

JCB T65D Helpfile

USER MANUAL

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1. Home Page	13
2. Machine Details	15
2.1 CAN Layout	16
2.2 Harness Layout	17
2.3 Battery Lead Layout	18
3. Machine Components	19
3.1 E-Stop	21
3.2 Jib Platform/Rotate	22
3.3 Base Enable Switch	23
3.4 Platform Enable Switch	25
3.5 Slew	27
3.6 Crush Protection	30
3.7 Forward/Reverse Switch	32
3.8 High torque switch	34
3.9 Electric pump	36
3.10 Override	38
3.11 Slew Acknowledge LED	40
3.12 Foot Pedal	41
3.13 Potentiometer	43
3.14 Drive	45
3.15 Platform Level	46
3.16 Main Telescopic Boom	49
3.17 Platform Rotate	51
3.18 Jib	54
3.19 Main Boom Limit Switch	56
3.20 10V Input System	58
3.21 Steer System	60
3.22 Buzzer	61
3.23 Horn	62
3.24 Hydraulic Generator	64
3.25 Oscilating Axle	66
3.26 Fuel Sensor	67
3.27 Rear Brake	69

3.28	VSS1	71
3.29	VSS2	73
3.30	VSS3	74
3.31	Alternator	76
3.32	CAN	78
3.33	RC Config	80
3.34	High Engine Speed Switch	81
4.	System Level Functions	85
4.1	Ignition	86
4.2	Main Control Valve	86
4.3	Transmission Pump Control Valve	87
4.4	Platform Control Valve	88
4.5	Beacon	88
4.6	White Noise Alarm	89
4.7	Base Control Panel	91
4.8	Platform Control Panel	92
4.9	Potentiometer	93
4.10	Base/Platform Selection switch	94
5.	Solenoid Locations	97
5.1	Solneoid - Chassis	98
5.2	Solenoid -Turntable	98
6.	Sensors	101
6.1	Coolant Level Sensor	102
6.2	Boom Sensor	103
6.3	Limit Switch	105
6.4	Tilt Sensor	105
6.5	Weight Sensor	107
6.6	Oscillating axle Pressure Sensor	108
6.7	Telescopic Wire sensor	109
7.	Machine Calibration	111
7.1	Tilt Sensor Caliberation	112
7.2	Load Cell Calibration	120
7.3	Main Boom Angle Sensor Calibration	124

7.4	Boom Length Calibration	132
7.5	Emergency Override	136
8.	Diagnostic Fault Tables	139
8.1	General Sensor Fault Table	140
9.	Machine Fault Codes	141
9.1	Fault Codes	142
9.1.1	B1006-17	142
9.1.2	B1007-92	144
9.1.3	B1008-16	146
9.1.4	B1009-16	147
9.1.5	B1010-13	149
9.1.6	B1019-17	152
9.1.7	B1020-17	152
9.1.8	B1021-16	153
9.1.9	B1022-13	154
9.1.10	B1023-16	155
9.1.11	B1024-92	156
9.1.12	B1025-13	157
9.1.13	B1026-17	158
9.1.14	B1029-17	158
9.1.15	B1030-17	159
9.1.16	B1031-16	160
9.1.17	B1032-13	161
9.1.18	B1033-17	162
9.1.19	B1034-16	163
9.1.20	B1035-13	164
9.1.21	B1043-17	165
9.1.22	B1044-16	167
9.1.23	B1045-13	168
9.1.24	B1046-17	169
9.1.25	B1047-16	170
9.1.26	B1048-17	171
9.1.27	B1049-16	172
9.1.28	B1050-17	173
9.1.29	B1051-16	174
9.1.30	B1052-24	176
9.1.31	B1053-17	177
9.1.32	B1054-16	178
9.1.33	B1055-17	179

9.1.34	B1056-16	180
9.1.35	B1058-17	182
9.1.36	B1059-16	183
9.1.37	B1060-13	184
9.1.38	B1061-17	185
9.1.39	B1062-16	187
9.1.40	B1063-92	188
9.1.41	B1064-17	189
9.1.42	B1065-16	190
9.1.43	B1066-24	191
9.1.44	B1067-17	191
9.1.45	B1069-17	192
9.1.46	B1070-16	193
9.1.47	B1071-17	194
9.1.48	B1072-17	196
9.1.49	B1073-92	197
9.1.50	B1074-16	198
9.1.51	B1075-16	200
9.1.52	B1076-17	201
9.1.53	B1077-16	202
9.1.54	B1078-13	203
9.1.55	B1079-17	205
9.1.56	B1080-17	206
9.1.57	B1081-16	207
9.1.58	B1082-13	209
9.1.59	B1083-17	210
9.1.60	B1101-17	211
9.1.61	B1102-17	213
9.1.62	B1103-92	214
9.1.63	B1104-16	215
9.1.64	B1105-16	216
9.1.65	B1106-17	218
9.1.66	B1107-17	219
9.1.67	B1108-92	220
9.1.68	B1109-16	221
9.1.69	B1110-16	223
9.1.70	B1111-17	224
9.1.71	B1112-17	225
9.1.72	B1113-92	226
9.1.73	B1114-16	227
9.1.74	B1115-16	229

