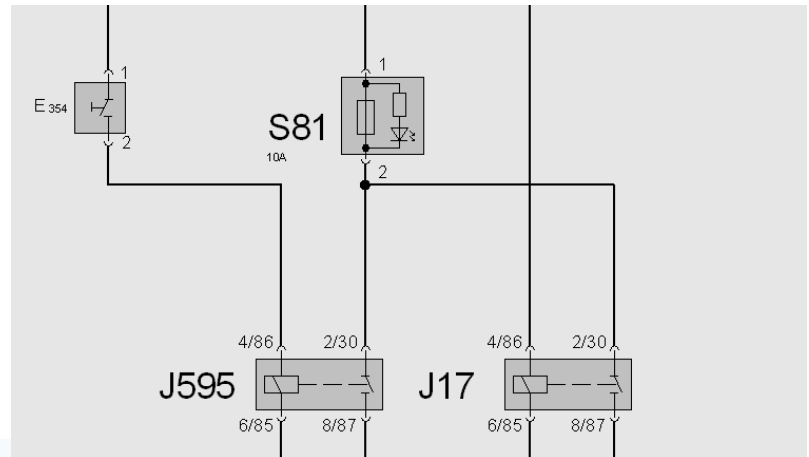


Current Flow Diagram



Boat Engines from Volkswagen Marine

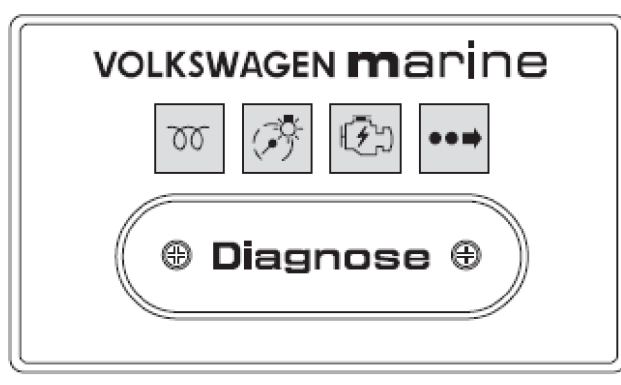
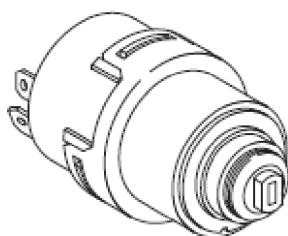
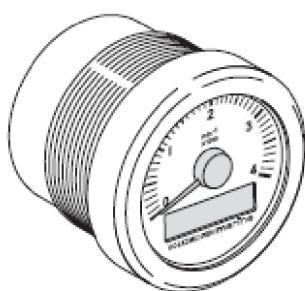


4 Cylinder SDI from model year 2005
Individual instruments from 2005
Main panel from 2007

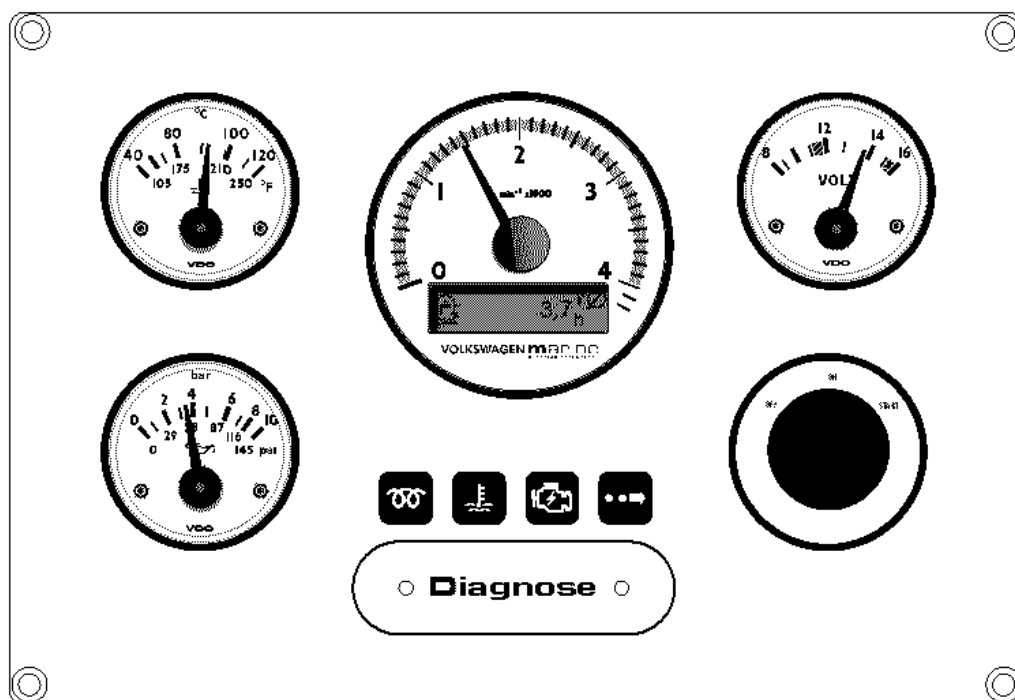
VOLKSWAGEN *marine*
SUPERIOR TECHNOLOGY

Information of versions

for all 4-cyl. engines with central electric box no. 065 937 025 B (from model year 2005)
and individual instruments 065 800 547 B or 06V 800 547 or main panel 065 805 051 B

