



R.DI.C7H-MonoBCU

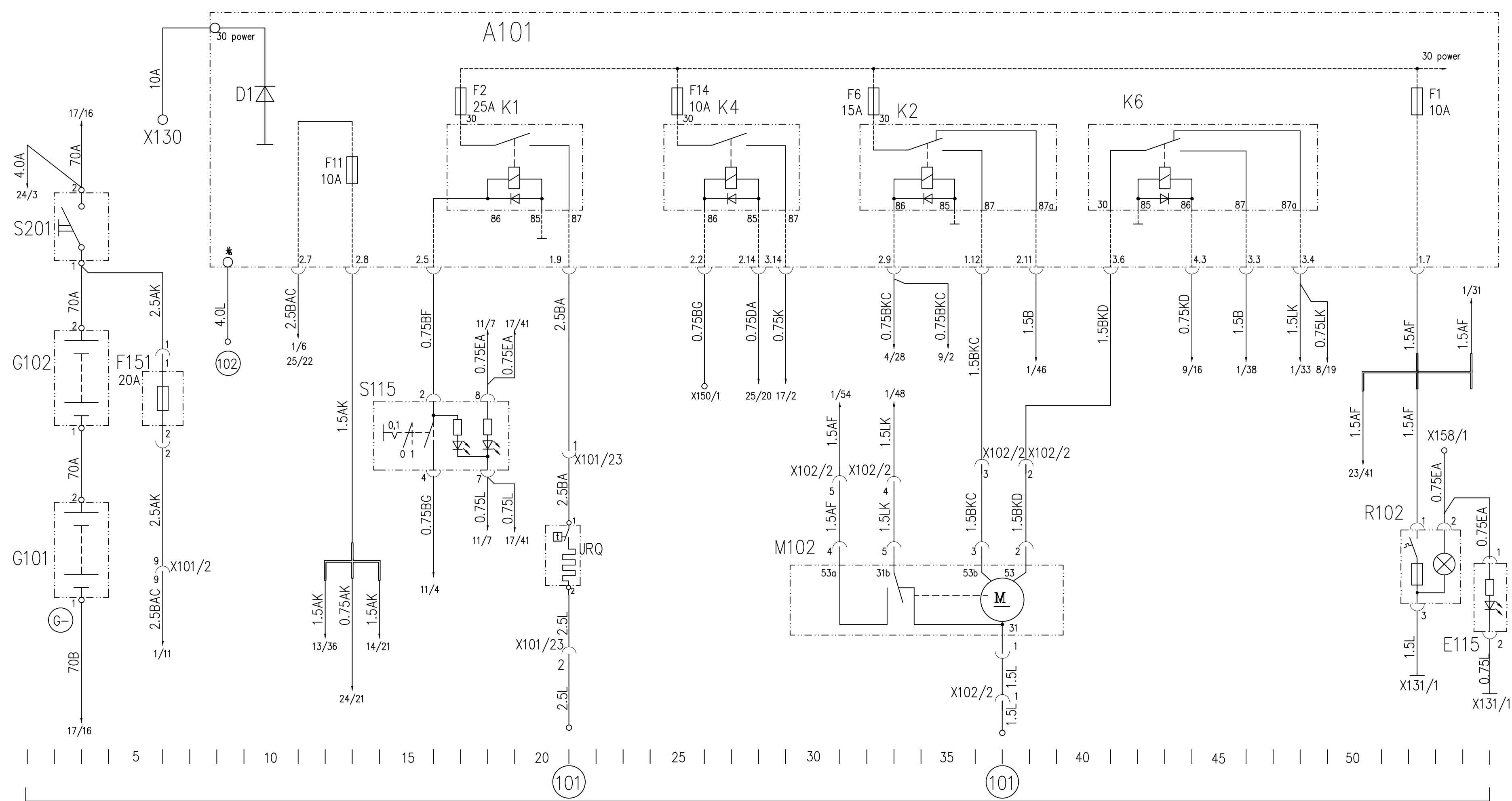
SITRAK-C7H (MonoBCU + TFT DASHBOARD) DIAGRAM

(2017-01 Edition)

**SINOTRUK
INTERNATIONAL
AFTER SALES SERVICE DEPARTMENT
12.2017**

**NO.777 Hua'ao Road, Jinan,
Shandong Province, China,250101
1st Edition
English**

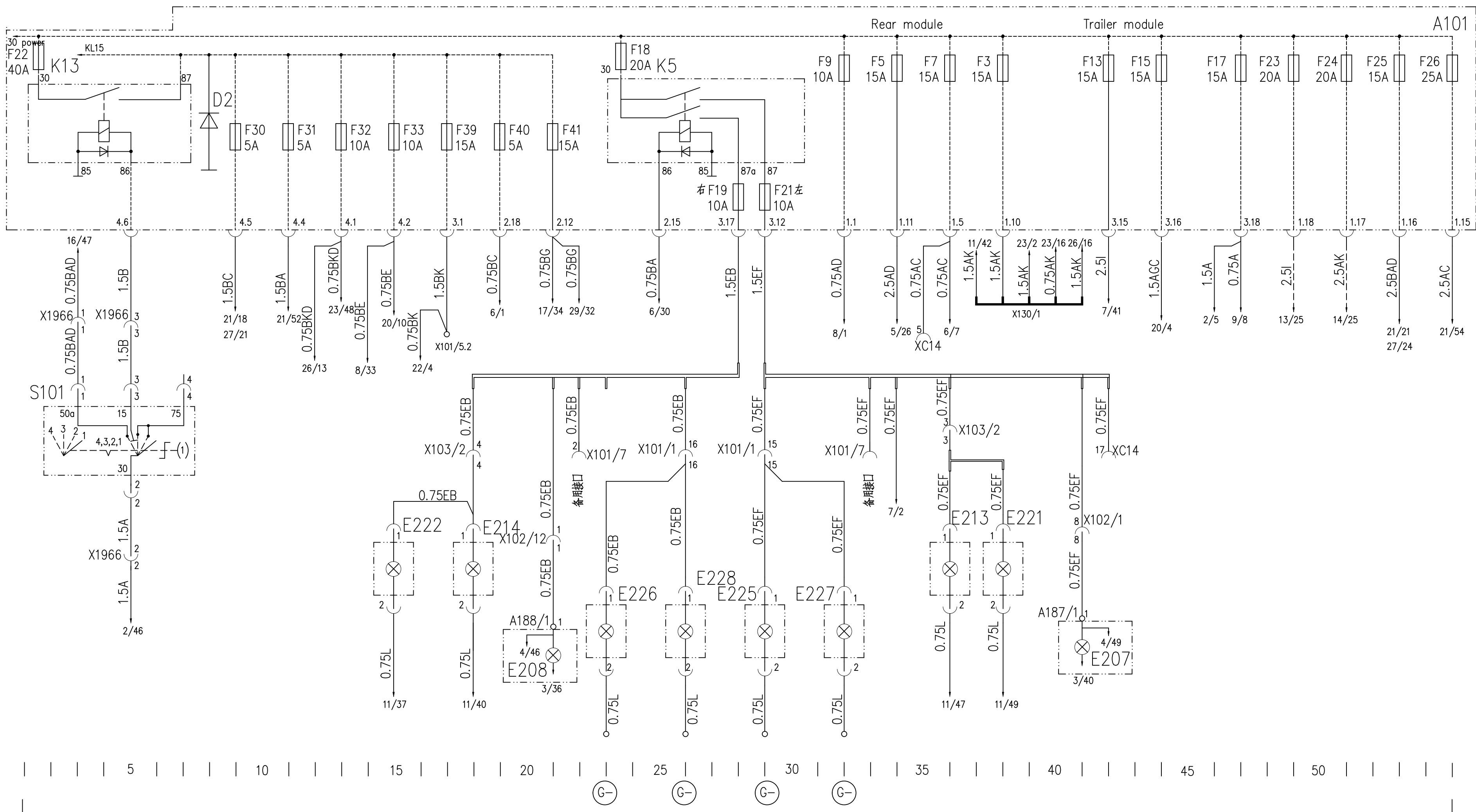
SITRAK–C7H (Mono+TFT) DIAGRAM (2017–01)–1



A101	Fuse & relay box	K1	Filter heating relay	F14	10A K4 relay fuse
G101	Battery I	K2	Wiper high speed relay	X131/1	Cab inner GND point splitter
G102	Battery II	K4	ADR D+ relay	X158/1	Symbol lighting power splitter
S201	Mechanical power switch	K6	Wiper low speed relay	X150/1	15# power splitter
M102	Wiper motor	F1	Cigarette lighter fuse	S115	Pre-filter heating switch
R102	24V Cigarette lighter	F2	25A pre-filter heating device relay fuse	JRQ	Pre-filter heating device
F151	Fuse	F6	15A wiper high speed relay fuse	E115	Ashtray lighting
D1	Diode	F11	10A often power fuse		

Fuse & relay box, power system
Wiper motor, cigarette lighter
⑩ Instrument side GND

SITRAK-C7H (Mono+TFT) DIAGRAM (2017-01)-2

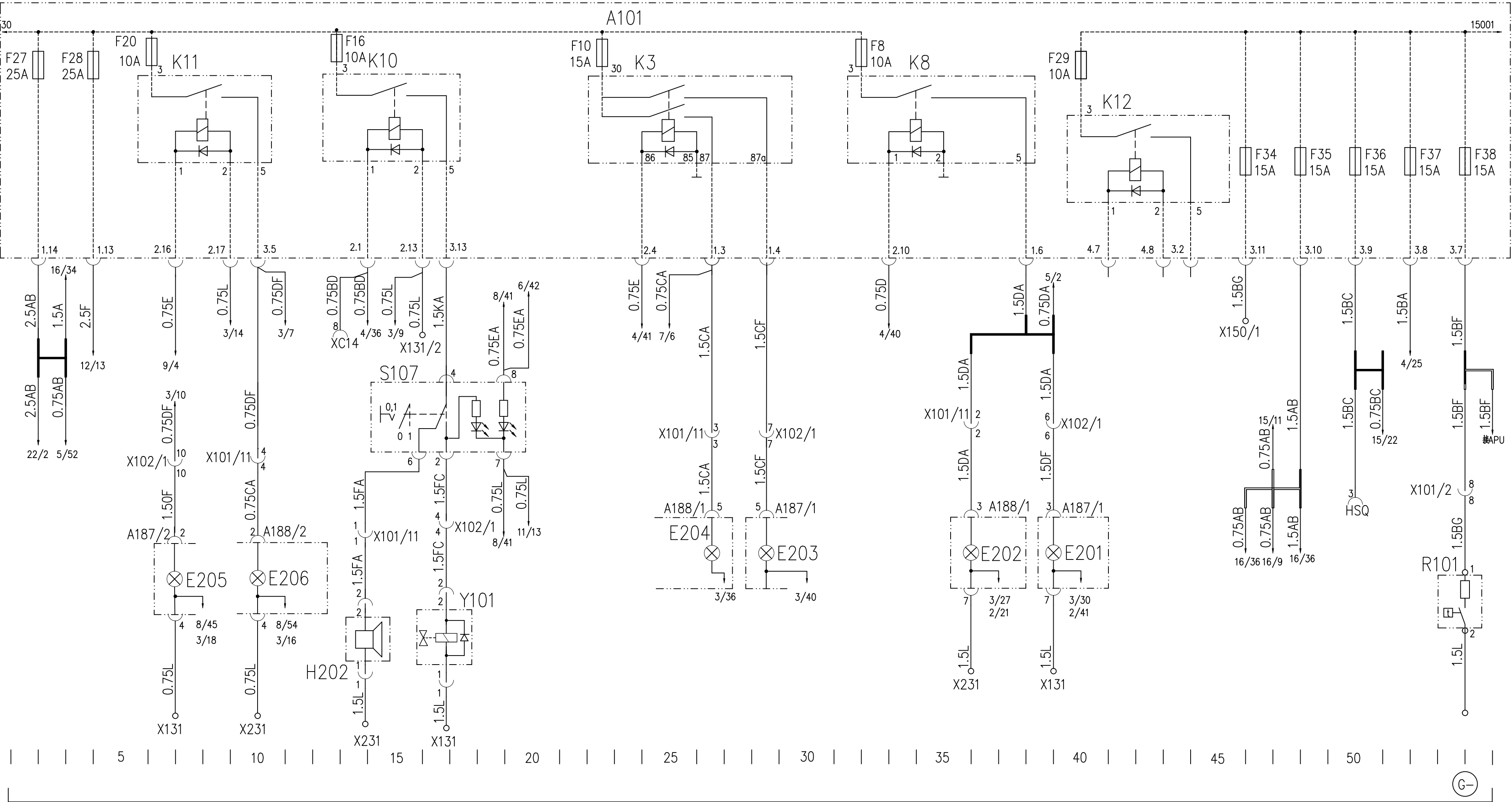


A101	Fuse & relay box	F13	Trailer model fuse	F25	Main vehicle ABS30 power fuse	E207、E208	Left & right front position lights
D2	Diode	F15	TCU fuse	F26	Trailer ABS30 power fuse	E213、E214	Left & right indicate high light
K5	Location light relay	F17	NANO key switch fuse	F30	Main vehicle ABS15 power fuse	E221、E222	Left & right rear position lights
K13	15 power relay	F18	Location light relay fuse	F31	Trailer ABS15 power fuse	E225、E226	Left & right front sign lights
F3	VDR、MP5 OBD fuse	F19	Right location light fuse	F32	Vehicle monitoring equipment 15 power fuse	E227、E228	Left & right rear sign lights
F5	Vehicle rear module fuse	F21	Left location light fuse	F33	NANO TCU 15 power fuse		
F7	Instrument BBM fuse	F22	40A15 power relay fuse	F40	Instrument 15 power fuse		
F9	NANO fuse	F23	Left door control switch fuse	F41	ECU SCR 15 power fuse		
F39	ECAS fuse	F24	Right door control switch fuse	S101	Key switch		

