

Document Title: <b>Connectors, overview</b>	Function Group: <b>364</b>	Information Type: <b>Service Information</b>	Date: <b>3/25/2019</b>
Profile: <b>L30B Volvo, L30B Volvo, L30B Volvo</b>			

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## Connectors, overview

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L30B Volvo	Konz	1822201	1823649
L30B Volvo	Konz	1832201	1833779
L30B Volvo	Konz	1852201	1854737

The connector diagram applies to: electronic unit (ECU) from software version 3.13

Pin-side (male)	Pin	Horn ON   OFF	AMP	Description	Switches	Potential when OFF	Potential when ON	Fuse	
<b>X101</b>									
X101	1			Coding pin					
X101	2		OFF	4(8)	Wiper motor, front (Step 1, J)	Relays	open	Battery+	F26
X101	3		OFF	5(10)	Wiper motor, front (Step 2)	Steering column switch	open	Battery+	F27
X101	4	ON		<0,012	Wiper motor, front (park position)				
X101	5			0	Terminal 53a				
X101	6		OFF	<5	Ground				
<b>X102</b>									
X102	1		OFF	<0,01	Hazard light switch S				
X102	2				Coding pin				
X102	3		OFF	<0,07	Hazard flasher control light	Transistor	open collector	Ground	Transistor
X102	4	ON		<0,08	Hazard flasher switch supply				
X102	5		OFF	<0,07	Hazard flasher control light C	Relays	open	Battery+	F02
X102	6		OFF	<0,15	Buzzer switch contact	Transistor	open	Ground	Transistor
X102	7		OFF	<0,07	Buzzer supply	Relays	open	Battery+	F02
X102	8	ON		<0,001	Ignition park position	Ignition	Ground	Battery+	
X102	9	ON		<3	Ignition position "I"	Ignition	Ground	Battery+	
X102	10	ON		<0,09	Ignition start	Ignition	Ground	Battery+	

X102	11		OFF	<3,5	Ignition supply				F25
X102	12			<5	Ground				
<b>X103</b>									
X103	1		OFF	0.5	Back-up light - marker light left	Profet	open collector	Battery+	Profet
X103	2		OFF	1.05	Brake light left	Brake light switch			
X103	3				Coding pin				
X103	4		OFF	0,875	Back-up light left	Relays	open	Battery+	F03
X103	5		OFF	1.05	Direction indicator, rear left	Profet	open collector	Battery+	Profet
X103	6		OFF	0.5	Back-up light - marker light, right	Profet	open collector	Battery+	Profet
X103	7		OFF	1.05	Brake light right	Brake light switch			
X103	8		OFF	0,8	Number plate lighting	Relays	open	Battery+	F03
X103	9		OFF	1.05	Direction indicator, rear right	Profet	open collector	Battery+	Profet
<b>X104</b>									
X104	1		OFF	<6	Heating switch, internal fan	Relays	Ground	Battery+	F21
X104	2	ON		<0,015	C-contact switch	Heater switch	Ground	Battery+	
X104	3	ON			not used				
X104	4				Coding pin				
X104	5	ON		<0,015	Parking brake control switch	Parking brake switch	Battery+	Ground	
X104	6	ON		2.1	Brake light switch				
X104	7	ON		<0,015	Seat contact switch	Seat contact	Battery+	Ground	
X104	8	ON		<0,015	Switch, load fork operation	Switch - loading fork	Battery+	Ground	
X104	9		OFF	2.1	Supply, brake light				
X104	10		OFF	<2,5	Seat heating				F10
X104	11		OFF	<5	Socket				F24
X104	12		OFF	<5	Ground				
<b>X105</b>									
X105	1	ON		<0,001	Inductive sensor, gear "rpm 1"	Transmission sensor			
X105	2	ON		<0,001	Inductive sensor, gear "rpm 2"	Transmission sensor			
X105	3			0.001	frequency input 4 (optional)	Transmission sensor			
X105	4		OFF	<2	Ground				
X105	5				Coding pin				
X105	6		OFF	<2	Ground				
X105	7	ON		<0,06	Sensor fuel tank, sensor	Tank sensor	5.5V	0...5V	
X105	8		OFF	<0,085	Sensor fuel tank, supply	Relays	open	Battery+	F02
X105	9	ON		<0,01	Sensor fuel tank, spare	Tank sensor	Battery+	Ground	