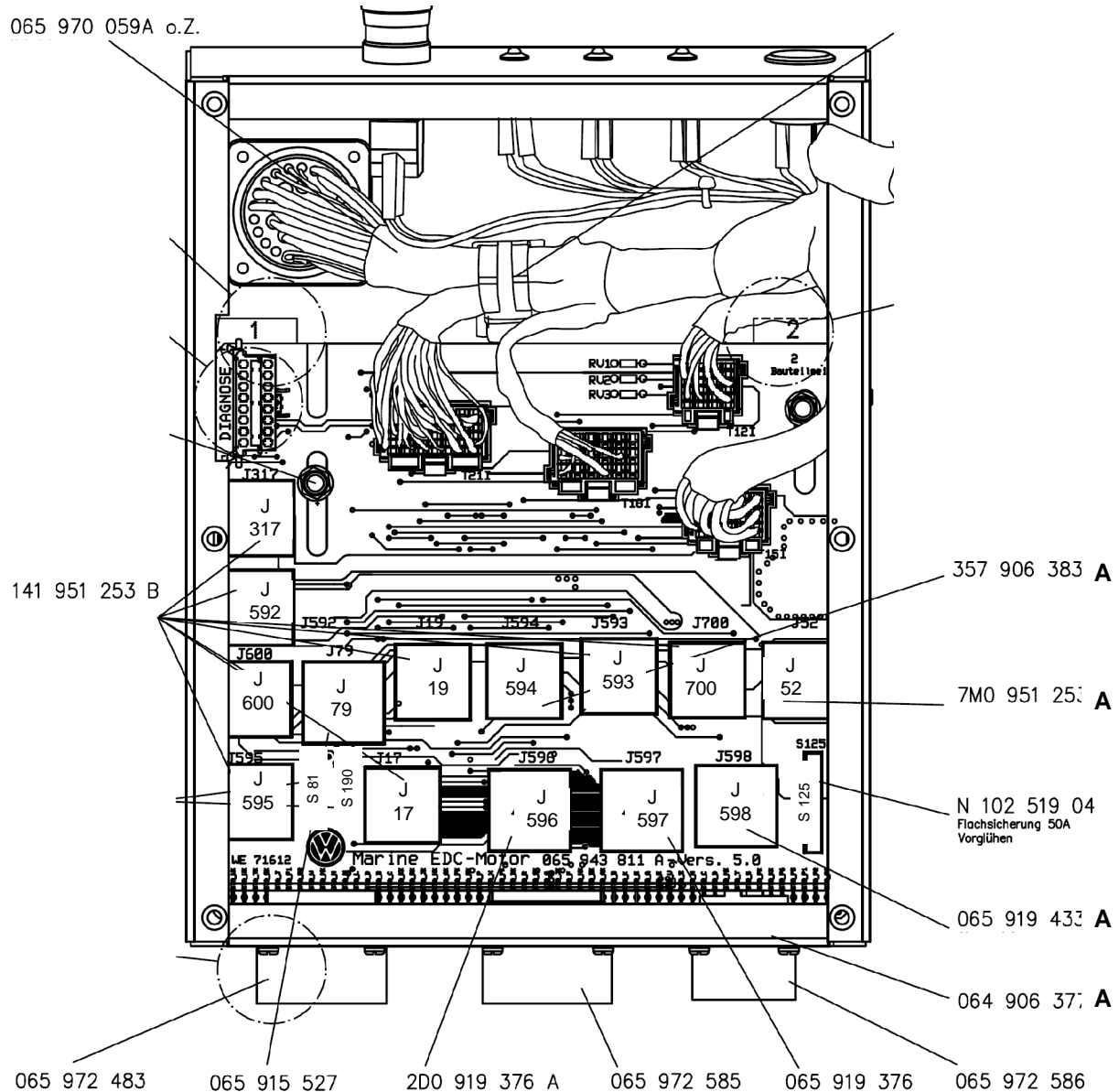


065 800 547 B
oder 06V 800 547

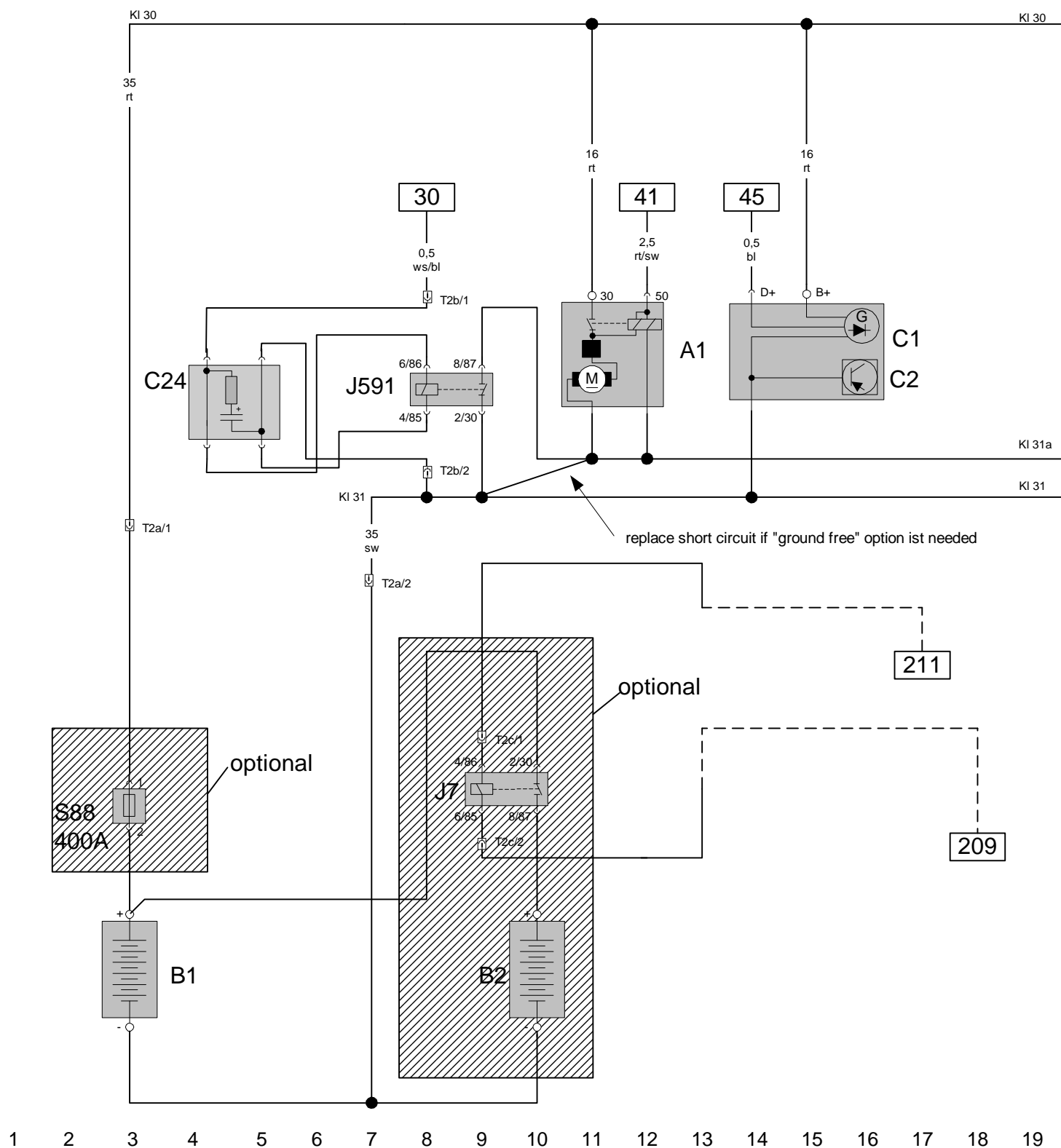


065 805 051 B

Relays and Fuses



J 317	main relay for MDC	J 79	diode group
J 593	relay "ground free" shutoff device	J 52	relay for glowing plugs
J 592	relay terminal 15	J 17	relay for fuel pump
J 597	relay "water in fuel"	S 81	fuse for oil extr. and fuel pump
J 600	starting aid relay	J 19	starting relay
J 700	relay "ground free" for glowing plugs	J 594	engine stop relay
S 125	fuse glowing plugs 50A	S 190	fuse terminal 30a 15A
J 595	relay oil extraction pump	J 598	acoustic alert relay
J 596	relay "coolant level"		