Relay & fuse box, key switch

(G-) Battery -

SITRAK-C7H (Mono+TFT) DIAGRAM (2017-01)-3

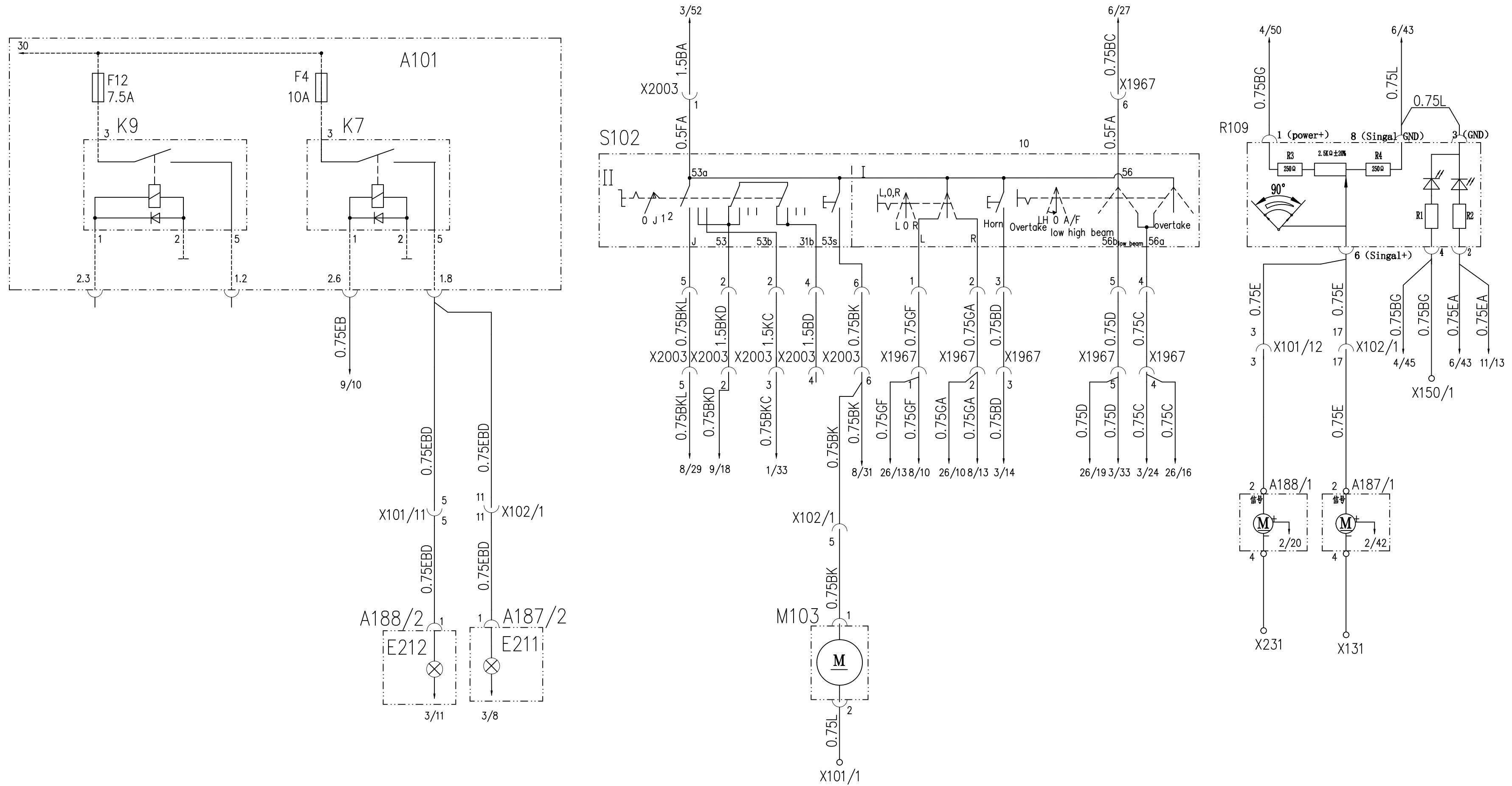


A101	Fuse & relay box	F16	Horn relay fuse	F38	Air drier fuse	E201、E202	Left & right low beam lights
K3	High beam relay	F20	Auxiliary high beam relay fuse	F35	VCU fuse	E203、E204	Left & right high beam lights
K8	Low beam relay	F27	ECAS VCU fuse	S107	Horn change switch	E205、E206	Left & right auxiliary high beam
K10	Horn relay	F28	AC power fuse	H202	Electric horn	X231	Right junction box GND
K11	Auxiliary high beam relay	F29	Spare fuse	Y101	Air horn solenoid valve	X131	Left junction box GND
K12	Spare relay	F34	VCU fuse	R101	Air drier	X131/1	GND splitter
F8	Spare relay fuse	F36	Retarder 15 power fuse	A187	Left combination headlight assembly		
F10	High beam relay fuse	F37	Wiper switch fuse	A188	Right combination headlight assembly		

Fuse & relay box, horn, high beam, low beam

 Battery -

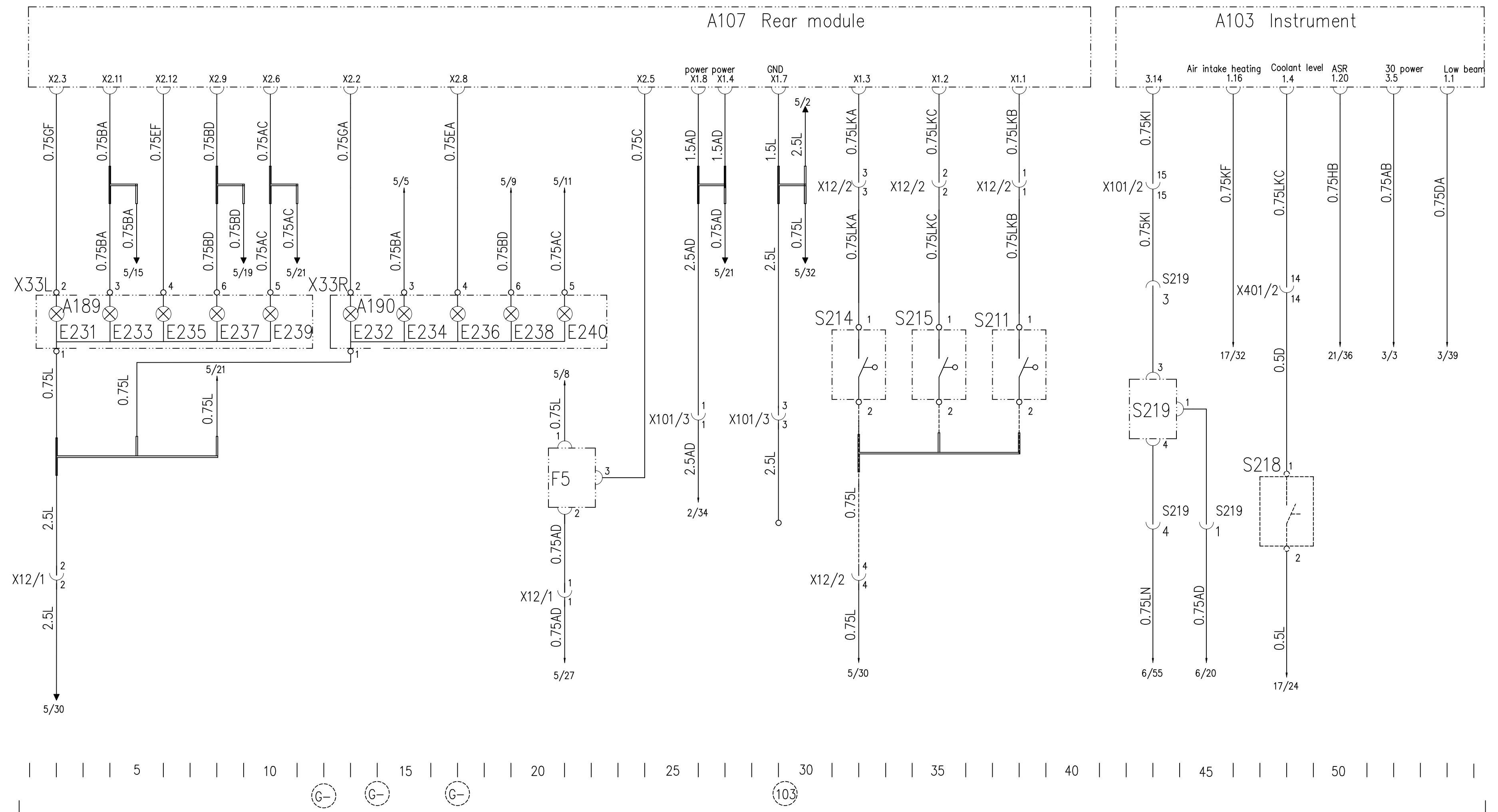
SITRAK-C7H (Mono+TFT) DIAGRAM (2017-01) -4



A101	Fuse & relay box	M103	Washing motor
S102	Left combination switch	A187	Left combination headlight assembly
K7	Front fog light relay	A188	Right combination headlight assembly
K9	Spare relay	E211、E212	Left\right front fog light
F4	Front fog relay fuse	R109	Light adjustment switch
F12	Spare relay fuse		

Relay & fuse box, Fog light, Left combination switch

SITRAK-C7H (Mono+TFT) DIAGRAM (2017-01)-5

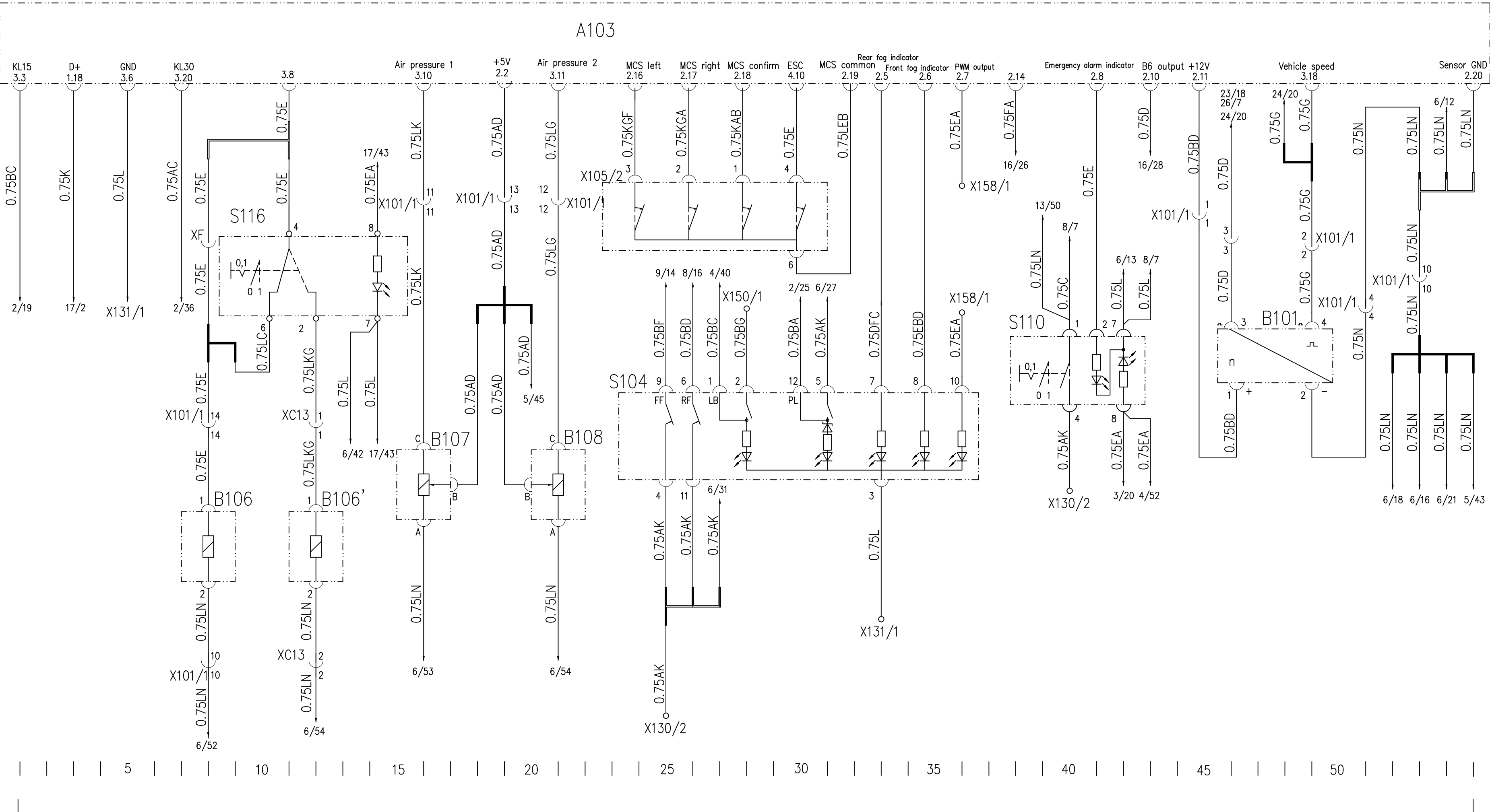


A103	Instrument	S215	Rear second axle interwheel differential lock sensor	S218	Coolant level switch
A107	Rear module	E231/E232	Main vehicle turning lights	S219	Air filter blocking alarm switch
A189	Left rear taillight assembly	E233/E234	Main vehicle brake lights	F5	Reverse buzzer
A190	Right rear taillight assembly	E235/E236	Main vehicle rear location lights		
S211	Rear interaxle differential lock sensor	E237/E238	Main vehicle rear fog lights		
S214	Rear first interwheel differential lock sensor	E239/E240	Main vehicle reverse lights		

Rear module\Instrument

(G-) Battery -

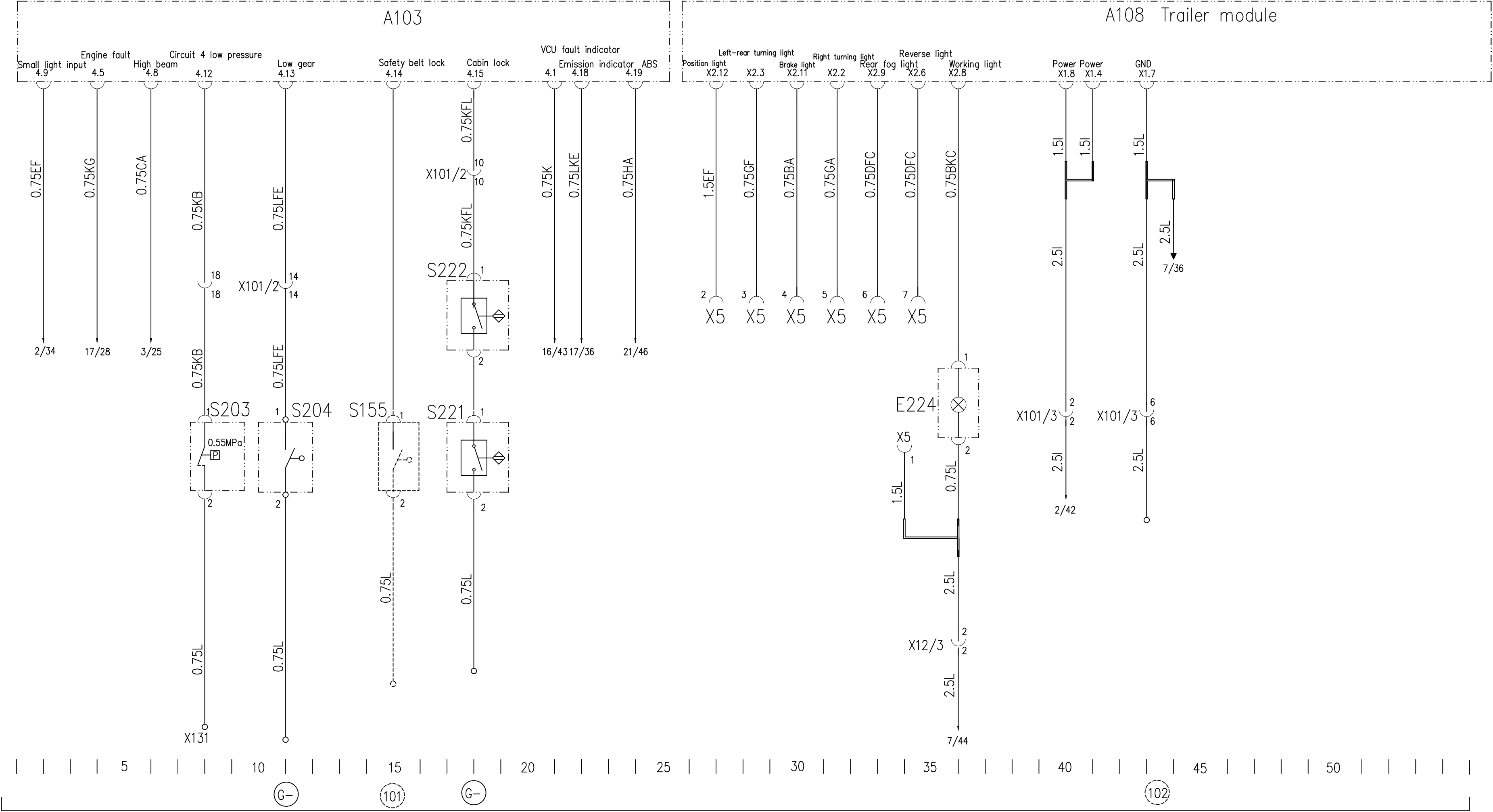
SITRAK-C7H (Mono+TFT) DIAGRAM (2017-01)-6