X105	10	ON		<2	Ground				
X105	11	ON		<0,015	Pressure switch pump accumulator brake	Pump accumulator brake	Battery+	Ground	
X105	12	ON		<0,015	Combination sensor, hydraulic oil temperature warning contact switch	Hydraulic oil switch	Battery+	Ground	
X105	13	ON		<0,015	Combination sensor, hydraulic oil temperature sensor				
X105	14	ON		<0,015	Check switch, air filter	Air cleaner	Battery+	Ground	
X105	15		OFF	<2	Ground				
<b>X106</b>									
X106	1		Off	<0,4	IB_DC_IN	Relays	open	Battery+	F02
X106	2		OFF	<1.2	UE2				
X106	3	ON	OFF	0.02	CAN_Bus H				
X106	4	ON	OFF	0.02	CAN_Bus L				
X106	5				Coding pin				
X106	6		OFF	<2	Ground				
<b>X107</b>									
X107	1		OFF	1.3	Solenoid valve, extra pump / hydraulic hammer	Relays	open	Battery+	F06
X107	2		OFF	1.3	Solenoid valve, swivel blocking	Profet	open collector	Battery+	Profet
X107	3		OFF	1.3	Solenoid valve hydraulic circuit no. 4, special hydraulics 2	Relays	open	Battery+	F04
X107	4				Spare fuel after indication				
X107	5		Off	1.3	Solenoid valve special hydraulics 2	Profet	open collector	Battery+	Profet
X107	6		OFF	2.6	Solenoid valve, lower brake valve	Profet	open collector	Battery+	Profet
X107	7				Coding pin				
X107	8		OFF	0,875	Back-up light right	Profet	open collector	Battery+	Profet
X107	9		OFF	<5	Ground				
<b>X108</b>									
X108	1	ON		<0,05	Combination sensor, engine temperature sensor	Engine temperature switch			
X108	2	ON		<0,015	Combination sensor, engine temperature switch	Engine temperature switch	Battery+	Ground	
X108	3	ON		<0,015	Pressure switch, engine oil pressure	Oil pressure switch	Battery+	Ground	
X108	4	ON		<0,125	Alternator D+	Alternator	Battery	Ground	
X108	5	ON		<0,001	Alternator W				
X108	6				not used				
X108	7				not used				

X108	8				Coding pin				
X108	9		OFF	1.3	Solenoid valve, engine shut-off	Relays	Ground	Battery+ (ignition)	F25
X108	10		OFF	<0,0065	Coolant level, supply	Relays	open	Battery+	F02
X108	11	ON		<0,0065	Coolant level, sensor				
X108	12		OFF	<5	Ground				
<b>X109</b>									
X109	1		OFF	3	Horn				
X109	2		OFF	0,45	Marker light, right	Profet	open collector	Battery+	Profet
X109	3		OFF	3.5	Low beam, right	Relays	open	Battery+	F15
X109	4		OFF	3,75	High beam, right	Relays	open	Battery+	F12
X109	5		OFF	1.05	Direction indicator, front right	Profet	open collector	Battery+	Profet
X109	6		OFF	0,45	Marker light, left	Profet	open collector	Battery+	Profet
X109	7		OFF	3.5	Low beam, left	Relays	open	Battery+	F14
X109	8		OFF	3,75	High beam, left	Relays	open	Battery+	F12
x109	9				Coding pin				
X109	10		OFF	1.05	Direction indicator, front left	profet	open collector	Battery+	Profet
X109	11		OFF	7.5	Water pump, sweeper unit	Relays	open	Battery+	F13
X109	12		OFF	1.5	Locking, VOLVO attachment bracket	Profet	open collector	Battery+	Profet
X109	13		OFF	1.05	Indicator, trailer right	Profet	open collector	Battery+	Profet
X109	14		OFF	1.05	Indicator, trailer left	Profet	open collector	Battery+	Profet
x109	15		OFF	<5	Ground				
<b>X110</b>									
X110	1		OFF	<0,09	Voltage feed joystick	Relays	open	Battery+	F02
X110	2	ON		0.015	Joystick pushbutton "Neutral"	Joystick	Ground	Battery+	
X110	3	ON		0.015	Joystick pushbutton "Forward"	Joystick	Ground	Battery+	
X110	4	ON		0.015	Joystick pushbutton "Reverse"	Joystick	Ground	Battery+	
X110	5	ON		0.015	Joystick pushbutton "Differential lock"	Joystick	Ground	Battery+	
X110	6	ON		0.015	Joystick pushbutton "Special hydraulics 1"	Joystick	Ground	Battery+	
X110	7	ON		0.015	Joystick pushbutton "Special hydraulics 2"	Joystick	Ground	Battery+	
X110	8		OFF	0,28	Hold solenoid, load position system	Profet	open collector	Battery+	Profet
X110	9		OFF	0,28	Hold solenoid, "Raise"	Profet	open collector	Battery+	Profet
X110	10				Coding pin				