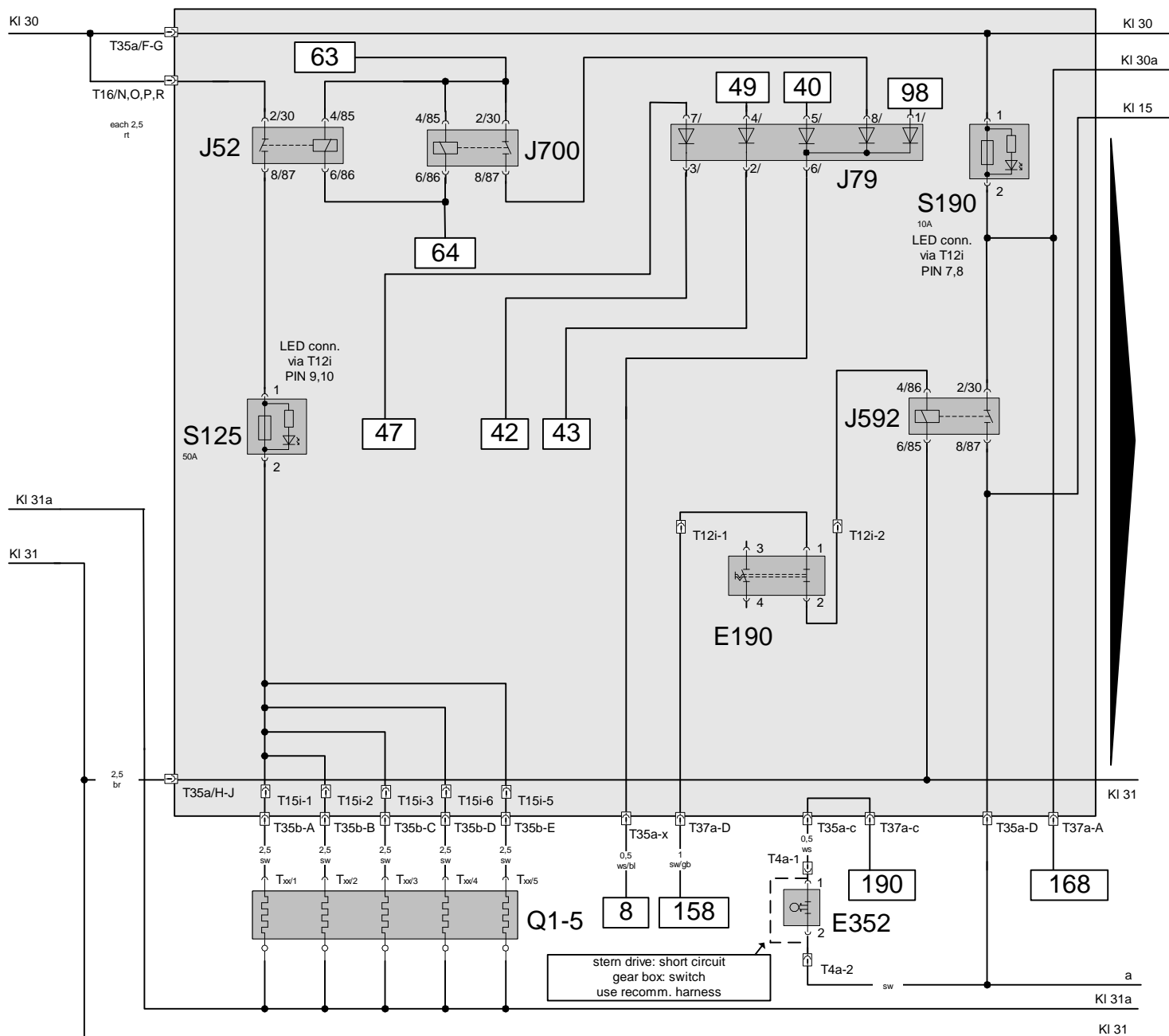


B1 Starter-Battery
 B2 optional 2nd battery
 S88 optional fuse
 J7 optional battery separation relay
 J591 relay for option "ground free"
 A1 starter
 C1 alternator
 C2 voltage regulator in alternator
 C24 Cap pack for relay "ground free"

T2a 2pin high current connector
 T2b 2pin connector on at J591
 T2c 2pin connector at relay J7

Colors:

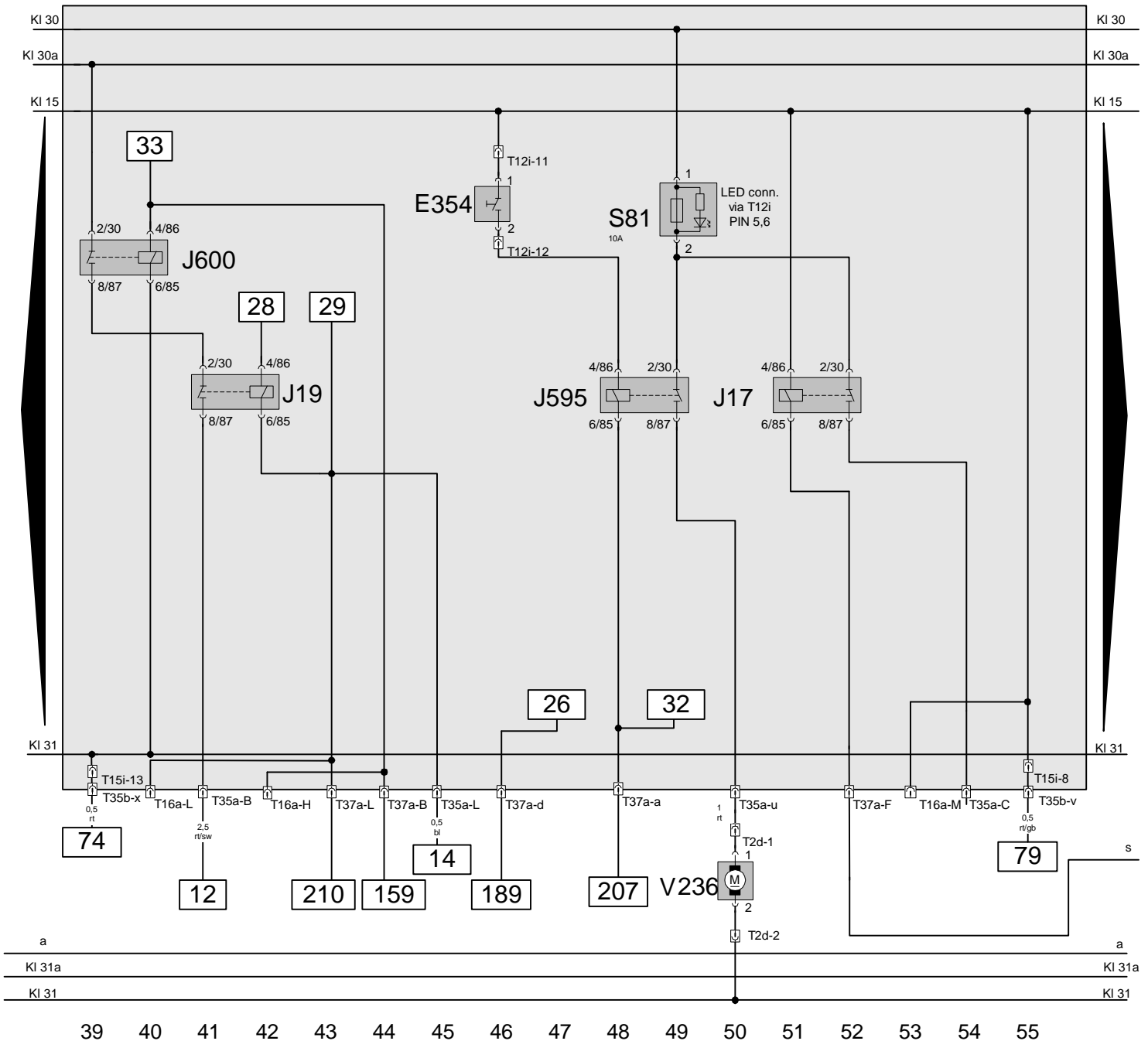
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 ws = white gb = yellow gr = gray
 gn = green li = violet



20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
J52	relay for glowing plugs									a		terminal 15 in engine harness						
J700	relay "ground free" shutoff device																	
S125	fuse for glowing plugs																	
J79	diode group																	
S190	fuse terminal 30a																	
J592	fuse terminal 15																	
E190	stop switch at central electric box																	
E352	neutral switch (gear box)																	
Q1 bis Q5	glowing plugs																	
T35a	35pin connector at bottom of central electric box																	
T35b	35pin connector at back side of central electric box																	
T16a	16pin connector at bottom of central electric box																	
T37a	37pin connector at bottom of central electric box																	
T4a	4pin connector "gear box version" on the back of the engine																	
Txx	connector glowing plug																	
T15i	15pin internal connector in central electric																	
T12i	12pin internal connector in central electric																	

Colors:

rt = red sw = black bl = blue
ws = white gb = yellow gr = gray
gn = green li = violet