A103	Instrument	B106	Fuel level sensor
S104	Light knob switch	B107	Brake circuit 1 air pressure sensor
S110	Emergency alarm switch	B108	Brake circuit 2 air pressure sensor
S116	Fuel tank change switch	X130/2	Rocker switch 30 power splitter
X105/2	Knob switch	X158/1	Small lighting power splitter
B101	Vehicle speed sensor	X131/1	Left front junction box GND

Instrument\Air pressure sensor\vehicle speed sensor\Emergency alarm switch

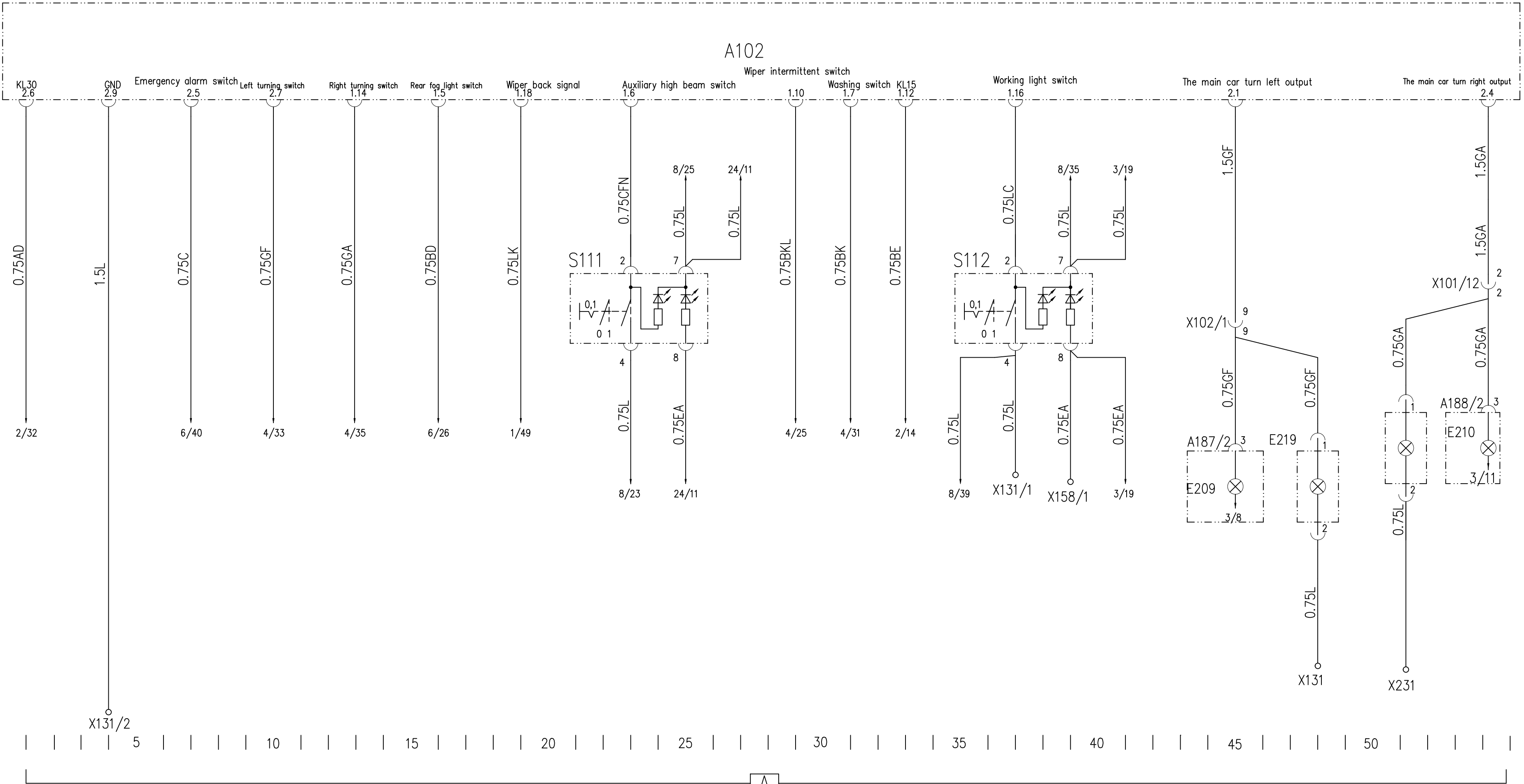
SITRAK-C7H(Mono+TFT)DIAGRAM(2017-01)-7



A103	Instrument	S222	Cab right lock signal switch
A108	Trailer module	S221	Cab left lock signal switch
S155	Seat belt lock signal switch	E224	Working light
S203	Brake circuit 4 signal switch	X131	Left junction box GND
S204	Low gear signal switch	X5	Trailer socket

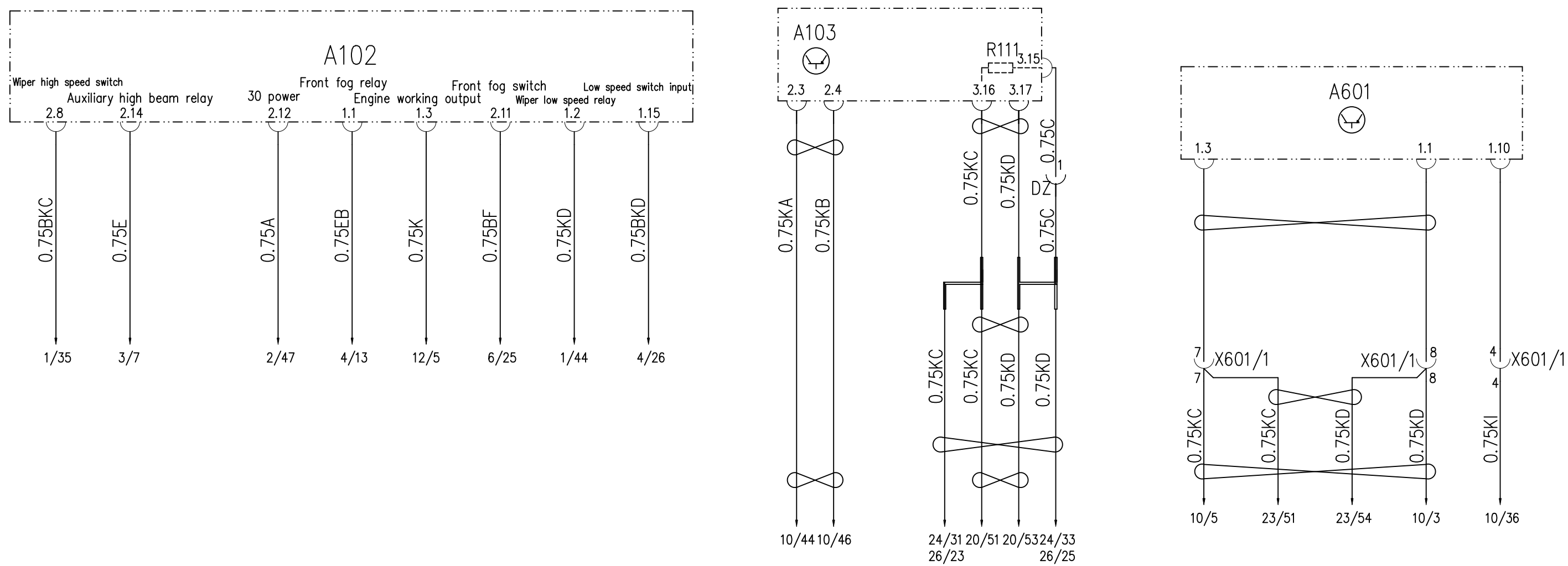
Instrument\Trailer module\Cabin lock\belt
Battery -

SITRAK-C7H (Mono+TFT) DIAGRAM (2017-01)-8



A102	NANO control	E209	Left front turning light
S111	Auxiliary high beam switch	E210	Right front turning light
S112	Working light switch	E219	Left side turning light
A187	Left headlight assembly	E220	Right side turning light
A188	Right headlight assembly		

SITRAK-C7H (Mono+TFT) DIAGRAM (2017-01)-9



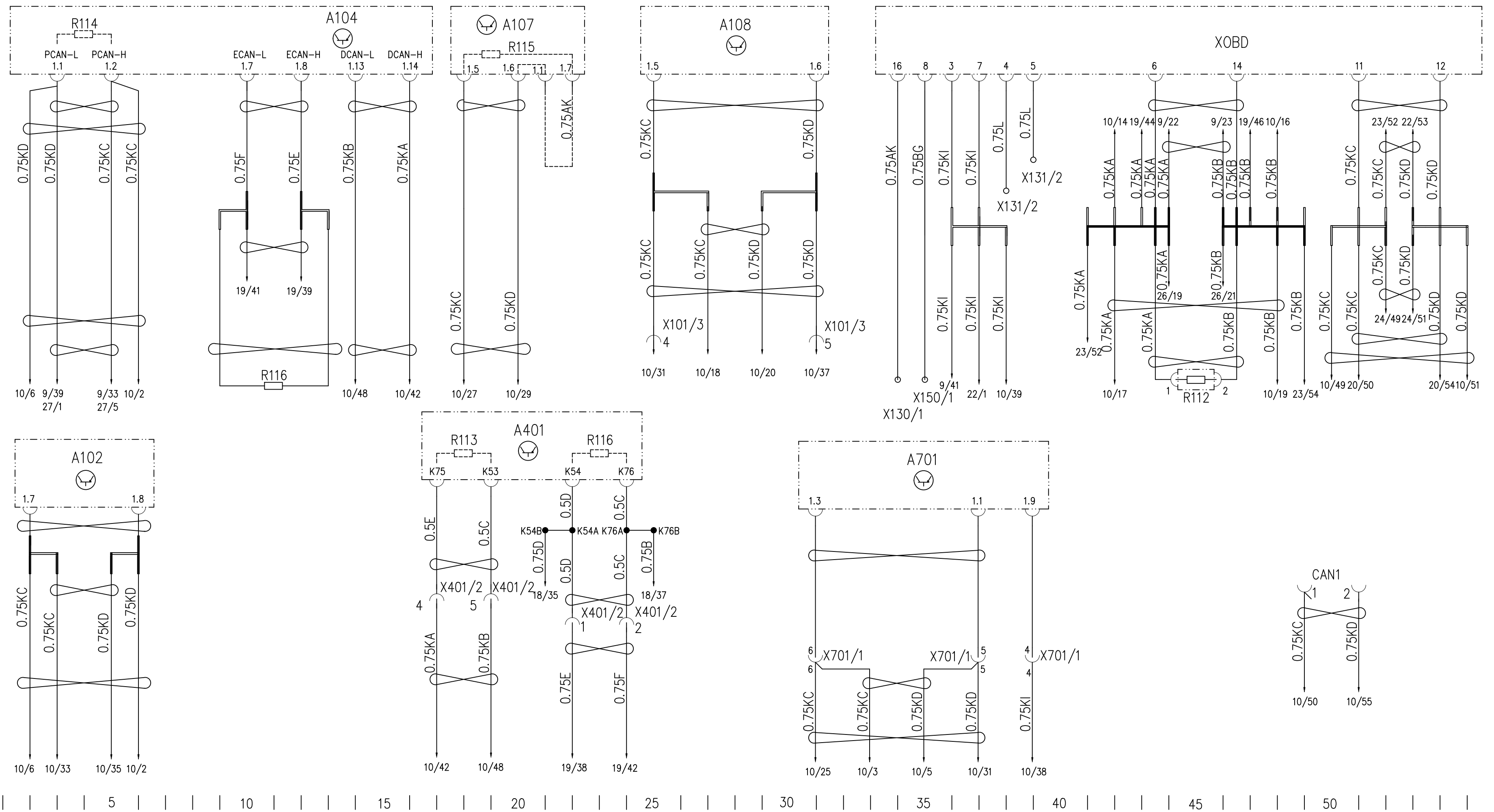
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A102	NANO controller
A103	Instrument
A601	ABS controller