X110	11		OFF	0,28	Hold solenoid, "float position"	Relays	Ground	Battery+	F01
X110	12		OFF	0,28	Hold solenoid, "special valve"	Relays	Ground	Battery+	F01
X110	13		OFF	0,28	Ground for hold solenoid				
X110	14		OFF	0,28	Ground for hold solenoid				
X110	15		OFF	0,28	Ground for hold solenoid				
<b>X111</b>									
X111	1		OFF	<3	Radio				
X111	2				not used				
X111	3		OFF	(5)	Work lights, front	Relays	open	Battery+	F18
X111	4		OFF	(5)	Work lights, front	Relays	open	Battery+	F18
X111	5		OFF	(5)	Work lights, front	Relays	open	Battery+	F16
X111	6		OFF	(5)	Work lights, front	Relays	open	Battery+	F16
X111	7		OFF	(5)	Working headlights, rear	Relays	open	Battery+	F19
X111	8		OFF	(5)	Working headlights, rear	Relays	open	Battery+	F19
X111	9		OFF	4(8)	Wiper motor, rear "Step 1" J	Relays	open	Battery+	F22
x111	10		OFF	0,875	Back-up light left	Reserve profet			
X111	11				Coding pin				
X111	12	ON		0.01	Wiper motor rear "Park position"	Wiper motor	Battery+	Ground	
X111	13		OFF	8	Rotating beacon	Relays	open	Battery+	F20
X111	14		OFF	1.05	Interior light				
X111	15		OFF	<5	Ground				
<b>X112</b>									
X112	1		OFF	<0,02	Glow time				
X112	2	ON		<0,009	Glow time control light	Glow time control unit	Variant	Variant	
X112	3		OFF	0.12	C-contact, AC system output	Mini profet	open collector	Battery+	Profet
X112	4		OFF	<0,125	Fan relay, oil cooler supply	Relays	open	Battery+	F02
X112	5	ON		<0,125	Fan relay, oil cooler switch	Transistor	open collector	Ground	Transistor
X112	6		OFF	<0,125	External X-relay	Relays	open	Battery+	F02
X112	7	ON			reserved				
X112	8		OFF	3(5)	Washer pump, front				F05
X112	9		OFF	3(5)	Washer pump, rear				F09
X112	10		OFF	<0,125	Start relay				
X112	11		OFF	<5	Ground				
X112	12				Coding pin				
<b>X113</b>									
X113	1		OFF	1.3	Solenoid valve, boom suspension 1, load valve	Profet	open collector	Battery+	Profet
X113	2		OFF	1.3	Solenoid valve, boom suspension 2, floor valve	Profet	open collector	Battery+	Profet