9.1.75	B1116-17	230
9.1.76	B1117-17	231
9.1.77	B1118-92	232
9.1.78	B1119-16	233
9.1.79	B1120-16	234
9.1.80	B1121-17	236
9.1.81	B1122-17	237
9.1.82	B1123-92	238
9.1.83	B1124-16	239
9.1.84	B1125-16	241
9.1.85	B1126-17	242
9.1.86	B1127-17	243
9.1.87	B1128-16	245
9.1.88	B1129-13	246
9.1.89	B1130-16	247
9.1.90	B1131-2F	248
9.1.91	B1144-17	249
9.1.92	B1145-16	250
9.1.93	B1146-17	251
9.1.94	B1147-16	252
9.1.95	B1148-17	253
9.1.96	B1149-16	254
9.1.97	B1150-17	255
9.1.98	B1151-16	256
9.1.99	B1177-16	257
9.1.100	B1178-13	258
9.1.101	B1179-13	258
9.1.102	B1180-16	259
9.1.103	B1181-16	260
9.1.104	B1182-13	261
9.1.105	B1183-16	262
9.1.106	B1184-13	263
9.1.107	B1190-16	263
9.1.108	B1191-17	264
9.1.109	B1198-16	265
9.1.110	B1199-17	266
9.1.111	B1206-17	267
9.1.112	B1207-16	268
9.1.113	B1208-24	269
9.1.114	B1215-17	270
9.1.115	B1216-16	270

9.1.116	B1217-24	271
9.1.117	B1221-17	272
9.1.118	B1222-16	273
9.1.119	B1223-17	274
9.1.120	B1224-16	274
9.1.121	B1225-2F	275
9.1.122	B1227-17	276
9.1.123	B1228-16	277
9.1.124	B1232-17	278
9.1.125	B1233-16	279
9.1.126	B1235-17	280
9.1.127	B1239-17	281
9.1.128	B1240-16	282
9.1.129	B1241-24	283
9.1.130	B1242-17	284
9.1.131	B1243-17	286
9.1.132	B1244-92	287
9.1.133	B1245-16	288
9.1.134	B1246-16	290
9.1.135	B1252-17	291
9.1.136	B1253-17	292
9.1.137	B1254-92	293
9.1.138	B1255-16	294
9.1.139	B1256-16	296
9.1.140	B1257-17	297
9.1.141	B1258-17	298
9.1.142	B1259-92	300
9.1.143	B1260-16	301
9.1.144	B1261-16	302
9.1.145	B1262-17	303
9.1.146	B1263-17	304
9.1.147	B1264-92	306
9.1.148	B1265-16	307
9.1.149	B1266-16	308
9.1.150	B1267-17	309
9.1.151	B1268-16	310
9.1.152	B1269-16	311
9.1.153	B1270-17	311
9.1.154	B1273-17	312
9.1.155	B1274-16	313
9.1.156	B1275-24	314

9.1.157	B1276-24	315
9.1.158	B1277-24	316
9.1.159	B1278-17	317
9.1.160	B1279-16	318
9.1.161	B1281-16	319
9.1.162	B1283-16	320
9.1.163	B1284-16	321
9.1.164	B1285-16	322
9.1.165	B1287-2F	323
9.1.166	U1293-87	325
9.1.167	U1294-56	326
9.1.168	U1295-41	327
9.1.169	U1296-87	328
9.1.170	U1297-56	329
9.1.171	U1298-41	331
9.1.172	U1299-87	332
9.1.173	B1300-2F	333
9.1.174	B1301-2F	335
9.1.175	B1302-2F	336
9.1.176	B1303-2F	337
9.1.177	B1304-24	338
9.1.178	B1305-24	338
9.1.179	B1306-24	339
9.1.180	B1307-24	340
9.1.181	B1308-24	340
9.1.182	B1309-24	341
9.1.183	B1310-24	342
9.1.184	B1311-24	343
9.1.185	B1312-24	343
9.1.186	B1313-24	344
9.1.187	B1314-24	345
9.1.188	B1315-24	345
9.1.189	B1316-24	346
9.1.190	B1317-24	347
9.1.191	B1318-24	347
9.1.192	B1319-24	348
9.1.193	B1320-24	349
9.1.194	B1321-24	349
9.1.195	U1323-56	350
9.1.196	U1324-56	351
9.1.197	U1325-56	353