(101) Cabin driver's side GND

NANO control、Vehicle CAN

SITRAK-C7H (Mono+TFT) DIAGRAM (2017-01)-10

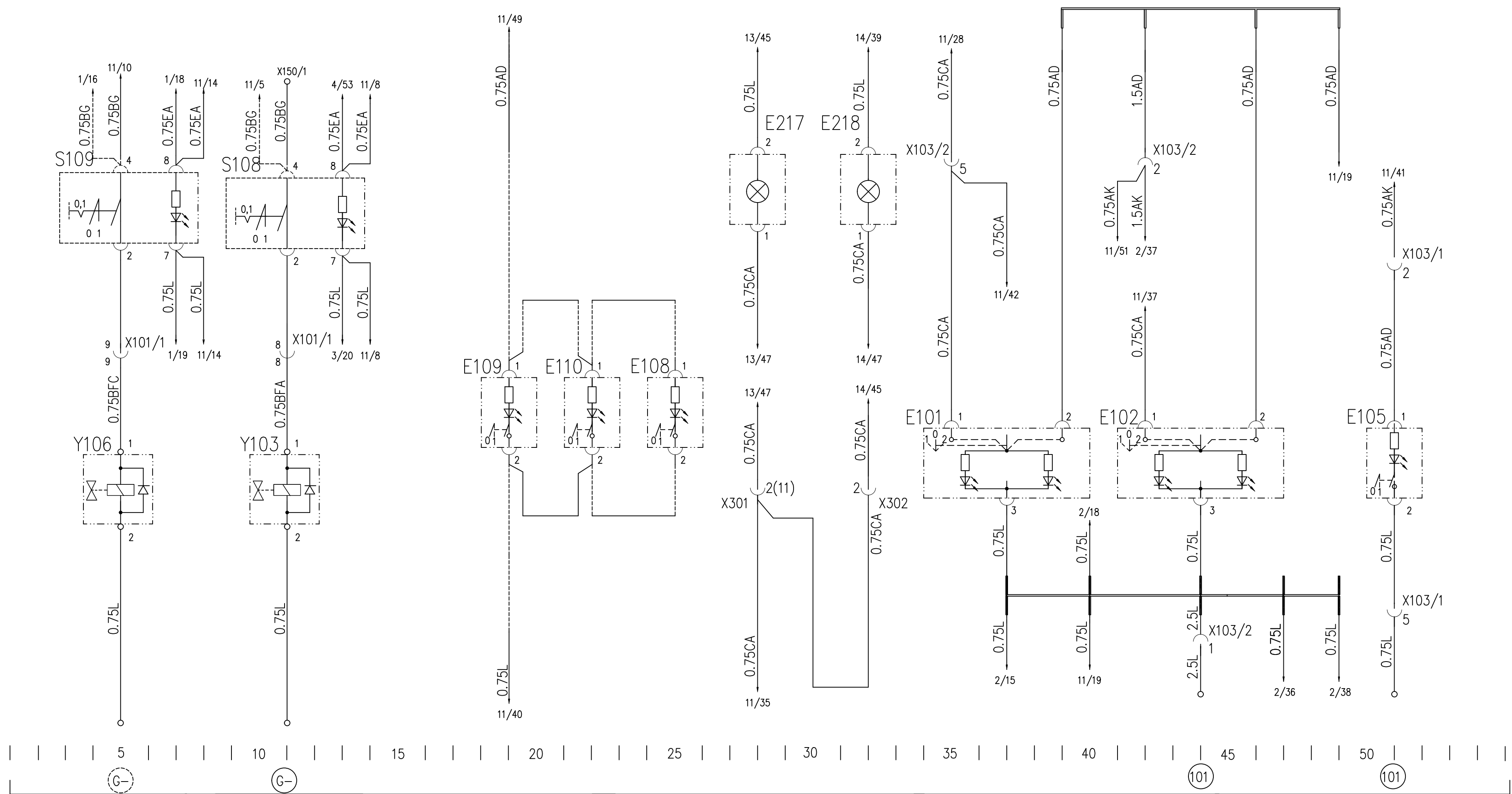


A102	NANO controller	A401	Engine ECU	R111	120 Resistance	R115	120 Resistance
A104	VCU	A701	ECAS controller	R112	120 Resistance	R116	120 Resistance
A107	Vehicle rear module	XOBD	Diagnostic interface	R113	120 Resistance		
A108	Trailer module			R114	120 Resistance		

Vehicle CAN

(101) Cabin driver's side GND

SITRAK-C7H (Mono+TFT) DIAGRAM (2017-01)-11

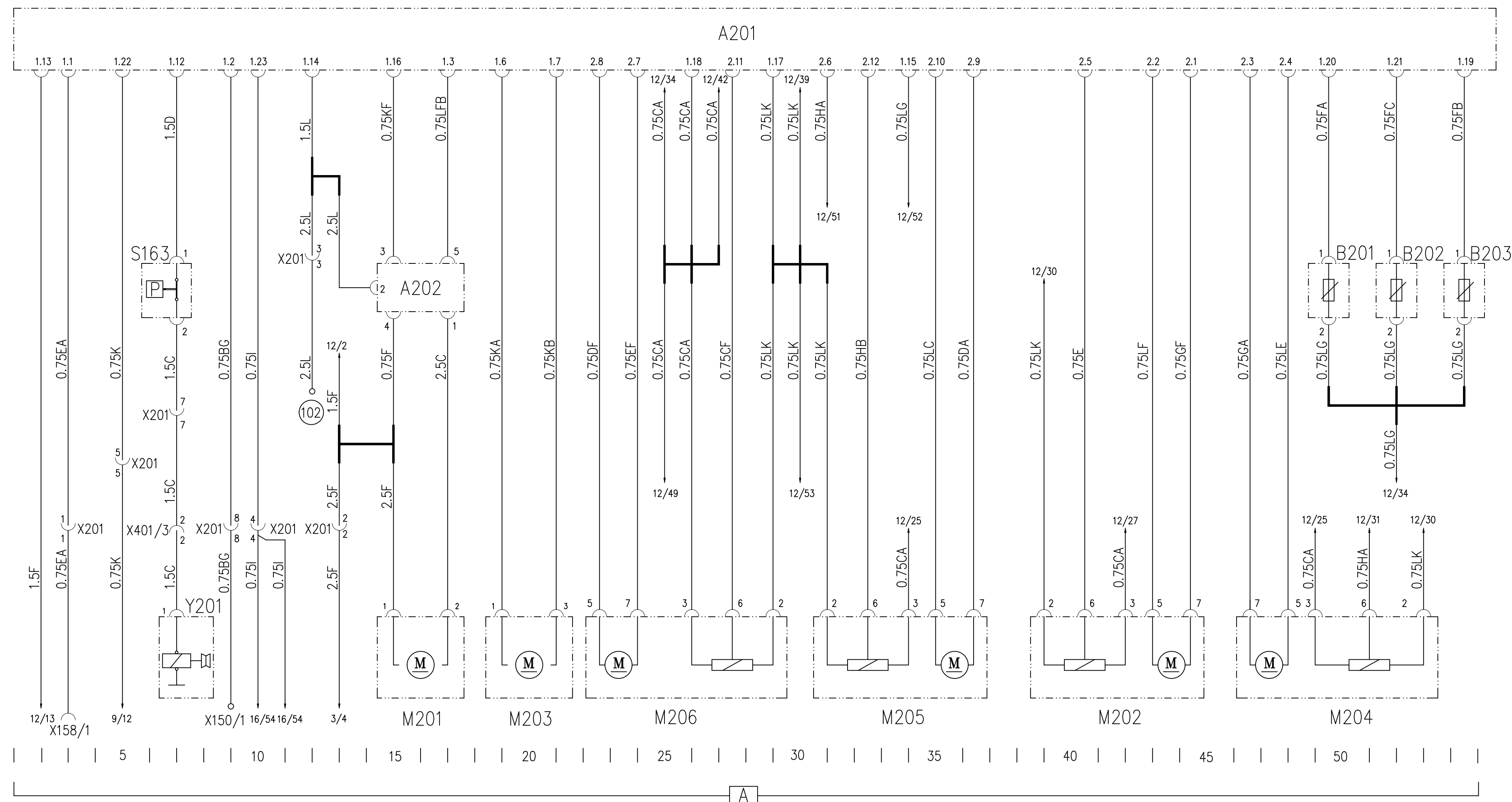


E101	Left internal light	E217	Left door light
E102	Right internal light	E218	Right door light
E105	Sleeper light	S108	Inter-wheel differential switch
E108	Grocery box lights	S109	Inter-axle differential switch
E109	Grocery box lights	Y103	Inter-wheel differential solenoid valve
E110	Grocery box lights	T106	Inter-axle differential solenoid valve

Wheel differential\ Inner light

(101) Cabin driver's side GND

SITRAK-C7H (Mono+TFT) DIAGRAM (2017-01)-12

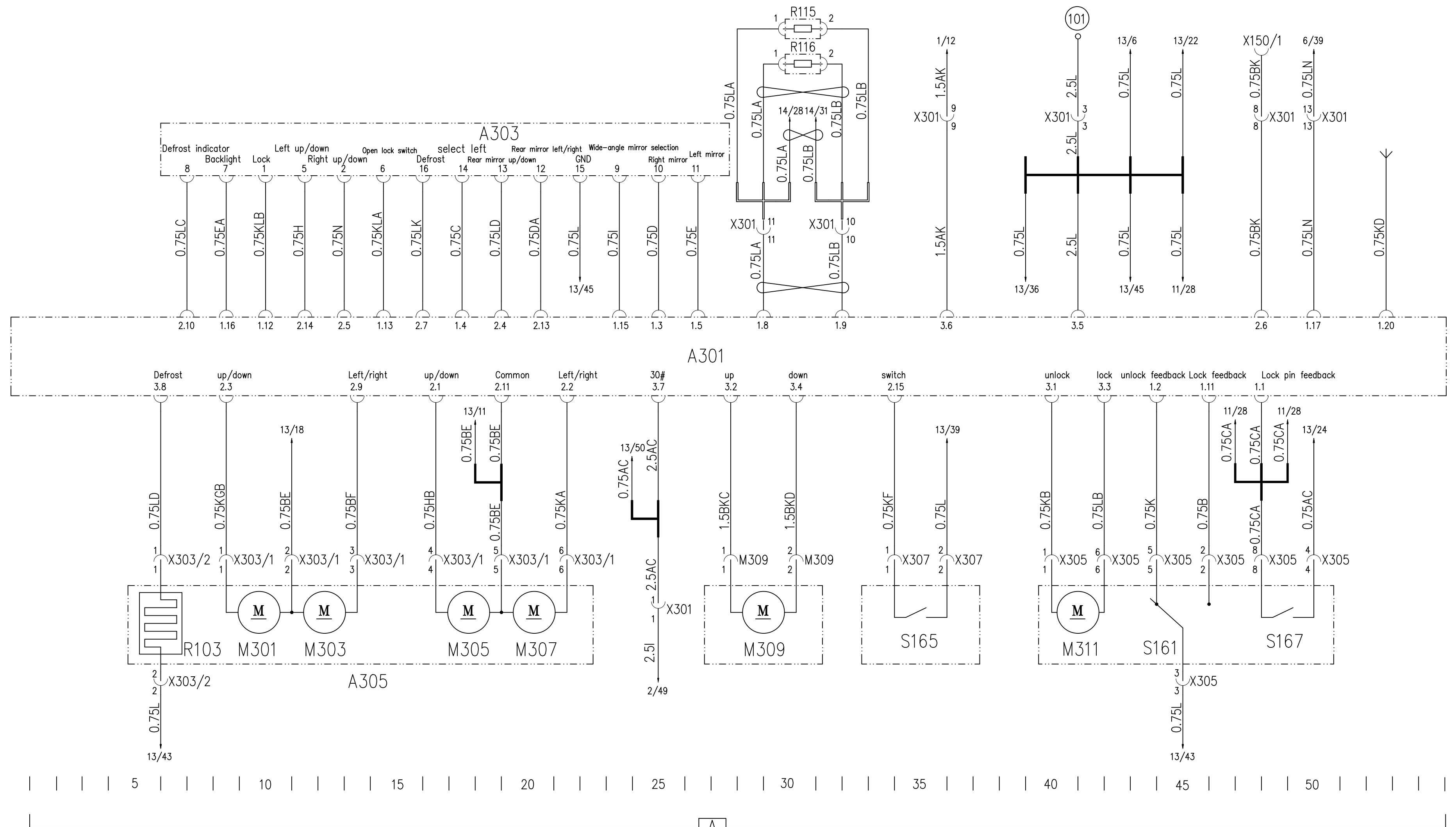


A201	AC control module	M201	Fan motor
A202	Speed control module	M202	Mode Motor II
B201	Cabin interior temperature sensor	M203	Cycle the motor
B202	Outdoor temperature sensor	M204	Cycle the motor I
B203	Evaporator temperature sensor	M205	Fan valve motor
S163	Pressure switch	M206	Water valve motor
Y201	Electromagnetic clutch		

Air conditioning control module peripheral circuits

(102) Cabin passenger's side GND

SITRAK-C7H (Mono+TFT) DIAGRAM (2017-01) -13

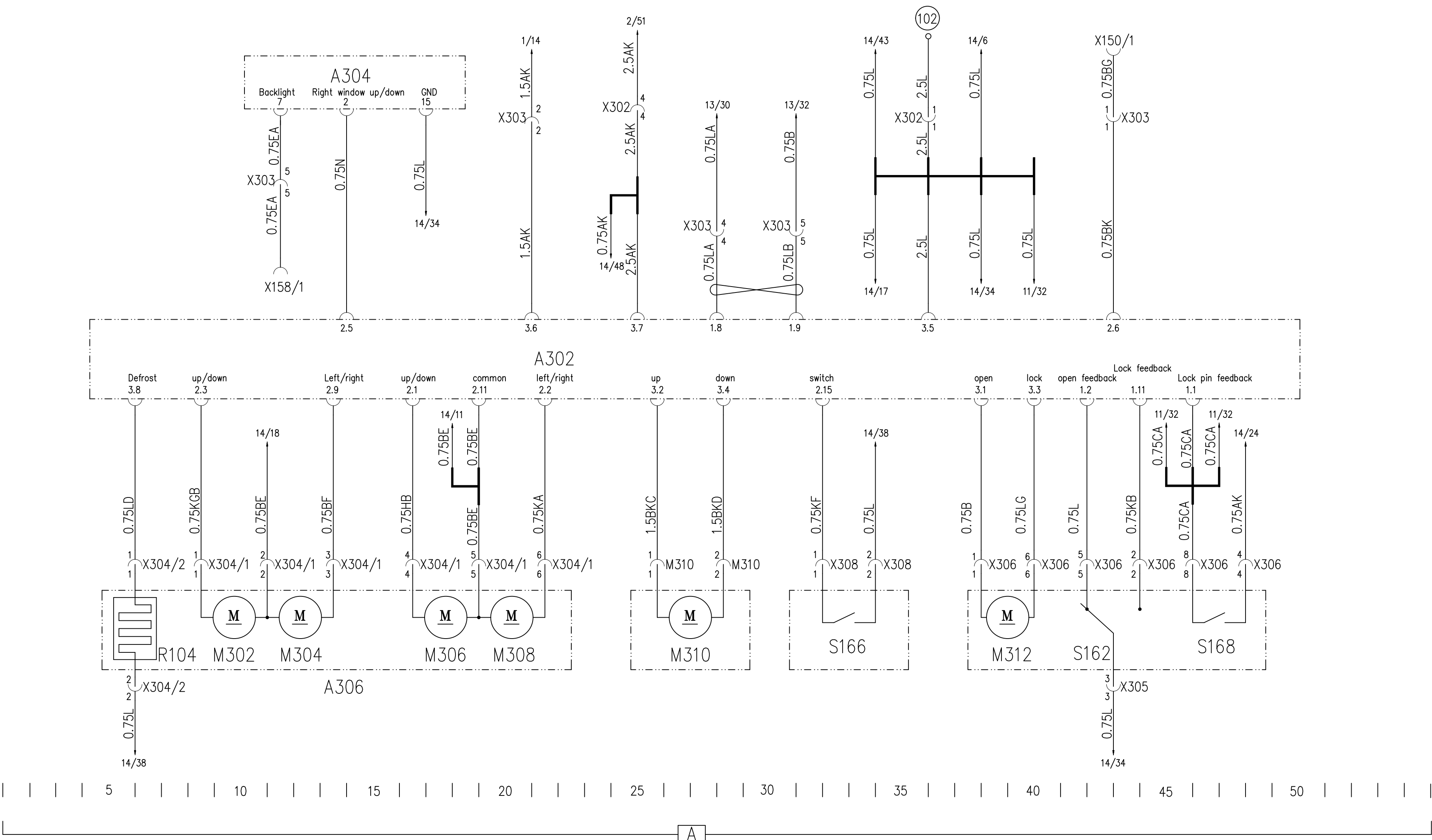


A301	Driver side door control module	M303	Driver side wide-angle mirror left / right movement motor
A303	Driver side door control panel	M305	Driver side rear mirrors up / down movement motor
A305	Driver side mirrors	M307	Driver side rear mirrors left / right movement motor
S161	Driver side operation panel unlock / lock switch	M309	Driver side door glass up / down motor
S165	Driver side key lock signal switch	M311	Driver side door lock motor
S167	Driver side lock feedback switch	R103	Driver side mirror defroster
M301	Driver side wide-angle mirror up / down movement motor		