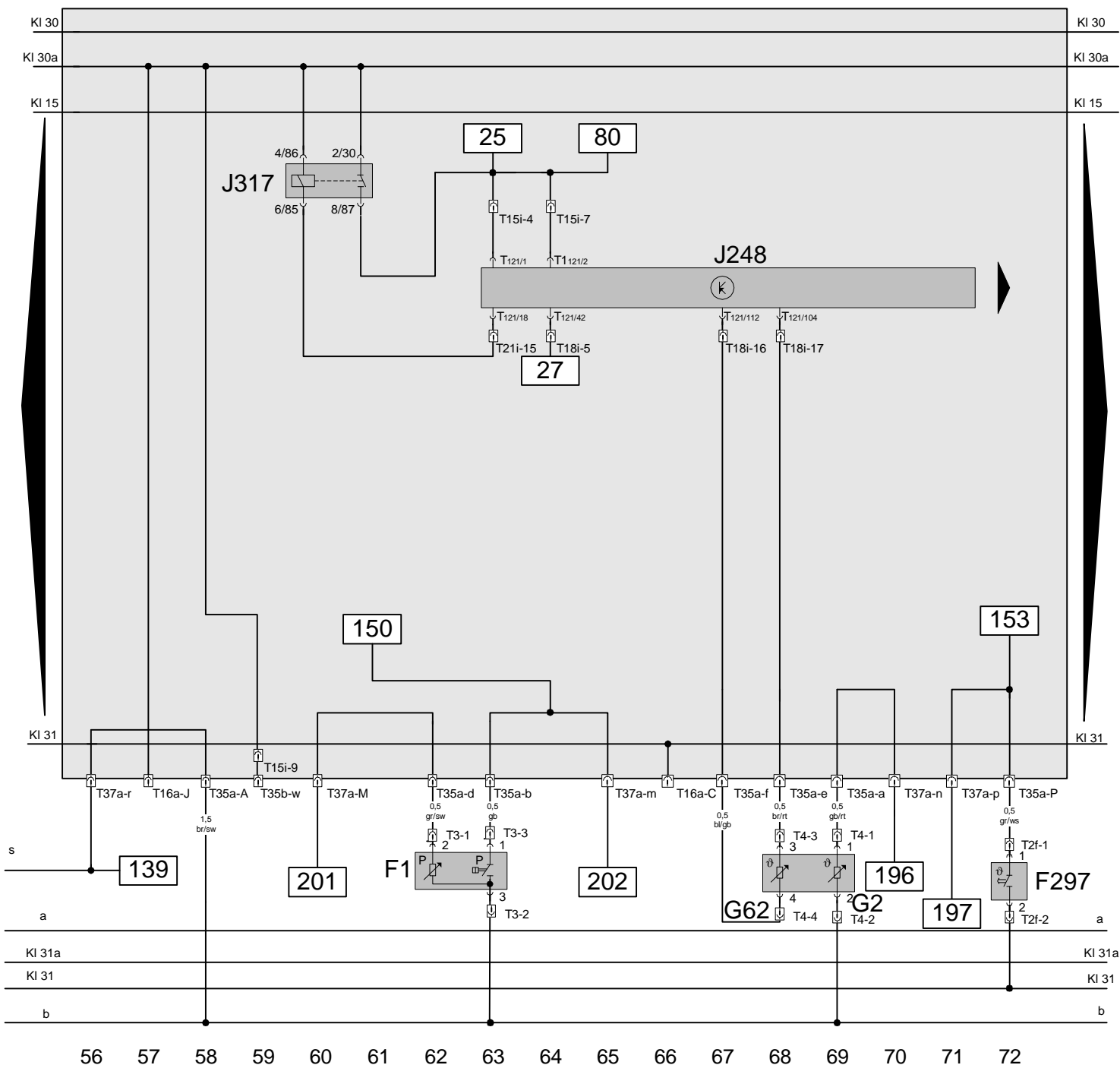


- T35a 35pin connector at bottom of central electric box
- T35b 35pin connector at back side of central electric box
- T16a 16pin connector at bottom of central electric box
- T37a 37pin connector at bottom of central electric box
- T2d 2pin connector at oil extraction pump
- J600 starting aid relay
- J19 starting relay
- E354 switch for oil extraction pump
- S81 fuse for oil extr./fuel pump
- J595 relay oil extraction pump
- J17 relay fuel pump
- V236 oil extraction pump
- T15i 15pin internal connector in central electric
- T12i 12pin internal connector in central electric
- T121 121pin two part connector pin 1-81 and pin 82-121

- a terminal 15 in engine harness
- s connection in harness

Colors:

- rt = red sw = black bl = blue
- ws = white gb = yellow gr = gray
- gn = green li = violet

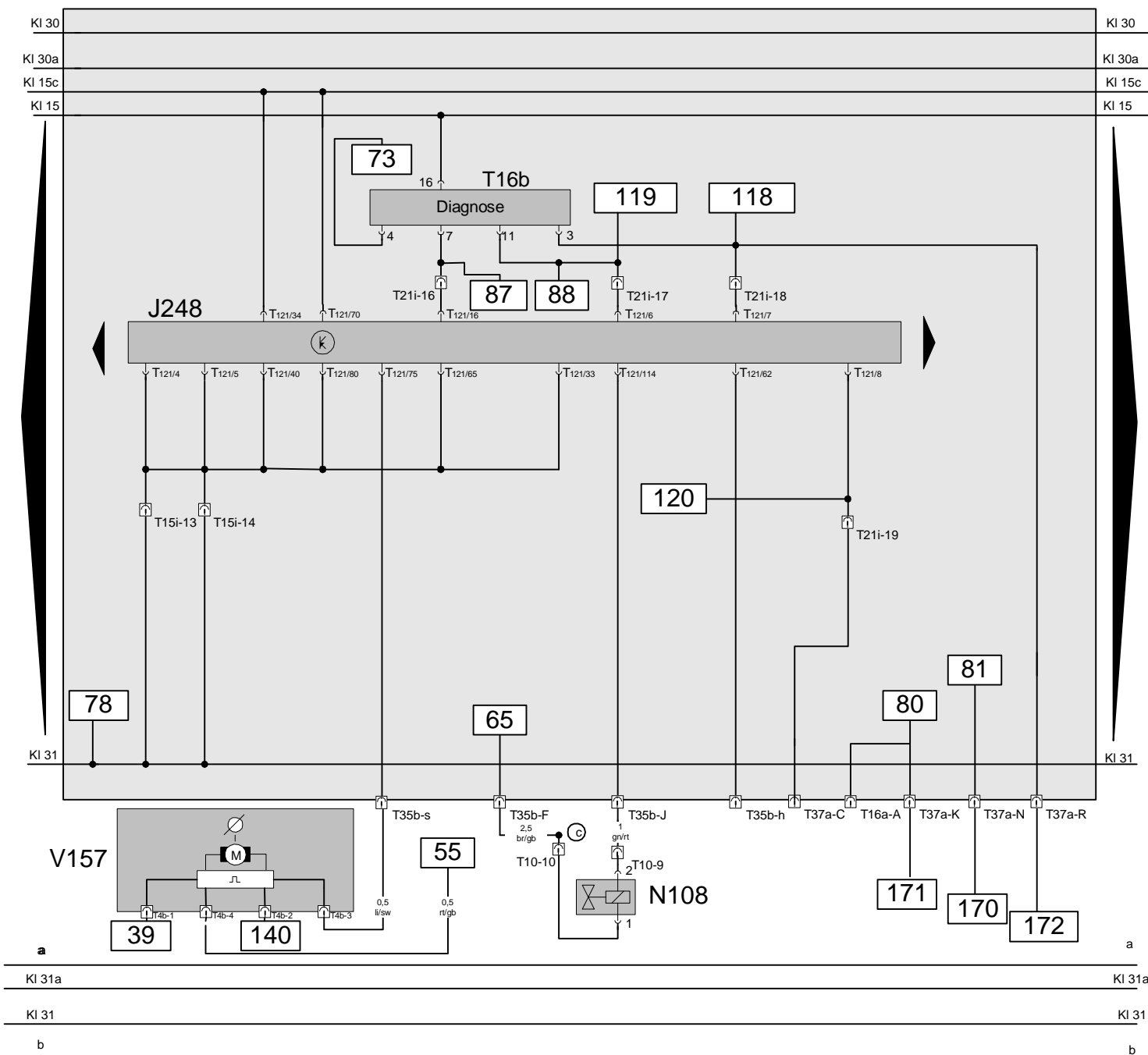


- T16a 16pin connector at bottom of central electric box
- T35a 35pin connector at bottom of central electric box
- T35b 35pin connector at the back side of central electric box
- T37a 37pin connector at bottom of central electric box
- T2f 2pin connector at temperature switch
- F1 oil pressure sensor / switch
- G62 coolant temp. sensor for MDC
- G2 coolant temp. sensor for instruments
- F297 coolant temp. switch (Instruments)
- J317 main relay MDC
- J248 MDC (ECU)
- T15i 15pin internal connector in central electric
- T12i 12pin internal connector in central electric
- T21i 21pin internal connector in central electric
- T18i 18pin internal connector in central electric
- T121 121pin two part connector pin 1-81 and pin 82-121
- T4 4pin connector at temp. sensor
- T3 3pin connector at oil pressure sensor

- a terminal 15 in engine harness
- b sensor ground in engine harness
- s connection in harness

Colors:

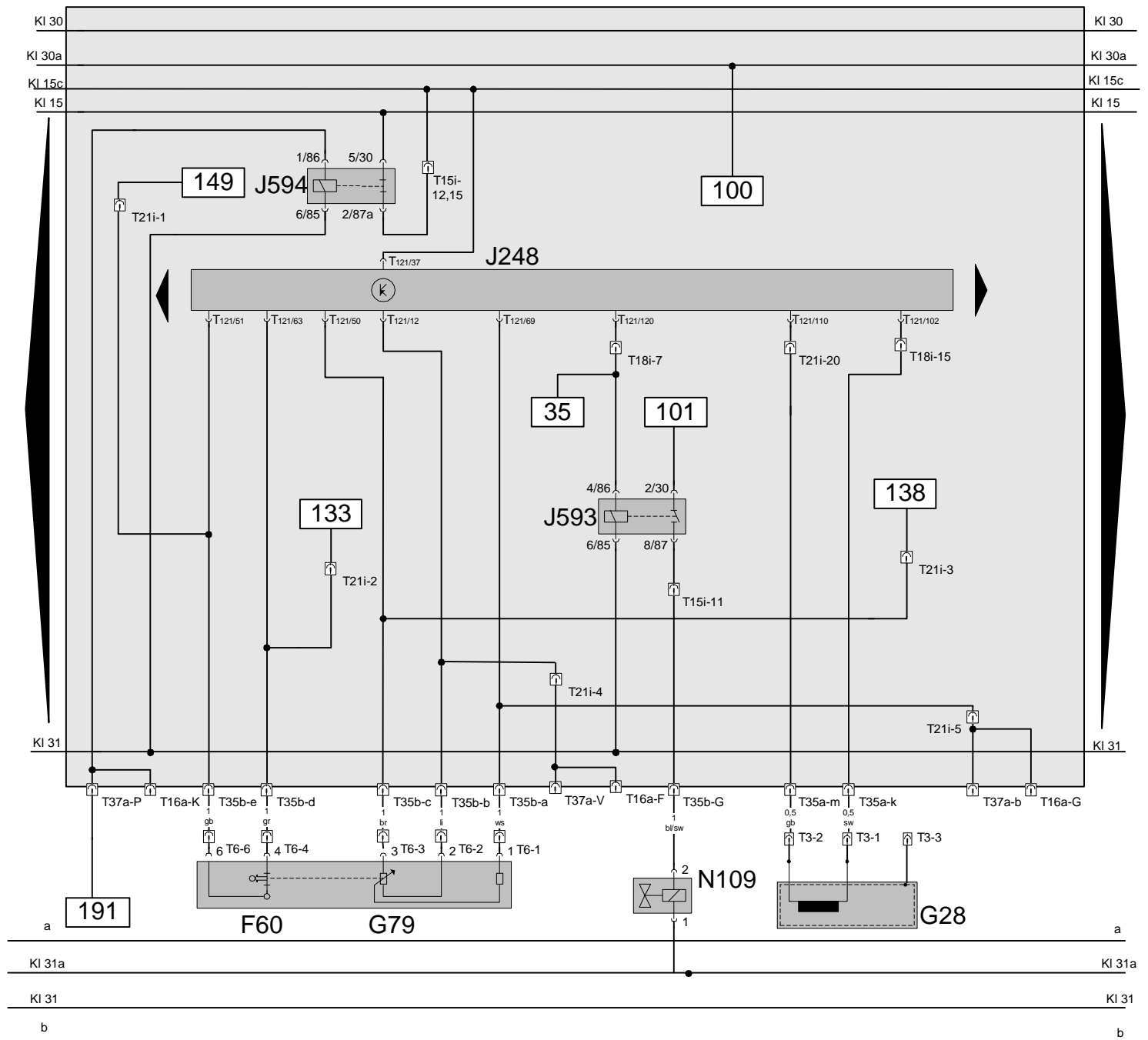
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- gn = green li = violet



	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	
T16a	16pin connector at bottom of central electric box										a	terminal 15 in engine harness						
T35a	35pin connector at bottom of central electric box										b	sensor ground in engine harness						
T35b	35pin connector at the back side of central electric box										c	connection in harness						
T37a	37pin connector at bottom of central electric box																	
T16b	16pin connector "diagnosis" in central electric box																	
T10	10pin connector at distribution pump																	
J248	MDC (ECU)																	
N108	timming adjuster																	
T15i	15pin internal connector in central electric																	
T12i	12pin internal connector in central electric																	
T21i	21pin internal connector in central electric																	
T18i	18pin internal connector in central electric																	
T121	121pin two part connector pin 1-81 and pin 82-121																	
V157	intake-pipe flap																	
T4b	4pin connector at intake-pipe flap																	

Colors:

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ws = white gb = yellow gr = gray
gn = green li = violet



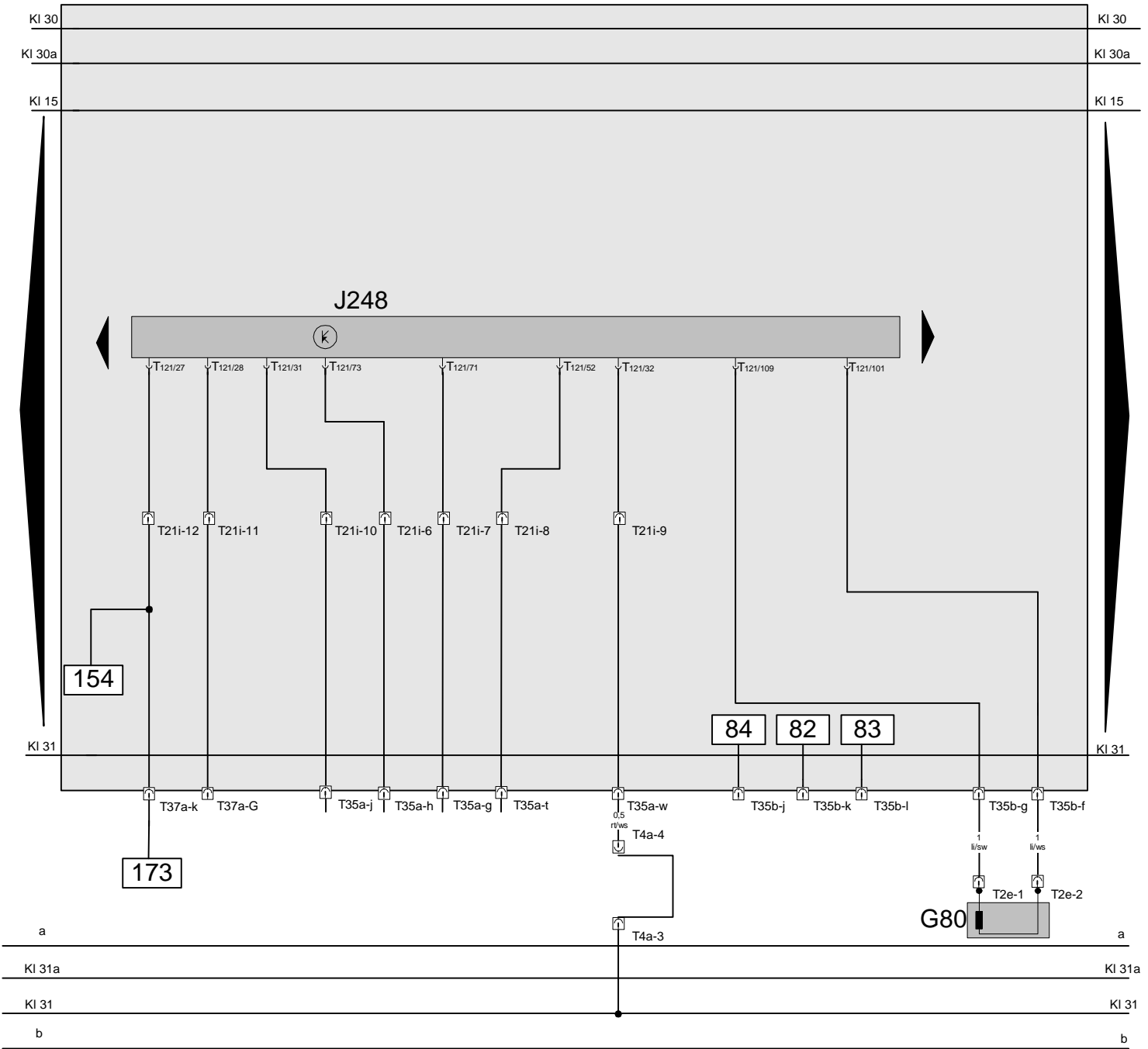
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106