X113	3		OFF	1.3	Solenoid valve, boom suspension 3, rod compensation valve	Profet	open collector	Battery+	Profet
X113	4		OFF	<0,03	Supply, inductive sensor, load position system	Relays	open	Battery+	F11
X113	5	ON		0.015	Inductive sensor, load position system	Inductive switch	Ground	Battery+	
X113	6		OFF	<0.1	Ground				
X113	7		OFF	<0,03	Supply, inductive sensor lift end switch	Relays	open	Battery+	F11
X113	8	ON		0.015	Inductive sensor, lift end switch	Inductive switch	Ground	Battery+	
X113	9		OFF	<0.1	Ground				
X113	10		OFF	<0,03	Supply inductive sensor, boom suspension	Relays	open	Battery+	F11
X113	11	ON		0.015	Inductive sensor, boom suspension	Inductive switch	Ground	Battery+	
X113	12		OFF	0.1	Ground				
X113	13				Coding pin				
X113	14	ON		0.015	Switch, load valve - boom suspension (5 bar)	Loading valve switch	Ground	Battery+	
X113	15				reserved				
<b>X114</b>									
X114	1	ON		0.015	Pressure switch, control pressure (8.5 bar)	Pressure switch	Battery+	Ground	
X114	2		OFF	1.3	Solenoid valve hydraulic pump, forward	Profet	open collector	Battery+	Profet
X114	3		OFF	1.3	Solenoid valve hydraulic pump, reverse	Profet	open collector	Battery+	Profet
X114	4		OFF	1.3	Solenoid valve, direction valve	Profet	open collector	Battery+	Profet
X114	5		OFF	1.3	Solenoid valve hydraulic motor 107 / 140	Profet	open collector	Battery+	Profet
X114	6		OFF	1.3	Solenoid valve hydraulic motor 80	Profet	open collector	Battery+	Profet
X114	7		OFF	1.3	Solenoid valve, differential lock	Profet	open collector	Battery+	Profet
X114	8	ON		0.015	Reduced pressure switch, hydraulic oil common filter				
X114	9		OFF	1.3	Solenoid valve, hydraulic control "OFF"	Profet	open collector	Battery+	Profet
X114	10		OFF	1.3	Solenoid valve, emission reduction	Profet	open collector	Battery+	Profet
X114	11		OFF	0.05	Differential lock, check supply	Relays	open	Battery+	F02
X114	12	ON		0.015	Differential lock, check switch	Differential lock	Ground	Battery+	
X114	13				not used				
X114	14				Coding pin				

X114	15		OFF	<5	Ground				
<b>X115</b>									
X115	1		OFF	<8	Steering column switch right, supply 1				
X115	2	ON		3	Steering column switch right, horn				
X115	3	ON		<4	Steering column switch right, washer pump front	Steering column switch right	Ground	Battery+	F05
X115	4	ON		0.015	Steering column switch right, interval	Steering column switch right	Ground	Battery+	
X115	5	ON		0.015	Steering column switch right, stage I	Steering column switch right	Ground	Battery+	
X115	6	ON		5(10)	Steering column switch right, stage II	Steering column switch right	Ground	Battery+	
X115	7		OFF	<15	Steering column switch right, supply 2				
X115	8	ON		7	Steering column switch right, low beam	Steering column switch right	Ground	Battery+	
X115	9	ON		7.5	Steering column switch right, high beam	Steering column switch right	Ground	Battery+	
X115	10		OFF	<10	Steering column switch right, supply 2a				
X115	11		OFF	<0,03	Steering column switch right, supply 3a	Relays	open	Battery+	F02
X115	12	ON		0.015	Steering column switch right, direction indicator right	Steering column switch right	Ground	Battery+	
X115	13	ON		0.015	Steering column switch right, direction indicator left	Steering column switch right	Ground	Battery+	
X115	14				not used				
X115	15				Coding pin				
<b>X116</b>									
X116	1		OFF	<0.1	Steering column switch left, supply	Relays	open	Battery+	F02
X116	2	ON		0.015	Steering column switch left, drive stage 1	Steering column switch left	Ground	Battery+	
X116	3	ON		0.015	Steering column switch left, drive stage 2	Steering column switch left	Ground	Battery+	
X116	4	ON		0.015	Steering column switch left, neutral	Steering column switch left	Ground	Battery+	
X116	5	ON		0.015	Steering column switch	Steering	Ground	Battery+	

					left, Forward	column switch left		
X116	6	ON		0.015	Steering column switch left, Reverse	Steering column switch left	Ground	Battery+