Driver side door module peripheral circuit

⑩ Cabin driver's side GND

SITRAK-C7H (Mono+TFT) DIAGRAM (2017-01) -14

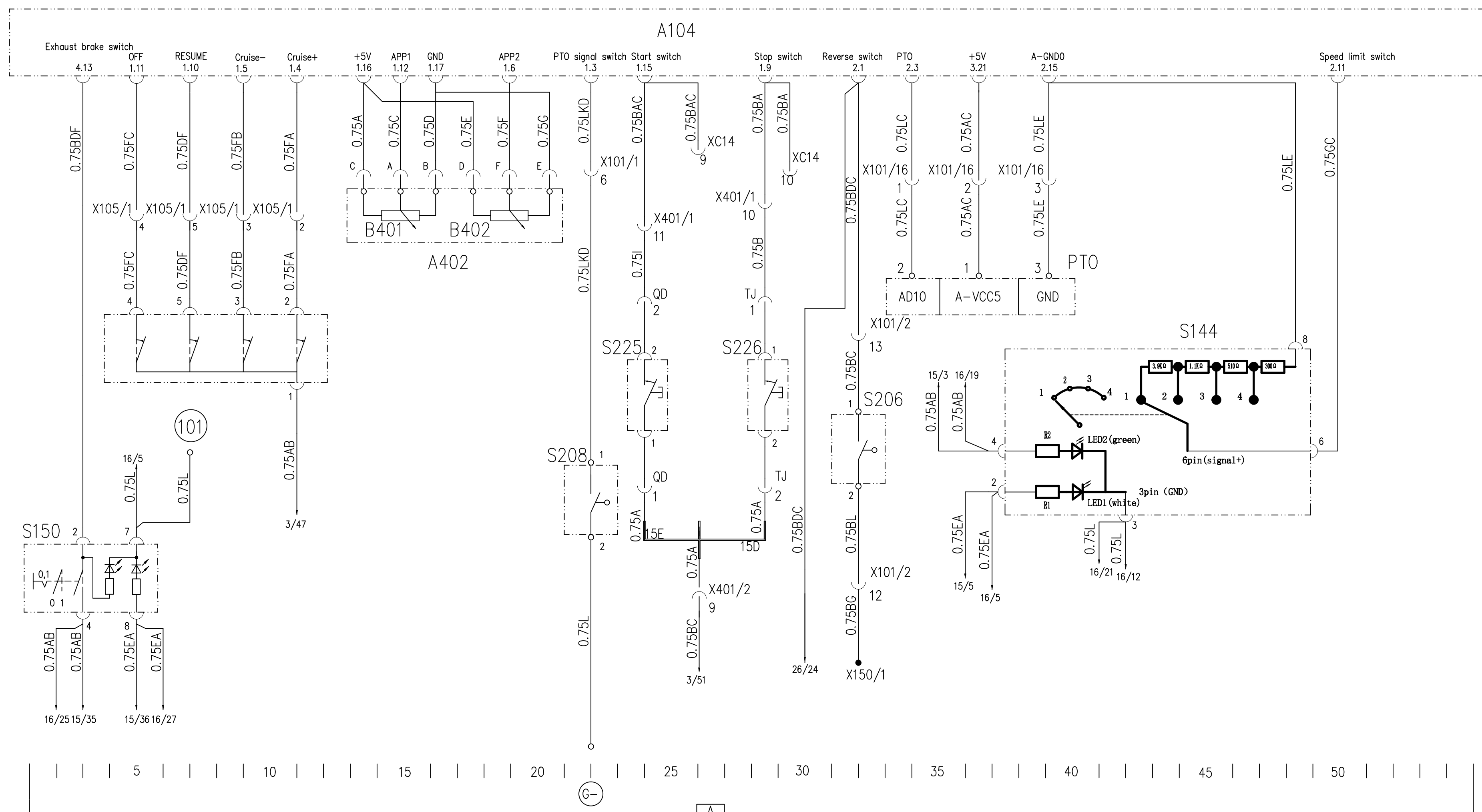


A302	Passenger door control module	M304	Passenger wide-angle left / right motor
A304	Passenger door control panel	M306	Passenger mirror up / down motor
A306	Passenger side rear mirror	M308	Passenger mirror left/right motor
S162	Passenger side operation panel unlock/ lock switch	M310	Passenger window up/down motor
S166	Passenger side key lock signal switch	M312	Passenger door lock motor
S168	Passenger side lock pin feedback switch	R104	Passenger mirror defrost
M302	Passenger wide-angle up/down motor		

Passenger side door control module peripheral circuit

(102) Cabin passenger side GND

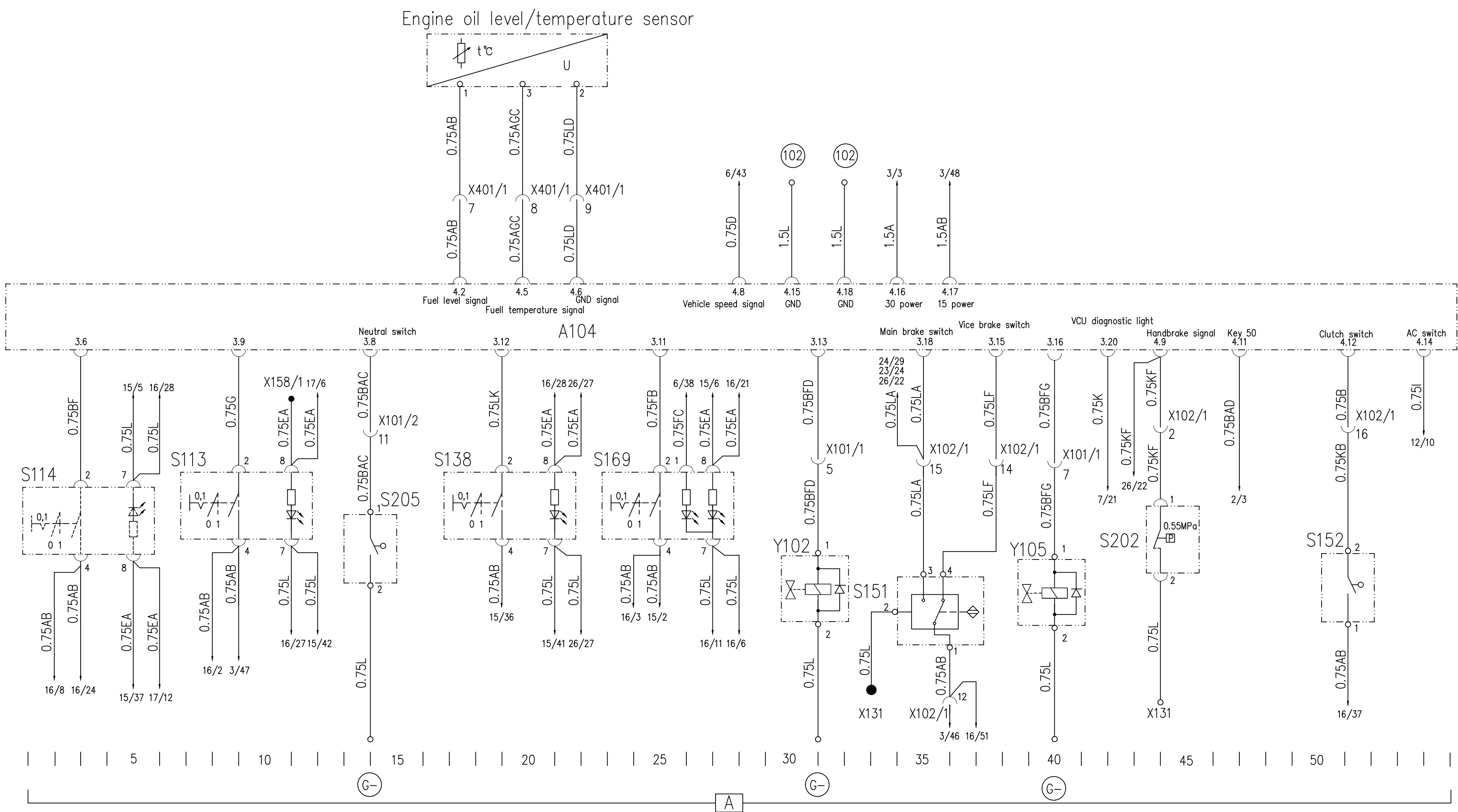
SITRAK-C7H (Mono+TFT) DIAGRAM (2017-01) -15



A104	VCU	S225	Car under the start button
A402	Electronic accelerator pedal	S226	Car under the stop button
S144	Engine speed mode switch	S208	PTO signal switch
S150	Exhaust brake switch	S206	Transmission reverse signal switch (not AMT)

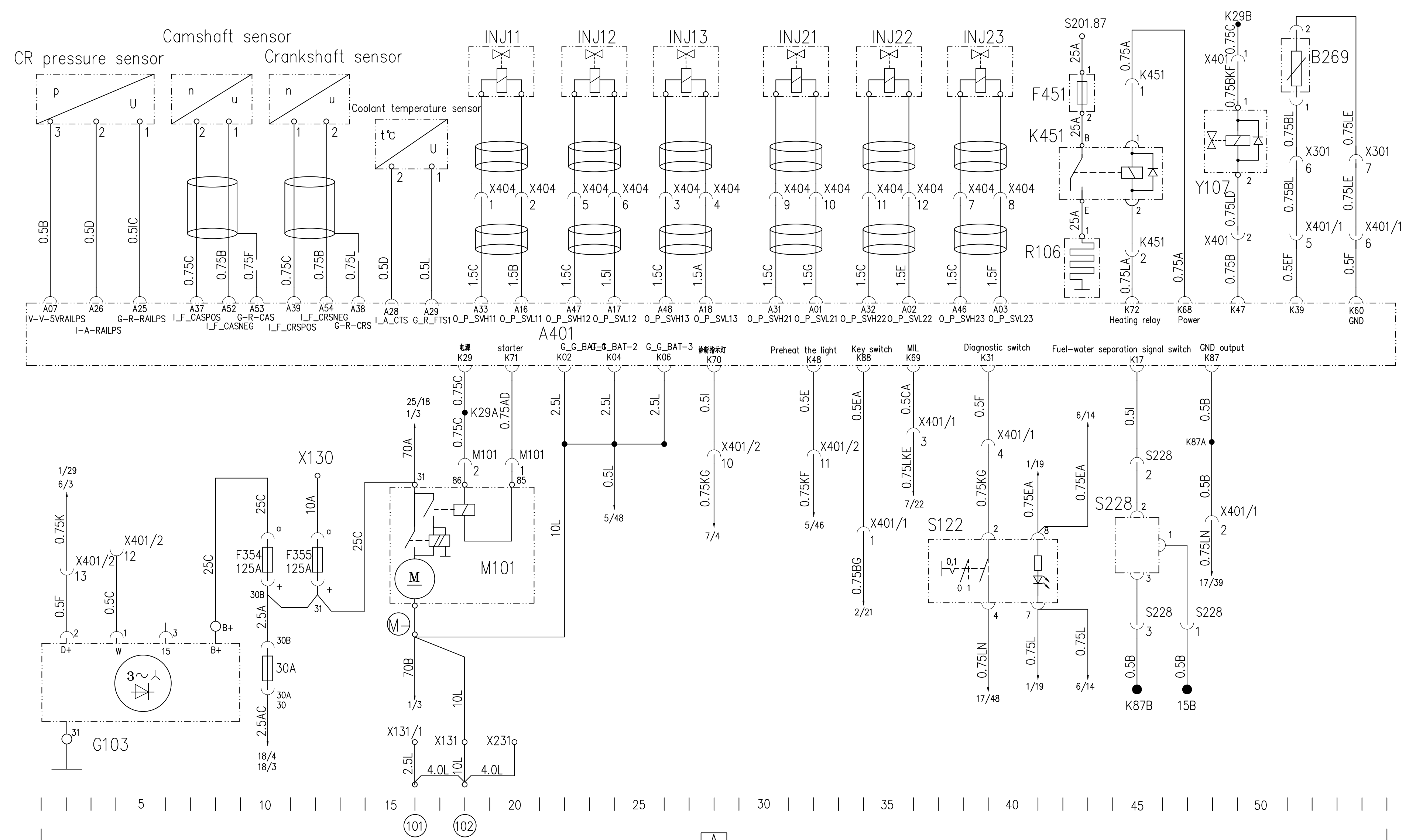
VCU peripheral circuits
(101) Driver side GND
(G-) Battery -

SITRAK-C7H (Mono+TFT) DIAGRAM (2017-01) -16



A104	VCU	S205	Transmission Neutral Switch (Non-AMT)	S169	Intelligent brake switch
Y102	Power take-off solenoid valve	S113	Power take-off switch		
Y105	Power take-off neutral solenoid valve	S114	Power take-off neutral switch		
S202	Hand brake signal switch	S138	Fuel-saving speed limit switch		
S152	Clutch switch	S151	Brake light switch		