T16a 16pin connector at bottom of central electric box
T35a 35pin connector at bottom of central electric box
T35b 35pin connector at the back side of central electric box
T37a 37pin connector at bottom of central electric box
J593 relay "ground free" shutoff device
J594 stop relay
F60 idle switch in pedal-force sensor
G79 sensor in pedal-force sensor
N109 shutoff device
G28 rpm sensor
T15i 15pin internal connector in central electric
T12i 12pin internal connector in central electric
T21i 21pin internal connector in central electric
T18i 18pin internal connector in central electric
T12i 121pin two part connector pin 1-81 and pin 82-121
T6 6pin connector at pedal-force sensor
T3 3pin connector at rpm sensor

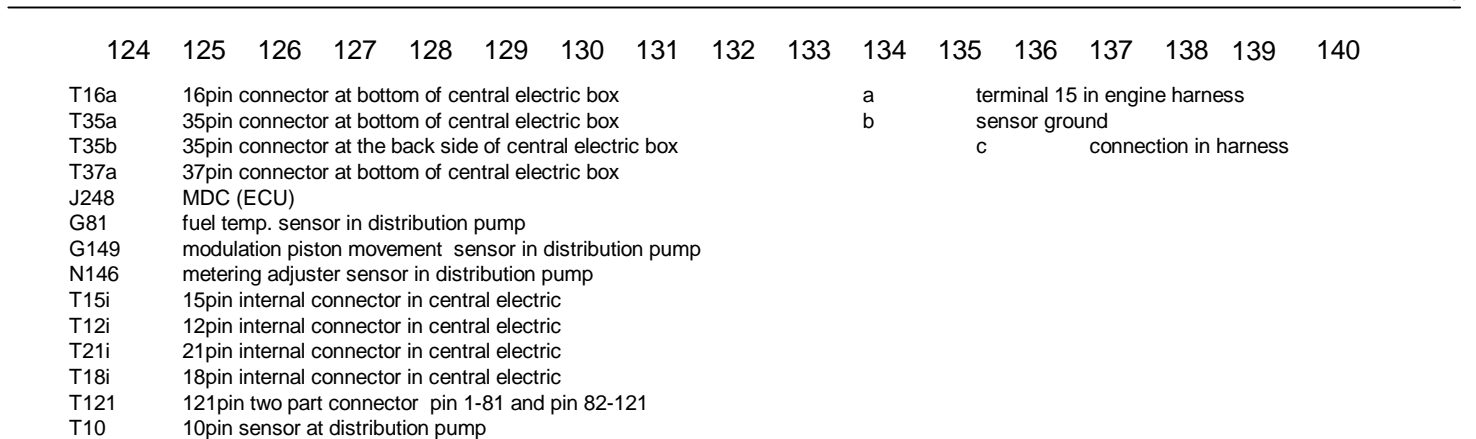
a terminal 15 in engine harness
b sensor ground in engine harness

Colors:

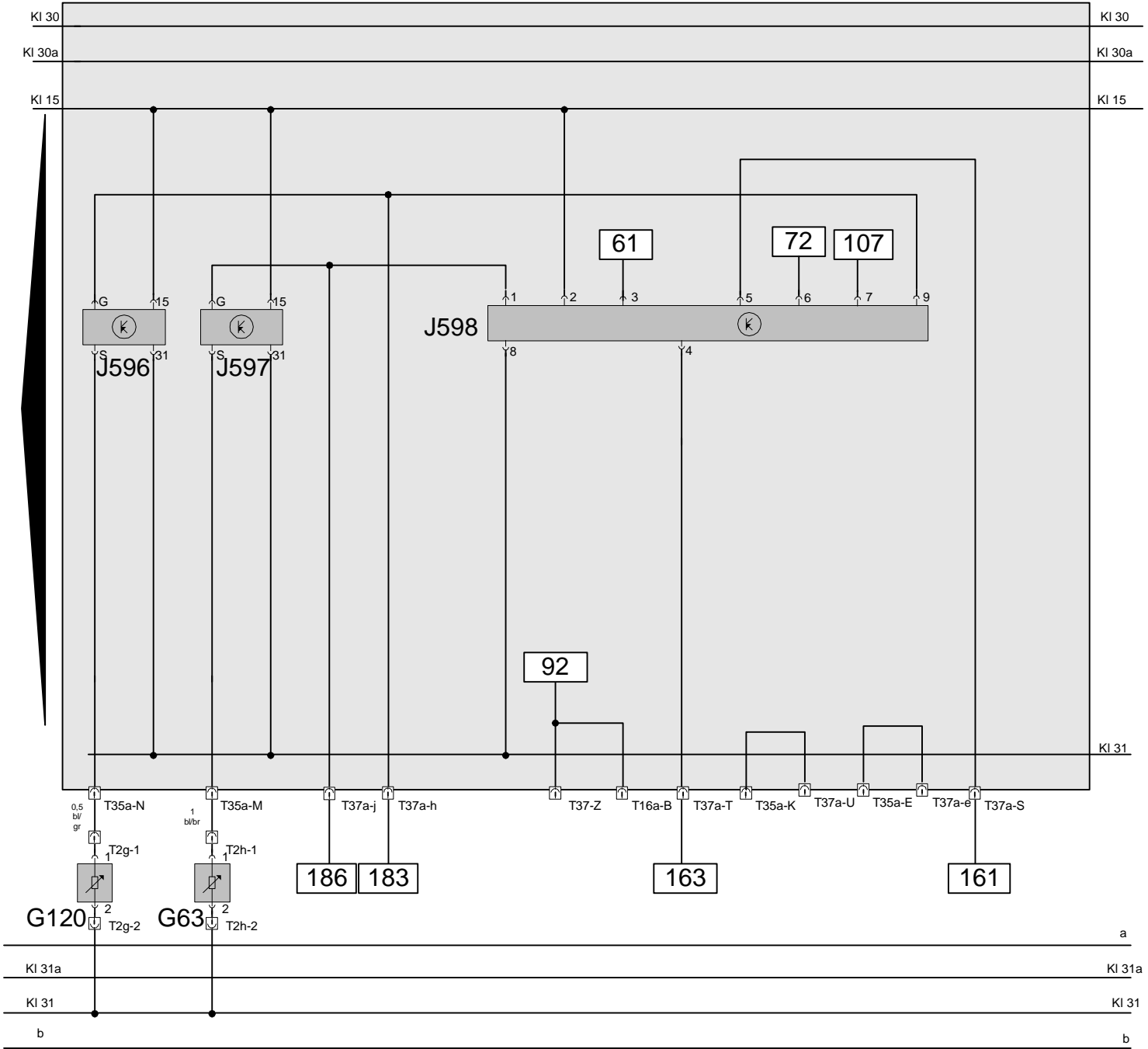
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gn = green li = violet



107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123						
T16a	16pin connector at bottom of central electric box									a	terminal 15 in engine harness											
T35a	35pin connector at bottom of central electric box									b	sensor ground in engine harness											
T35b	35pin connector at the back side of central electric box																					
T37a	37pin connector at bottom of central electric box																					
J248	MDC (ECU)																					
G71 G72	sensor air temp. and pressure																					
G80	needle-stroke sensor																					
T15i	15pin internal connector in central electric																					
T12i	12pin internal connector in central electric																					
T21i	21pin internal connector in central electric																					
T18i	18pin internal connector in central electric																					
T121	121pin two part connector pin 1-81 and pin 82-121																					
T4a	4pin connector of "gear box " at the back of the engine																					
T4b	4pin connector at air temp. and pressure sensor									Colors:												
T2e	2pin connector at needle-stroke sensor																					
												rt = red		sw = black		bl = blue						
												ws = white		gb = yellow		gr = gray						
												gn = green		li = violet								



rt = red sw = black bl = blue
ws = white gb = yellow gr = gray
qn = green li = violet

