lamp, front right	5

Y-codes		diagram
Y2	Actuator - Recirculation	9
Y4	Solenoid valve - Exhaust gas recirculation	10
Y5	Solenoid valve - Tank ventilation Engine	9,11
Y8	Solenoid valve - Boost pressure regulation	8
Y9.1	Injection valve - Cylinder 1	9,10
Y9.2	Injection valve - Cylinder 2	9,10
Y9.3	Injection valve - Cylinder 3	9,10
Y9.4	Injection valve - Cylinder 4	9,10
Y11	Throttle valve – Positioner (Z20LET)	9
Y29	Throttle valve – Positioner (Z22SE)	11

Systems

ABS	Anti-lock Brake System	HOR	Trumpet horn
AIR	Airbag	IMMO	Immobiliser
ATWU	Anti-theft warning system	INS	Instrument
BRAKE	Stop lamp switch	IRL	Interior lights
CIG	Cigarette lighter	KEY_CD	Key-less entry, central door locking
CLUTCH	Clutch switch	LISW	Light switch
DCS	Door contact switch	LPL	Licence plate lamps
EC	Engine cooling	RADIO	Radio
ENGZ20LET	Engine Z20LET	SB	Seat belt switch
ENGZ22SE	Engine Z22SE	SBUL	Switch - Reversing lamp
FCO	Fuel cut-off	STA+CHA	Start & Charging
FI-PU	Fuel pump	TL-L	Tail lamp, left
FOG-F	Fog lamps, front	TL-R	Tail lamp, right
FOG-R	Fog lamps, rear	TURN	Turn signal lamps
HEAT	Heating	VOLT	Voltage distribution
HI-B	High beam	WA-F	Windscreen washer
		WI-F	Windscreen wiper

Wiring Colours

BK	Black	OG	Orange
BN	Brown	PK	Pink
BU	Blue	RD	Red
GN	Green	VT	Violet
GY	Gray	WH	White
LGN	Light Green	YE	Yellow

Grounding Points

1	Chassis front	4	Engine
2	Battery	5	Chassis rear
3	Engine		

Abbreviations

15	Ignition voltage	FR3	Fuse FR3
30	Constant voltage	FW	Windscreen wiper
AB	Airbag	HZG	Heating
ABS	Anti-lock Brake System	IMO	Immobiliser
CLS	Clutch switch	INS	Instrument
DIAG	Diagnostic link	IRL	Interior lamp
DWA	Anti-theft warning system	J	Japan
EMP	Radio	KSP	Fuel pump
FB2	Fuse FB2	LHD	Left-hand drive
FB3	Fuse FB3	LSW	Light switch
FB4	Fuse FB4	MK	Engine cooling
FB7	Fuse FB7	NSL	Fog lamps, rear
FB8	Fuse FB8	NSW	Fog lamps, front
FB10	Fuse FB10	PKL	Parking lamps
FB11	Fuse FB11	RFS	Reversing lamps
FB12	Fuse FB12	RHD	Right-hand drive
FB13	Fuse FB13	RL	Rear Lamps
FB14	Fuse FB14	SB	Seat belt switch
FB15	Fuse FB15	SBL	Switch - Reversing lamp
FB16	Fuse FB16	SL	Stop lamps
FB17	Fuse FB17	SLS	Stop lamp switch
FB19	Fuse FB19	STA	Start & Charging
FB20	Fuse FB20	TKS	Door contact switch
FB21	Fuse FB21	TL	Turn signal lamps
FB22	Fuse FB22	TLS	Turn signal lamps - Switch
FCO	Fuel cut-off	WEG	Vehicle speed signal
FF	Trumpet horn	WL	Hazard warning lamps
FL	Front Lamps	Z20LET	Engine Z20LET
FL3	Main fuse FL3	Z22SE	Engine Z22SE
FL4	Main fuse FL4	ZIG	Cigarette lighter
FR1	Fuse FR1	ZV	Central door locking