SITRAK-C7H (Mono+TFT) DIAGRAM (2017-01)-17

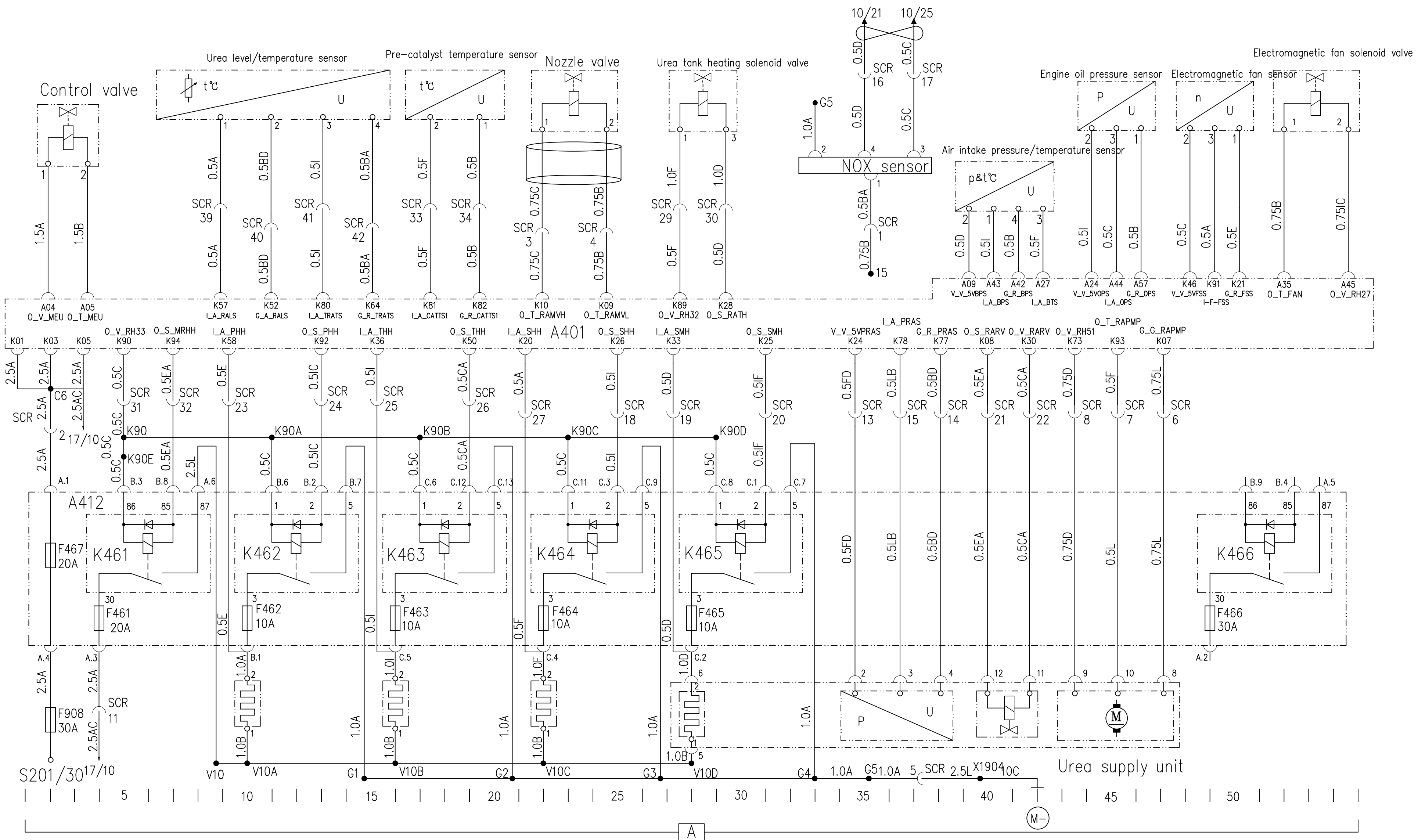


A401	ECU	K452	Fuel heating relay	INJ13	#3 Injector
F451	Preheater fuse	B269	Ambient temperature sensor	INJ21	#4 Injector
M101	Starter	K451	Preheat relay	INJ22	#5 Injector
S122	ECU Diagnostic switch	R106	Preheater	INJ23	#6 Injector
S228	Fuel and water separation sensor	INJ11	#1 Injector	Y107	Exhaust brake solenoid valve
G103	Alternator	INJ12	#2 Injector		

Engine ECU peripheral circuits

- (101) Cabin driver side GND
- (102) Cabin passenger side GND
- (M) Engine GND

SITRAK—C7H (Mono+TFT) DIAGRAM (2017—01)—18

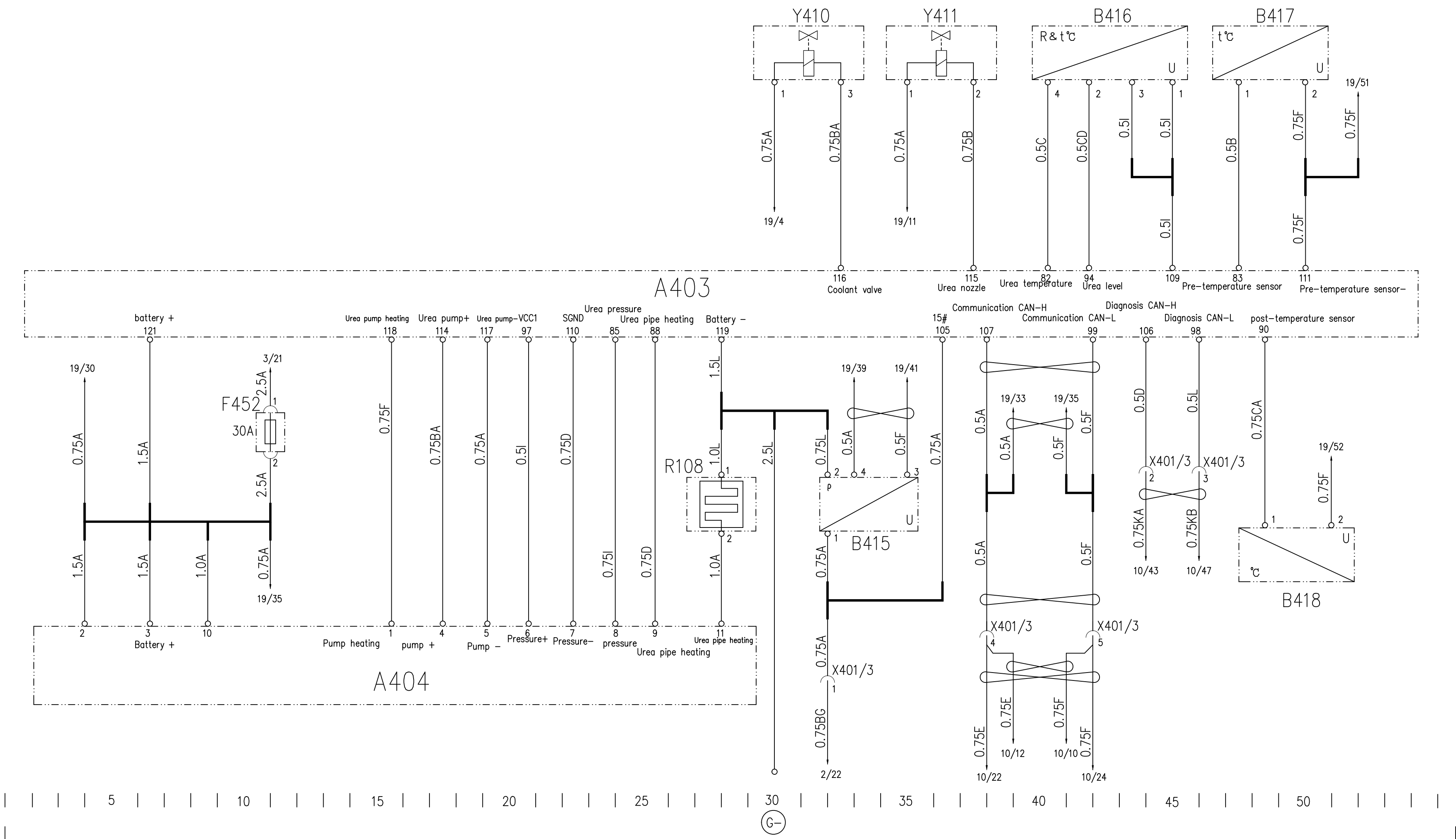


A401	Engine ECU	R106	Preheater	INJ23	#6 injector	F466	Fuse	K465	Urea pump heating relay
F451	Preheater fuse	INJ11	#1 injector	F461	Main relay fuse	F907	ECU—30 power fuse	K466	Spare relay
K451	Preheater relay	INJ12	#2 injector	F462	Urea heating fuse	K461	SCR main relay	F908	Fuse
Y107	Exhaust brake solenoid valve	INJ13	#3 injector	F463	Nozzle heating fuse	K462	Urea pipe heating relay		
B269	Ambient temperature sensor	INJ21	#4 injector	F464	Sunction pipe heating fuse	K463	Urea nozzle heating relay		
A412	Electrical junction box	INJ22	#5 injector	F465	Urea pump heating fuse	K464	Urea suction pipe heating relay		

Engine ECU peripheral circuits

Engine GND

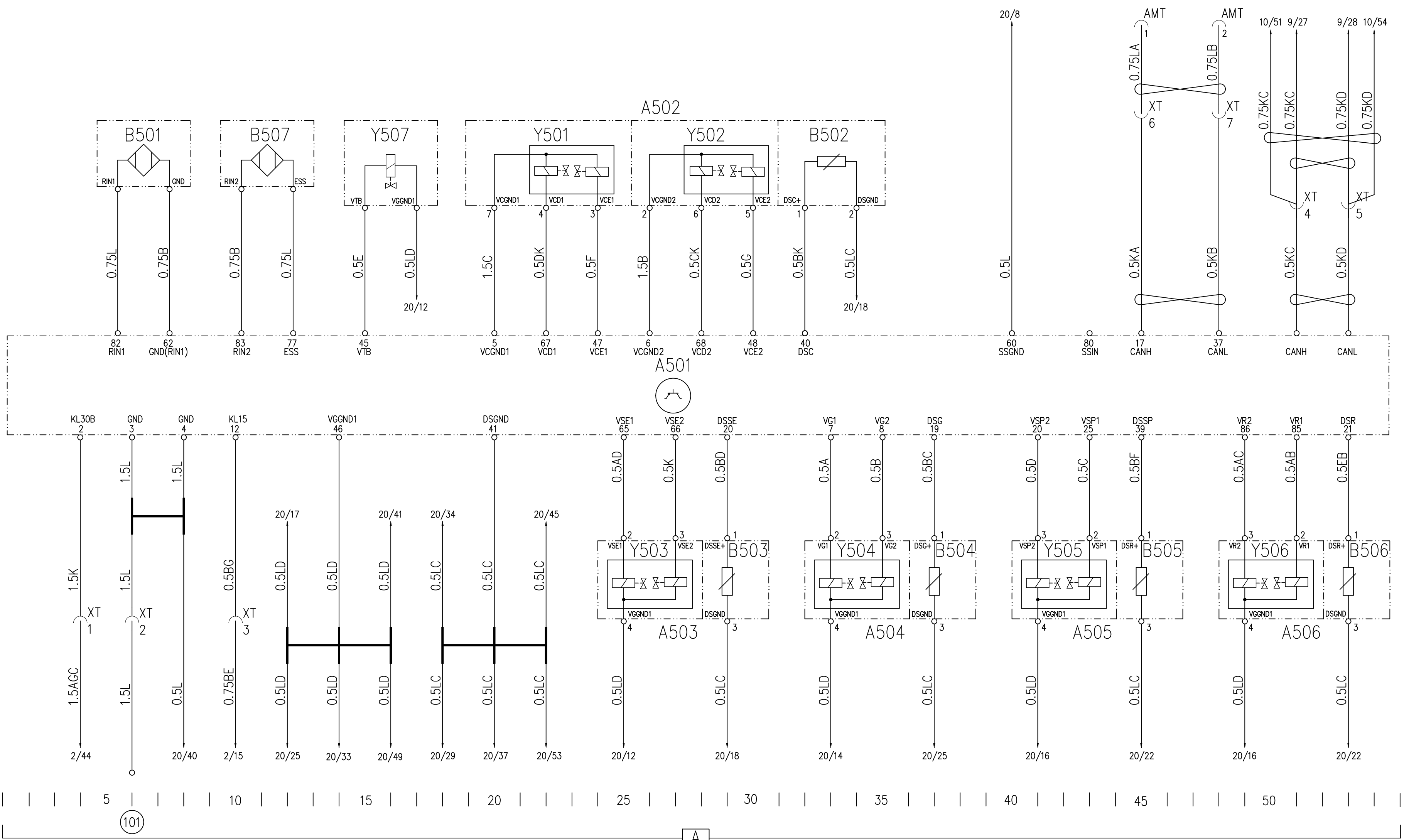
SITRAK-C7H (Mono+TFT) DIAGRAM (2017-01) -19



A403	SCR Controller	F452	SCR fuse
A404	Urea pump box	R108	Urea pipe heater
B415	NOx sensor	Y410	Cooling valve
B416	Urea temperature & level sensor	Y411	Urea nozzle
B417	SCR Pre-temp sensor		
B418	SCR Post-temp sensor		