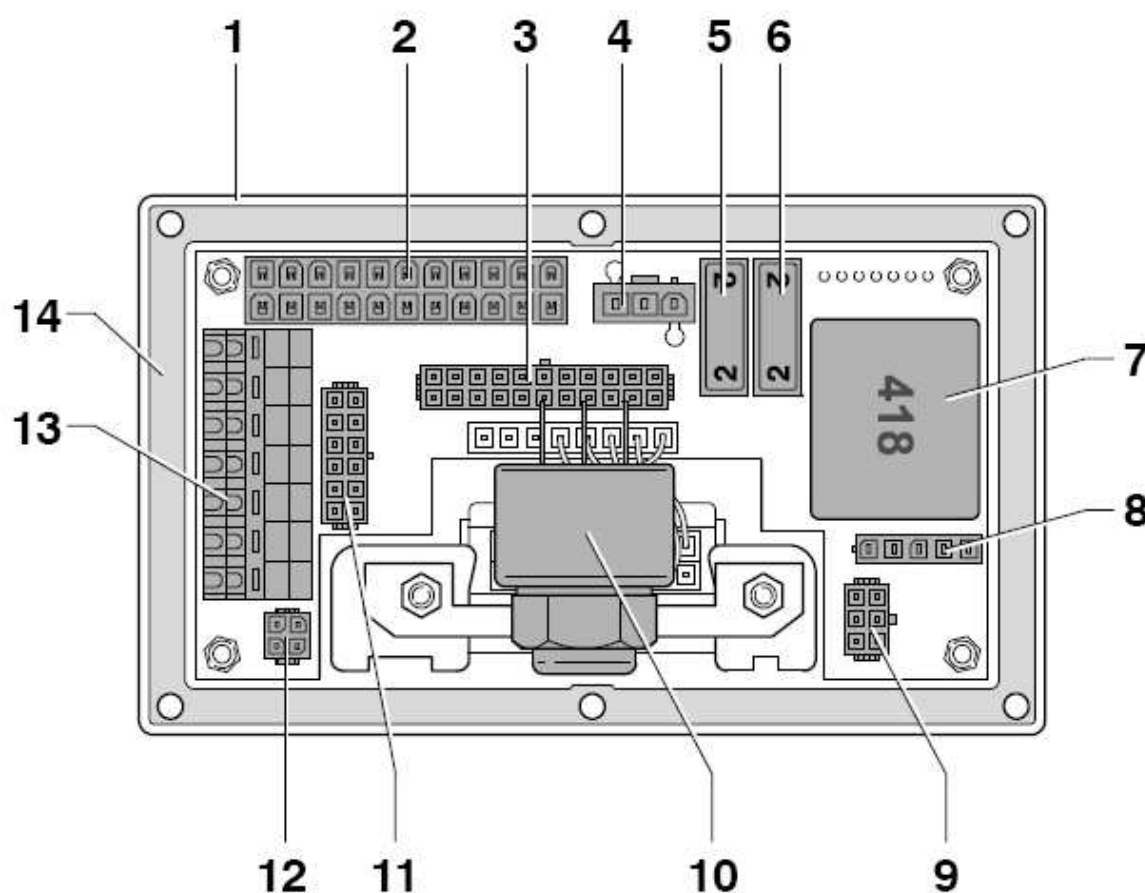


141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157
T16a	16pin connector at bottom of central electric box									a	Terminal 15 in engine harness					
T35a	35pin connector at bottom of central electric box									b	sensor ground in engine harness					
T35b	35pin connector at the back side of central electric box															
T37a	37pin connector at bottom of central electric box															
T2g	2pin connector of coolant level sensor															
T2h	2pin connector of "water in fuel" sensor															
G120	coolant level sensor															
G63	"water in fuel" sensor															
J596	relay "coolant level"															
J597	relay "water in fuel"															
J598	acoustic alert relay															
T121	121pin two part connector pin 1-81 and pin 82-121															

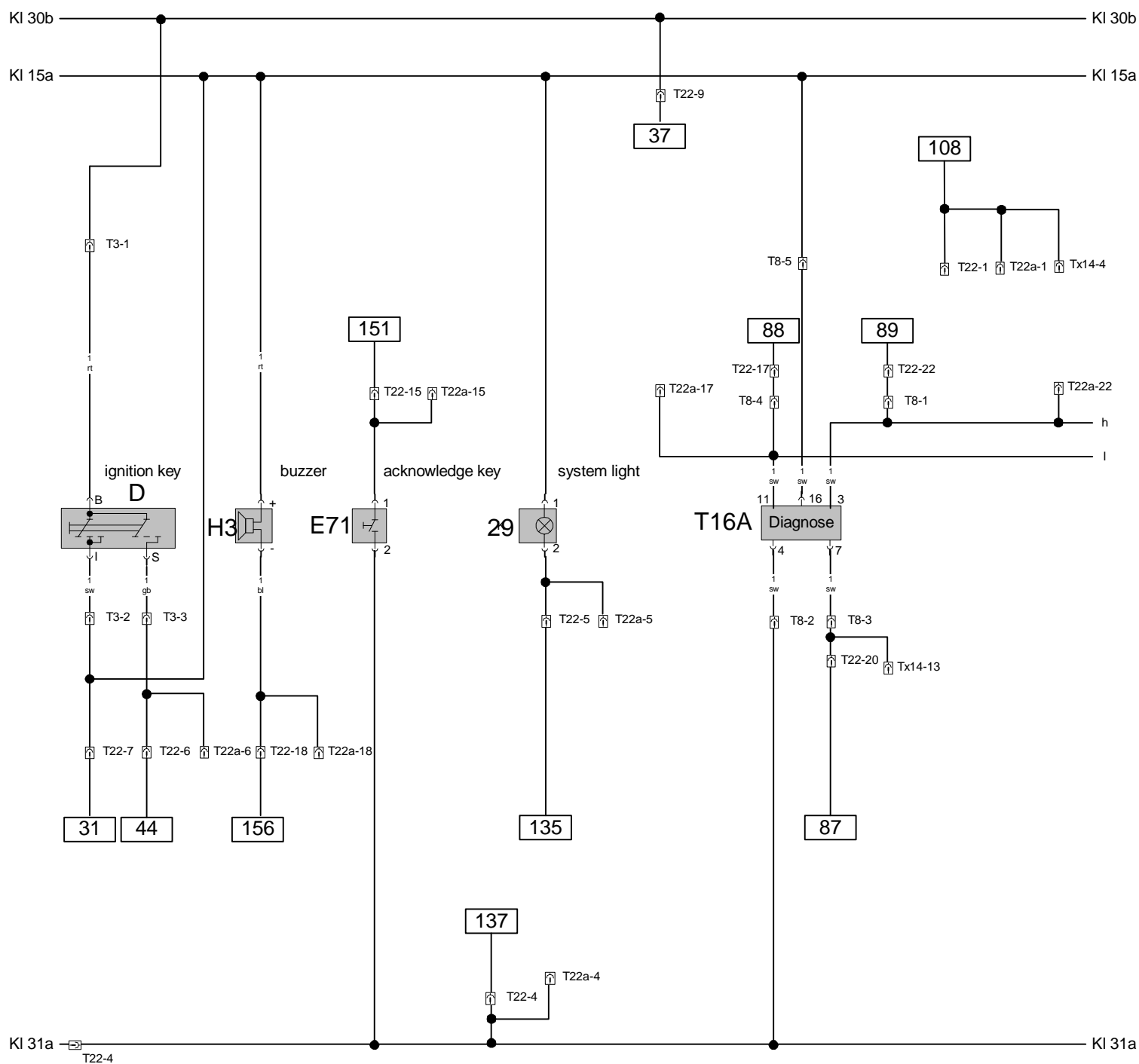
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Instruments



- 1 - plate or panel
- 2 - Connector T22 from central electric
- 3 - Connector T22a to Flybbridge
- 4 - Connector T3 to ignition key
- 5 - Fuse S2 - 2 Amp. terminal 30
- 6 - Fuse S1 - 2 Amp. terminal 15
- 7 - Relay instrument lights
- 8 - Connector T5 for oil pres. gauge
- 9 - Connector T6 for coolant temp. gauge
- 10 - buzzer
- 11 - Connector T12 für tachometer / mfd
- 12 - Connector T4 - für Voltmeter
- 13 - Connector X14 - conntor
- 14 - seal (only mini panel)

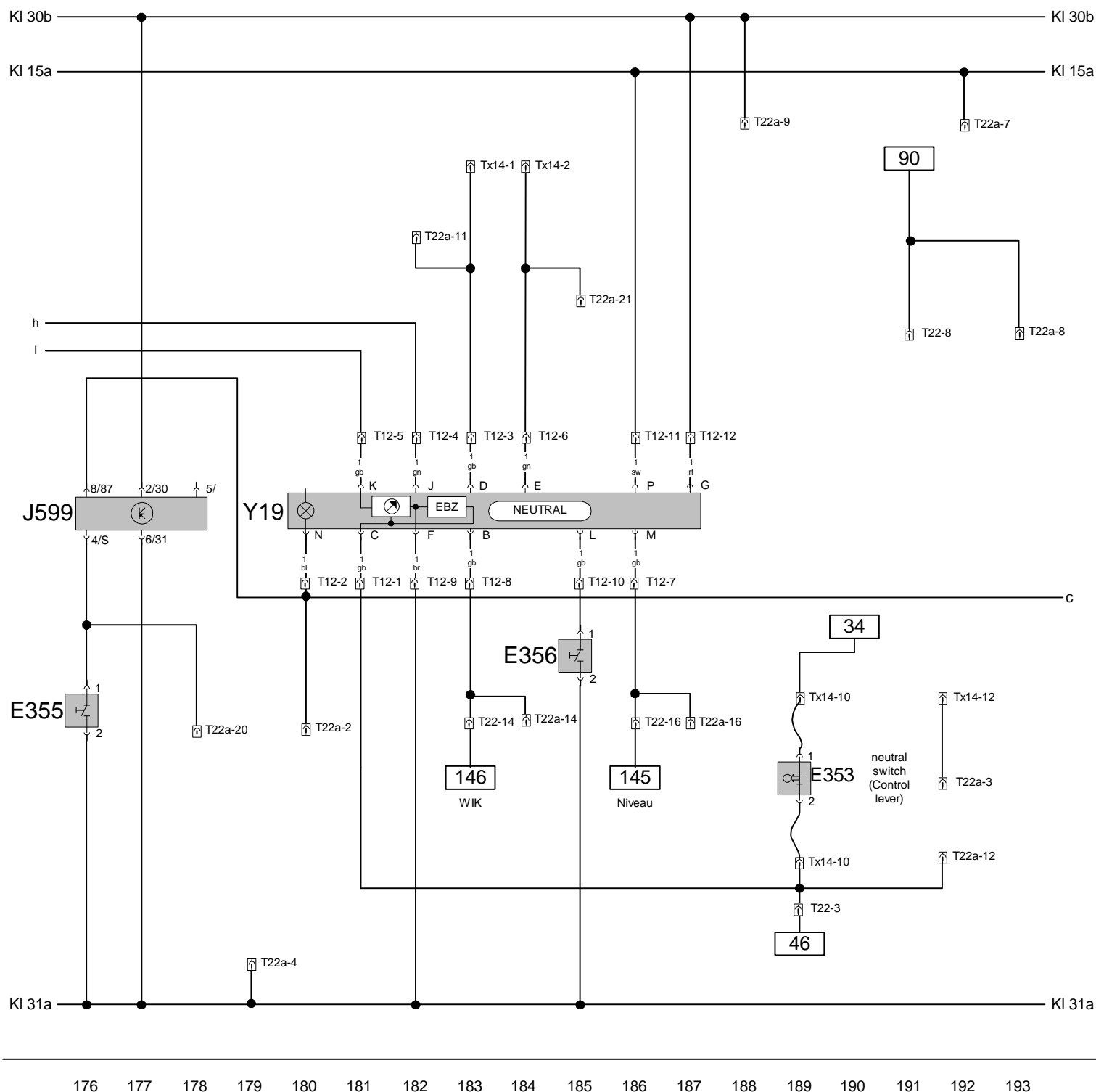


D ignition key
 H3 buzzer
 E71 key "alert acknowledge"
 K29 system light
 T16A Diagnose connection (panel)
 T37 37pin connector on central electric
 T3 3pin connector for ignition key
 T22 22pin connector from central electric
 T22a 22pin connector to flybridge

h, l connection on panel
 T8 8pin connector on panel

Colors:

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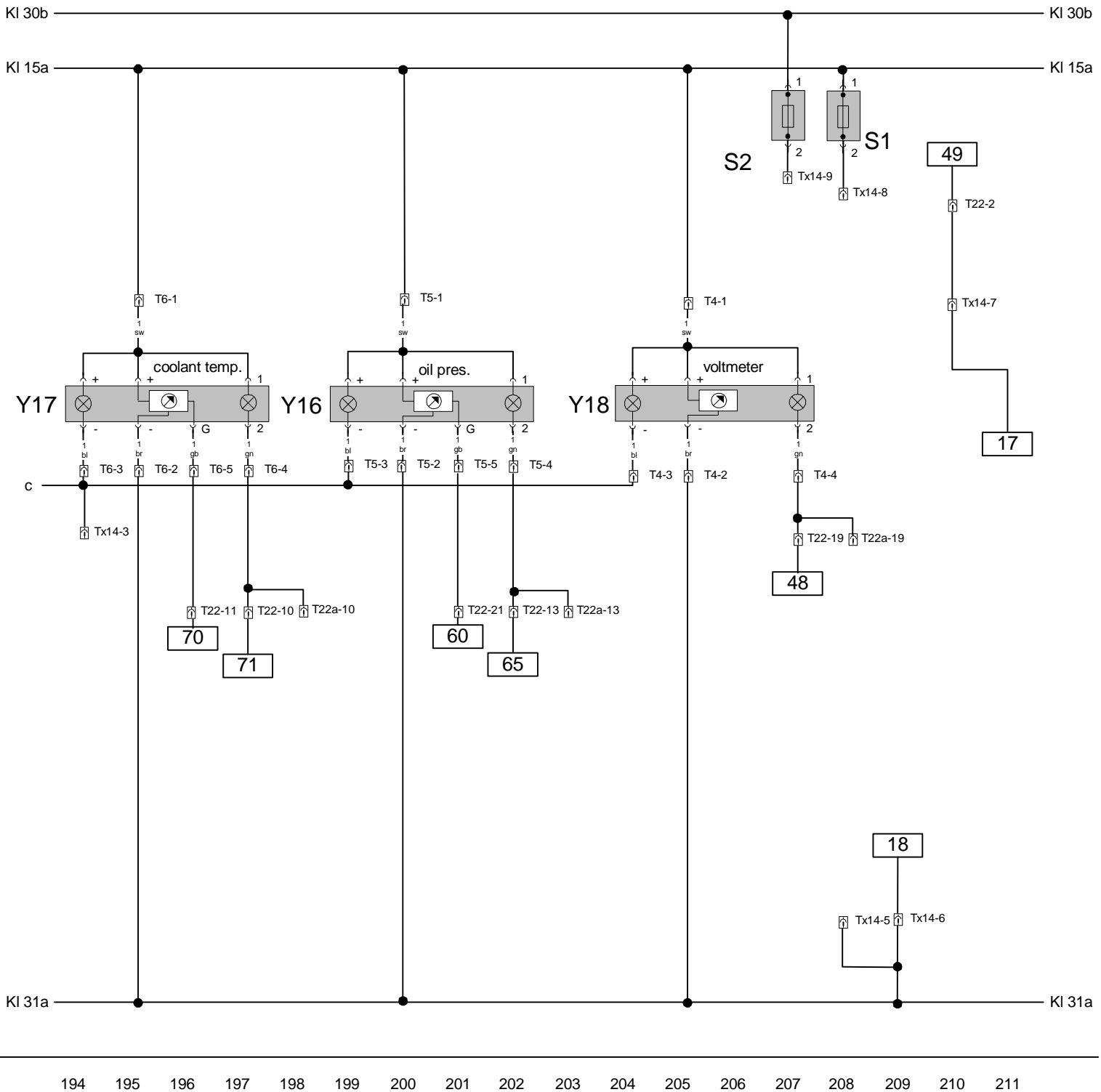


- J599 relay instr. light dim
- E355 dimming key
- E356 key for multi function display (mfd)
- Y19 tacho with mdf
- T12 12pin connector for tacho / mdf
- Tx14 14pin connector for options
- E353 neutral switch in control lever
- T22 22pin connector from central electric
- T22a 22pin connector to flybridge

h, l, c connection on panel

Colors:

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Y17 coolant gauge
Y18 voltmeter
Y16 oil pressure gauge
T22 22pin connector from central electric
T22a 22pin connector to flybridge
T4 4pin connector for voltmeter
T6 6pin connector for coolant gauge
T5 5pin connector for oil pressure gauge

c connection on panel

Colors:

rt = red sw = black bl = blue
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gn = green li = violet