SINOTRUK SCR ECU peripheral circuits
Battery -

SITRAK-C7H (Mono+TFT) DIAGRAM (2017-01)-20

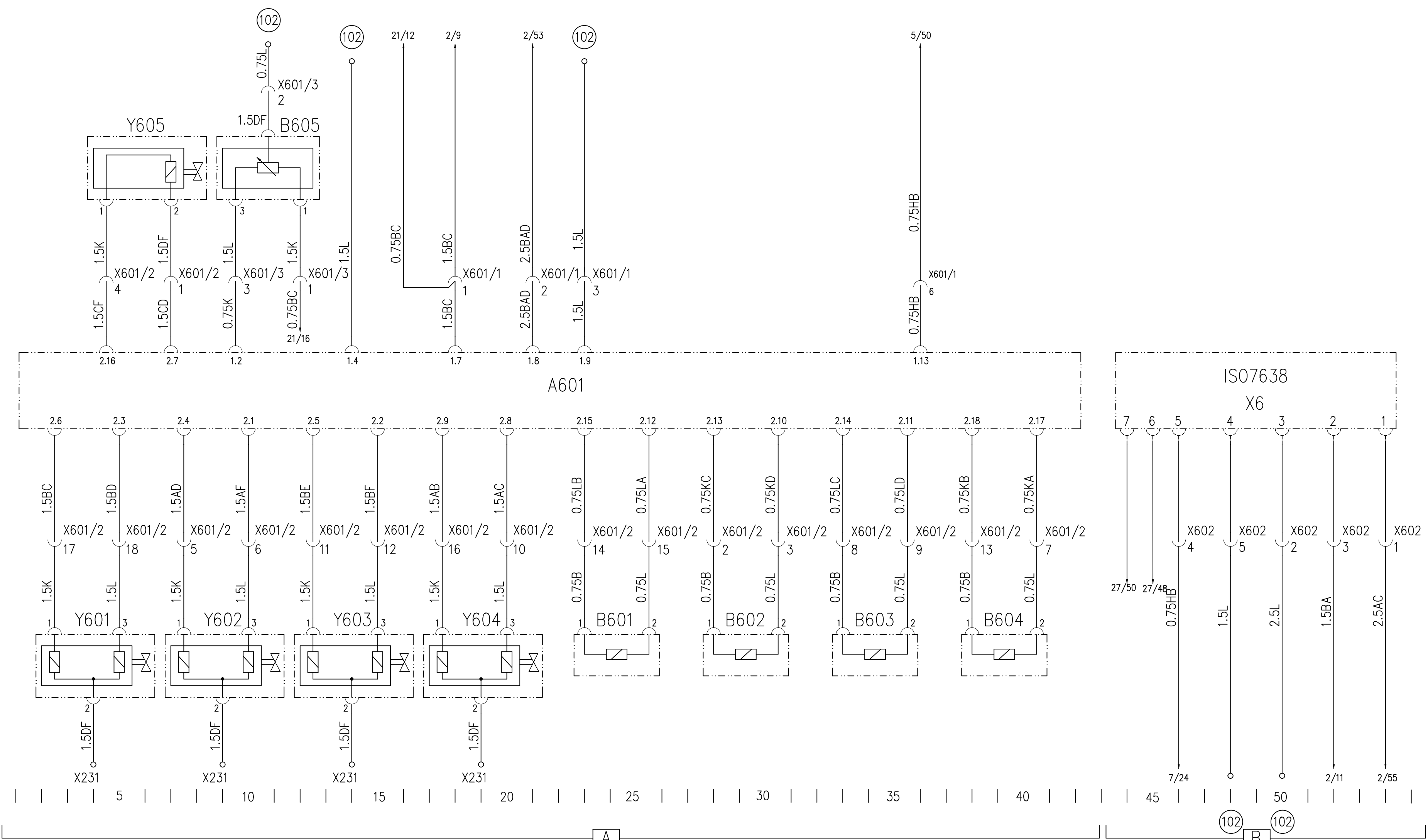


A501	AMT controller	B501	Inputshaft sensor	B507	Output shaft sensor	Y506	Range gear solenoid valve
A502	Clutch actuator	B502	Clutch stroke sensor	Y501	Clutch actuator solenoid valve I	Y507	Transmission brake solenoid valve
A503	X actuator	B503	X actuator sensor	Y502	Clutch actuator solenoid valve II		
A504	Y actuator	B504	Y actuator sensor	Y503	X actuator solenoid valve		
A505	Split cylinder	B505	Split gear sensor	Y504	Y actuator solenoid valve		
A506	Range cylinder	B506	Range gear sensor	Y505	Split gear solenoid valve		

AMT controller peripheral circuit

(101) Cabin inner left GND

SITRAK-C7H (Mono+TFT) DIAGRAM (2017-01)-21



A601	ABS controller	S124	ABS Diagnostic switch	Y604	Right-rear wheel solenoid valve
B601	Left-front wheel sensor	S127	ASR switch	Y605	ASR solenoid valve
B602	Right-front wheel sensor	S133	ABS Off-road switch	X6	ABS7 pins socket
B603	Left-rear wheel sensor	Y601	Left-front wheel solenoid valve		
B604	Right-rear wheel sensor	Y602	Right-front wheel solenoid valve		
B605	EBL sensor	Y603	Left-rear wheel solenoid valve		

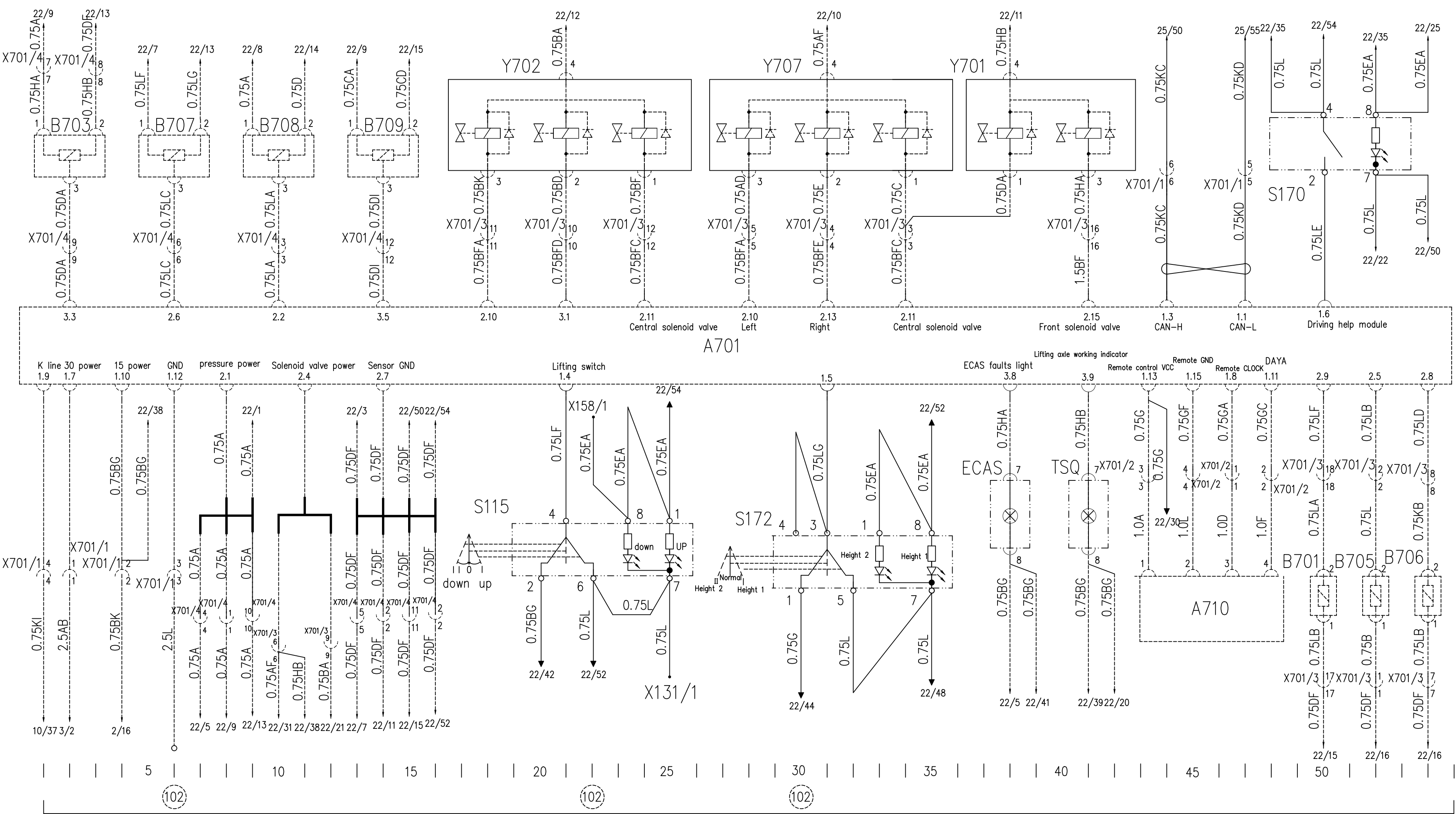
A ABS E-VERSION BASIC 4S/4M WABCO

B Trailer ABS socket

(101) Cabin driver side GND

(102) Cabin passenger side GND

SITRAK-C7H (Mono+TFT) DIAGRAM (2017-01)-22

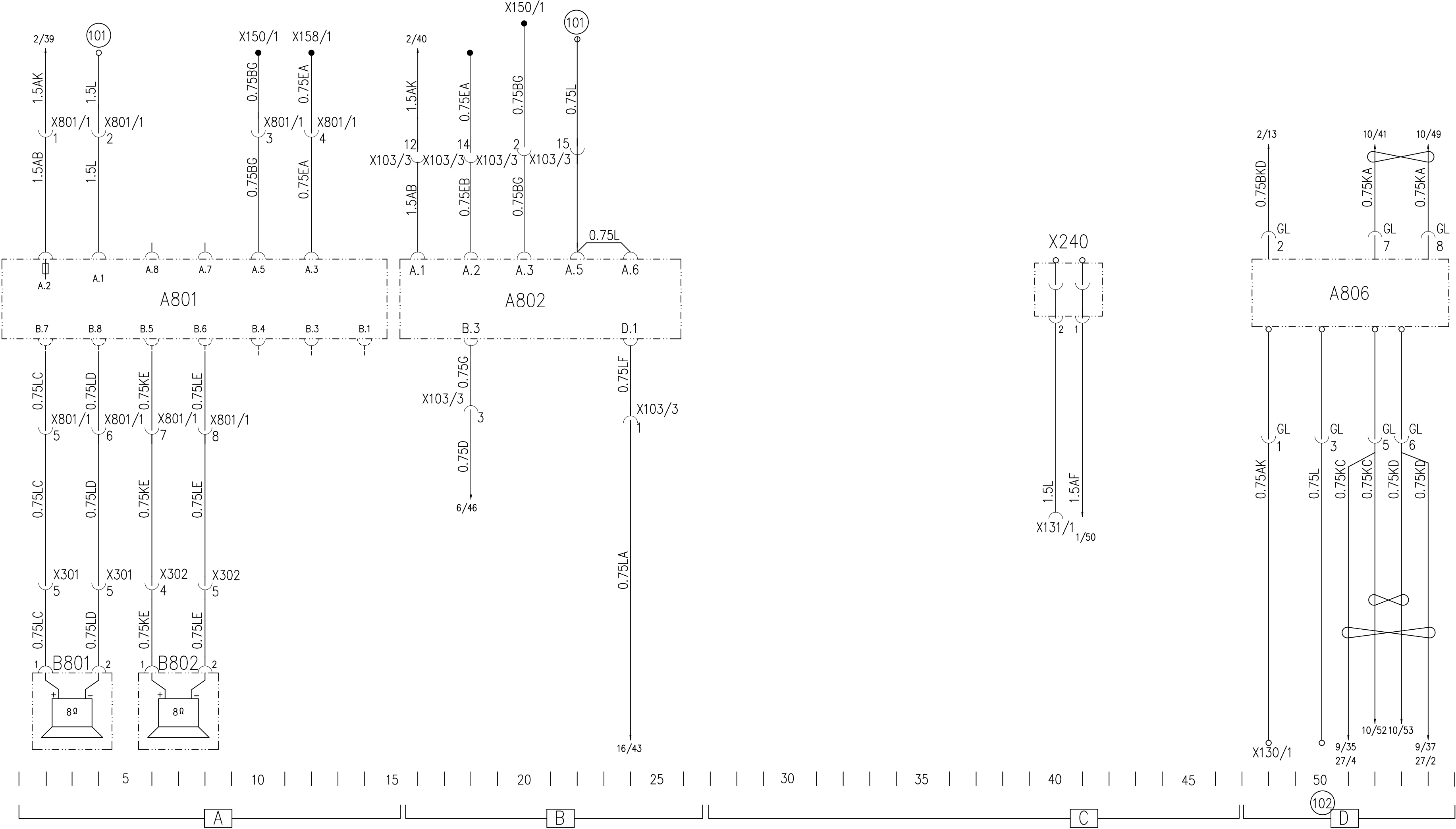


A701	ECAS controller	B701	Front axle height sensor	B709	Lifting axle main airbag pressure sensor
A710	ECAS remote	B703	Lifting axle pressure sensor	Y701	Front axle air bag solenoid valve
S115	Lifting axle up-down switch	B705	Driving axle left height pressure sensor	Y702	Lifting axle air bag solenoid valve
S172	Three height selection switch	B706	Driving axle right height pressure sensor	Y707	Drive axle solenoid valve
S170	Driving help switch	B707	Driving axle left pressure sensor	TSQ	Lifting axle indicator
ECAS	ECAS faults light	B708	Driving axle right pressure sensor		

ECAS BASIC 6×2 DA+LA

102 Cabin passenger side GND

SITRAK—C7H (Mono+ TFT)DIAGRAM (2017—01)—23



A110	Over voltage alarm device	B802	Right door speaker
A801	CD	F813	DC/DC fuse
A802	VDR	X120	12V backup power connector
A803	DC/DC(24V/12V)	X240	24V backup power connector
A806	Vehicle monitoring equipment		
B101	Speed sensor		
B801	Left door speaker		



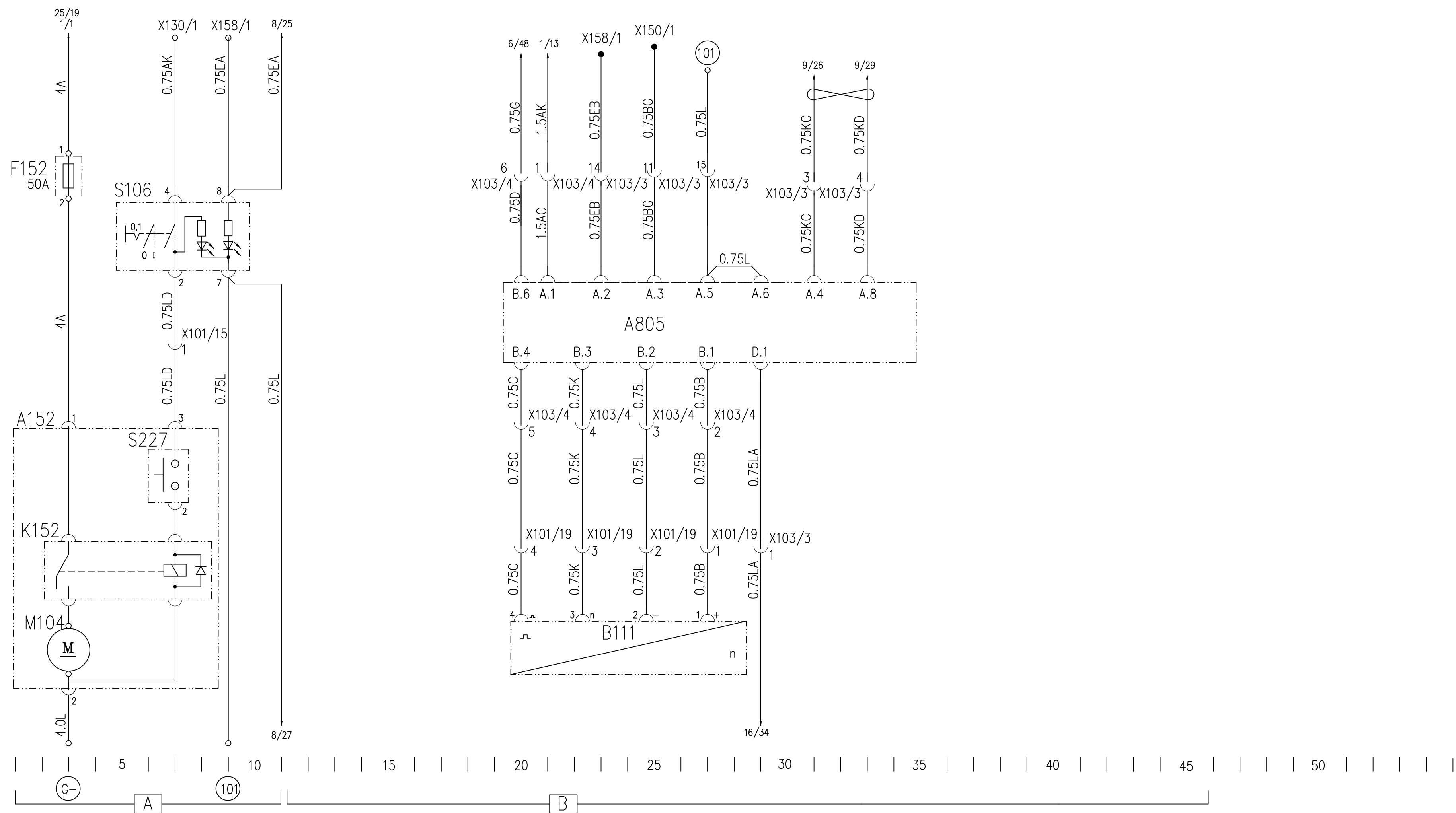
Battery -



Cabin passenger GND

- A Taiwan CD peripheral circuit
- B Taiwan drive recorder peripheral circuits
- C backup power
- D vehicle monitoring equipment

SITRAK-C7H<Mono+TFT>DIAGRAM<2017-01>-24

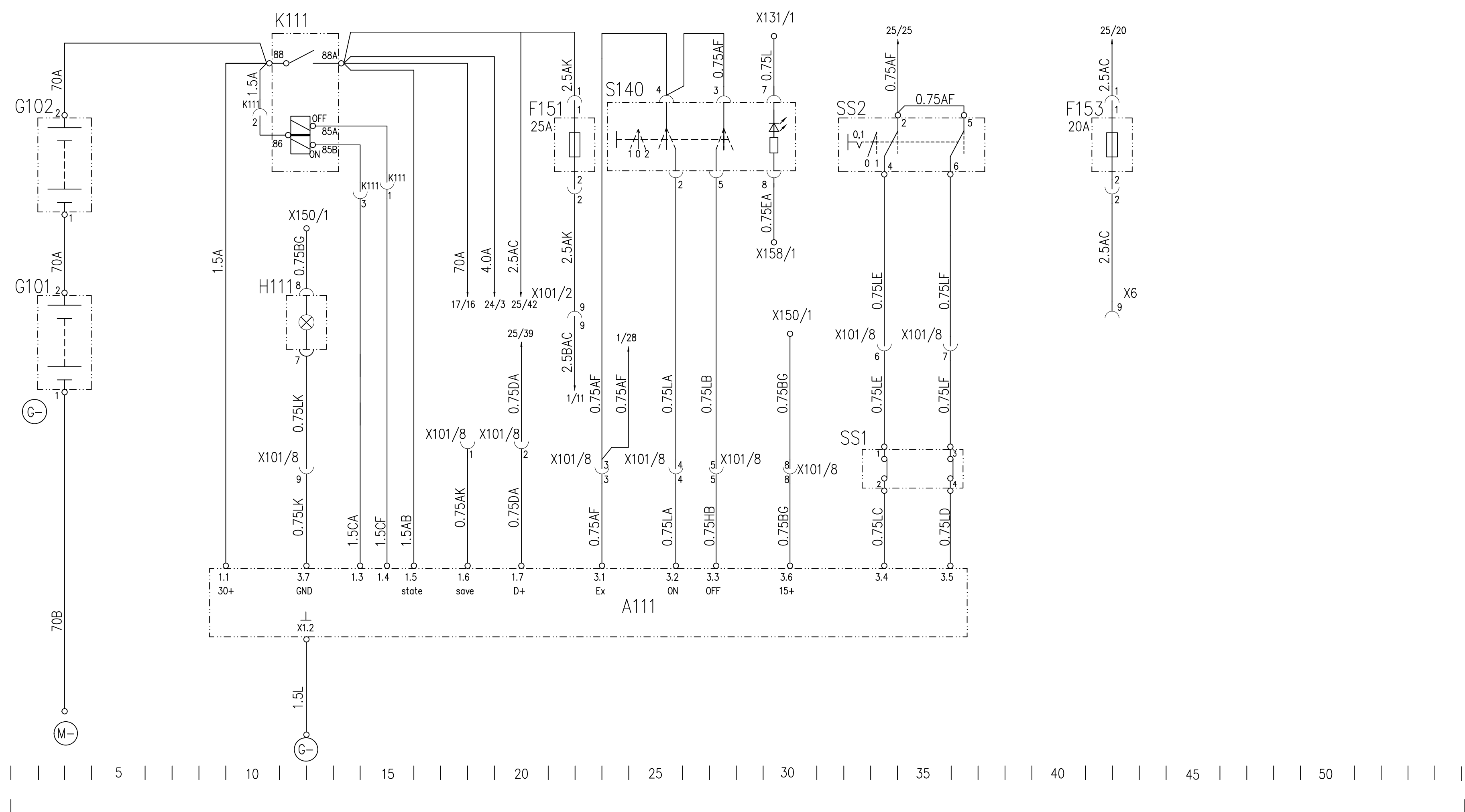


A152	Electric lifting device	S106	Electric lift rocker switch
A805	Tachograph<MTCO 1324>		
B111	KITAS vehicle speed		
F152	Electric lifting fuse		
K152	Electric lifting relay		
M104	Electric lifting motor		
S227	Electric lifting switch		

(G-) Battery -
(101) Driver side GND

A Electric lifting
B Paper tray tachograph<MTCO 1324>

SITRAK-C7H (Mono+TFT) DIAGRAM (2017-01) - 25

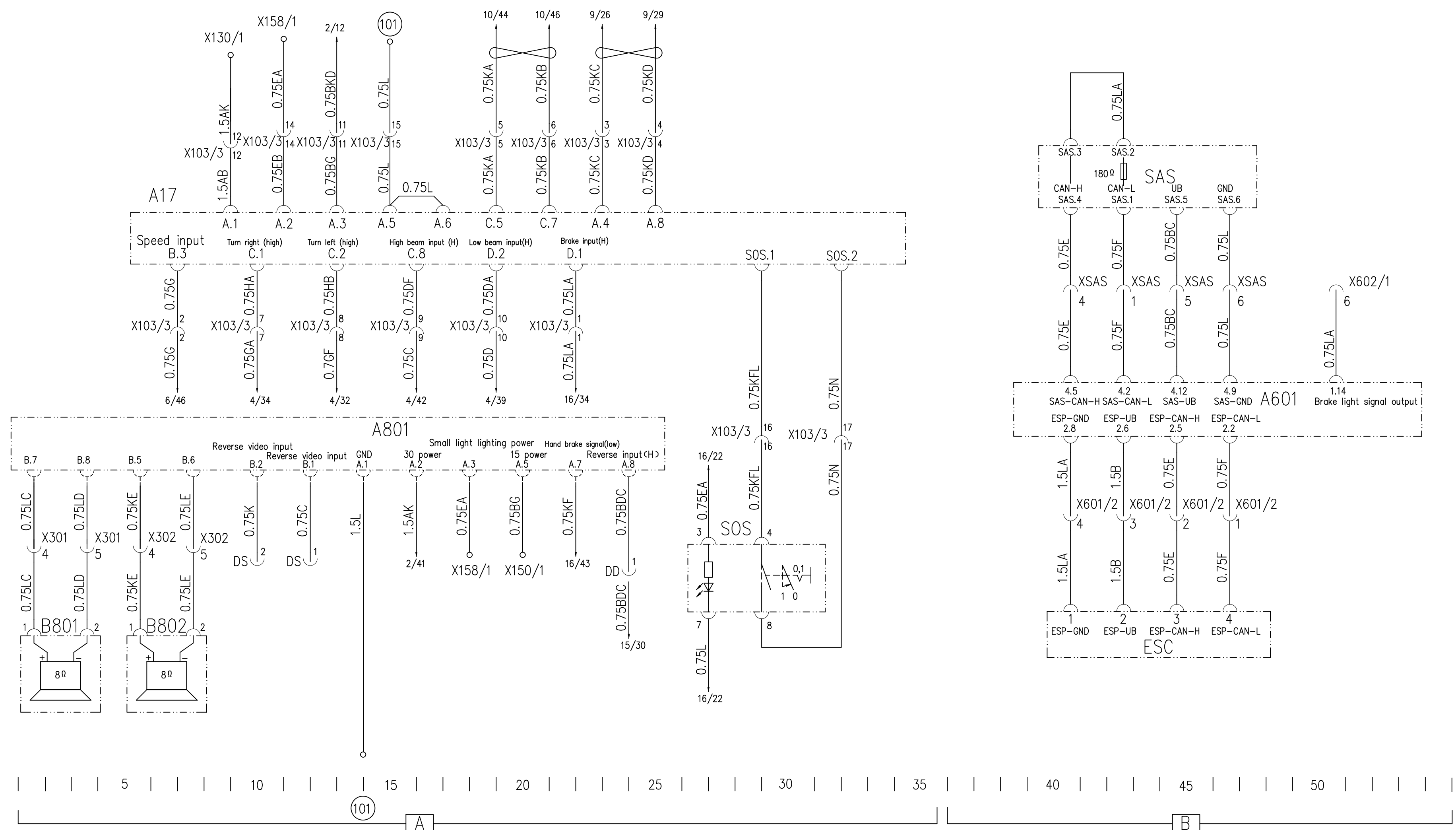


A111	ADR controller	F151	Fuse
K111	Dual coil relay	S160	ADR battery switch
S140	ADR switch	SS2	Cab emergency power switch
G101	Battery I	SS1	Outdoor emergency power switch
G102	Battery II	H111	ADR indicator
		F153	ADR trailer fuse

ADR controller peripheral circuits

 Battery -

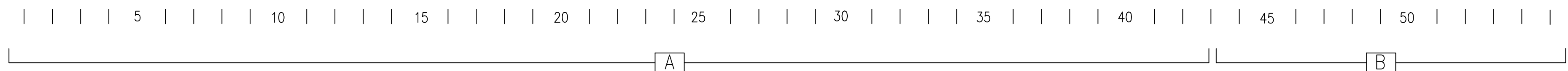
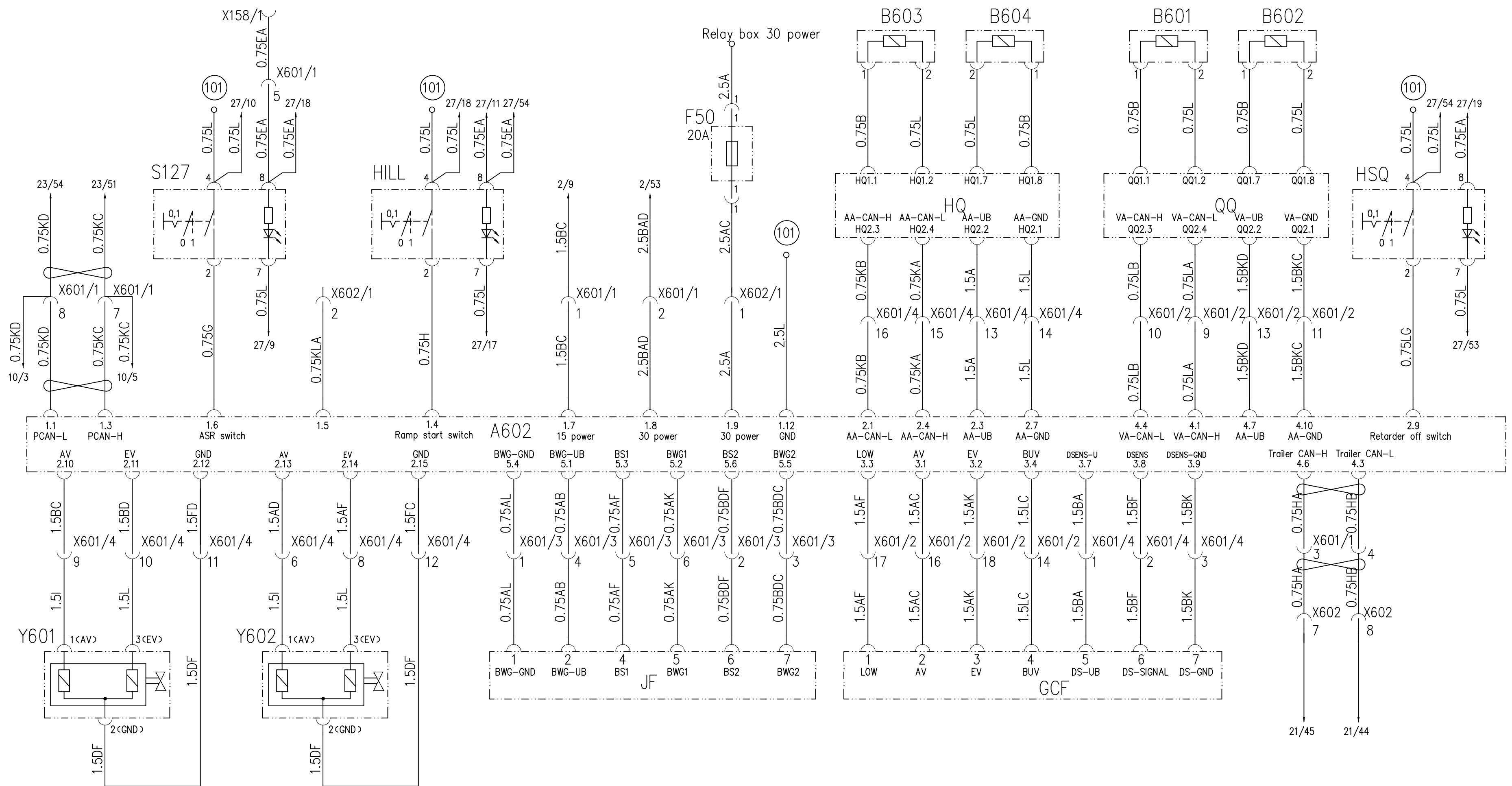
SITRAK-C7H (Mono+TFT) DIAGRAM (2017-01)-26



A110	Over voltage alarm device	B802	Right door speaker
A17	Vehicle monitoring equipment assembly	F813	DC/DC fuse
A806	Vehicle monitoring equipment	X240	24V backup power connector
A801	With MP3 player machine	SOS	Emergency button
B101	Speed sensor	MP5	Touch screen MP5
B801	Left door speaker		

A MP5, Beidou recorder system VDR B EBS system

SITRAK-C7H (Mono+TFT) DIAGRAM (2017-01)-27



A602	EBS controller	S127	ASR switch	HQ	Rear axle module
B601	Front-left wheel sensor	HILL	Ramp start switch	GCF	Trailer valve
B602	Front-right wheel sensor	Y601	Front-left wheel solenoid valve	X6	EBS 7 pins trailer socket
B603	Rear-left wheel sensor	Y602	Front-right wheel solenoid valve		
B604	Rear-right wheel sensor	HSQ	Retarder off switch		
JF	Foot valve	QQ	Front axle module		

A EBS3 WABCO

B Trailer EBS socket