9.1.198	U1326-41	354
9.1.199	U1327-41	355
9.1.200	U1328-41	356
9.1.201	B1329-13	357
9.1.202	B1330-16	358
9.1.203	B1331-13	359
9.1.204	B1335-17	361
9.1.205	B1336-16	362
9.1.206	B1337-13	363
9.1.207	B1338-17	364
9.1.208	B1339-16	366
9.1.209	B1340-13	367
9.1.210	B1347-17	368
9.1.211	B1348-16	369
9.1.212	B1349-13	371
9.1.213	B1353-16	372
9.1.214	B1354-13	373
9.1.215	B1355-16	374
9.1.216	B1356-13	375
9.1.217	B1357-16	376
9.1.218	B1358-13	377
9.1.219	B1360-0	378
9.1.220	B1362-13	379
9.1.221	B1363-16	380
9.1.222	B1365-17	381
9.1.223	B1366-16	382
9.1.224	B1367-17	383
9.1.225	B1368-16	384
9.1.226	B1369-87	385
9.1.227	B1370-2F	385
9.1.228	B1371-17	386
9.1.229	B1373-87	387
9.1.230	B1374-2F	388
9.1.231	B1375-17	390
9.1.232	B1376-87	391
9.1.233	B1377-2F	393
9.1.234	B1378-17	394
9.1.235	B1379-13	395
9.1.236	B1381-17	396
9.1.237	B1382-16	397
9.1.238	B1383-13	398

9.1.239	B1384-17	399
9.1.240	B1385-16	401
9.1.241	B1386-13	402
9.1.242	B1387-17	404
9.1.243	B1388-16	405
9.1.244	B1389-13	407
9.1.245	B1390-17	408
9.1.246	B1391-16	409
9.1.247	B1392-13	411
9.1.248	B1393-17	412
9.1.249	B1394-16	413
9.1.250	B1395-13	414
9.1.251	B1396-17	416
9.1.252	B1397-16	417
9.1.253	B1398-13	418
9.1.254	B1399-17	419
9.1.255	B1400-16	421
9.1.256	B1401-13	422
9.1.257	B1402-17	423
9.1.258	B1403-16	424
9.1.259	B1404-13	425
9.1.260	B1405-13	427
9.1.261	B1407-17	427
9.1.262	B1409-17	428
9.1.263	B1411-17	430
9.1.264	B1412-16	431
9.1.265	B1413-13	432
9.1.266	B1414-17	433
9.1.267	B1415-16	434
9.1.268	B1416-13	435
9.1.269	B1417-13	436
9.1.270	B1418-13	438
9.1.271	B1419-13	439
9.1.272	B1420-13	440
9.1.273	B1421-2F	441
9.1.274	B1212-17	442
9.1.275	B1213-16	443
9.1.276	B1214-24	444
9.1.277	B1209-17	445
9.1.278	B1210-16	446
9.1.279	B1211-24	447

Index	449
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Home Page

1 Home Page

Please see :

- Support Files
- Components
- Machine ECU Fault Codes
- Liveline Fault Codes
- Engine Fault Codes

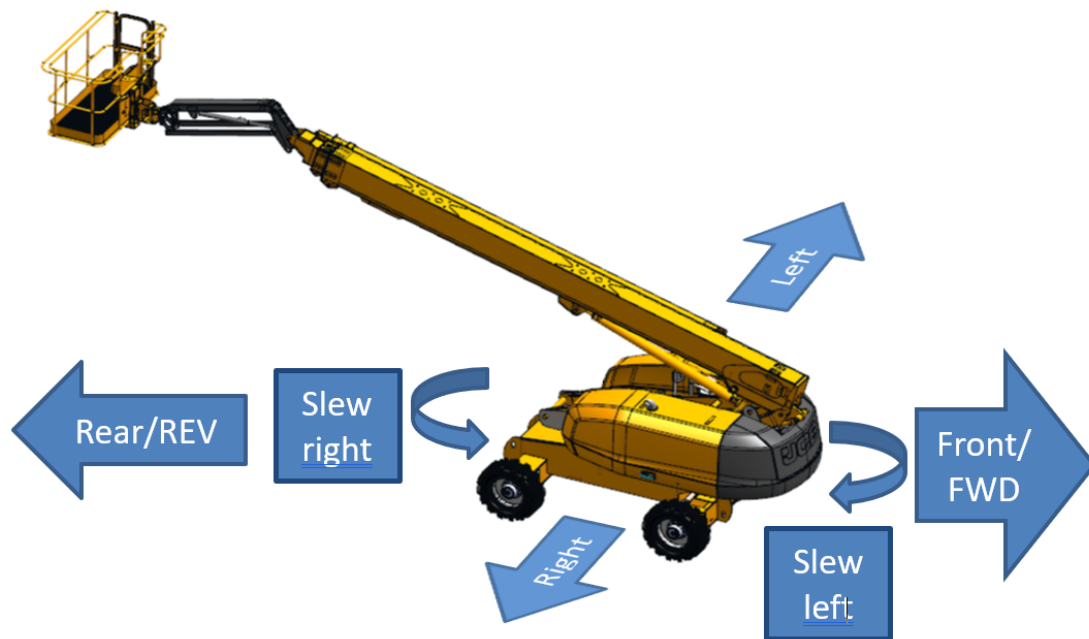
Or search through the help files using your fault code component keyword(s):

T65D Telescopic Boom



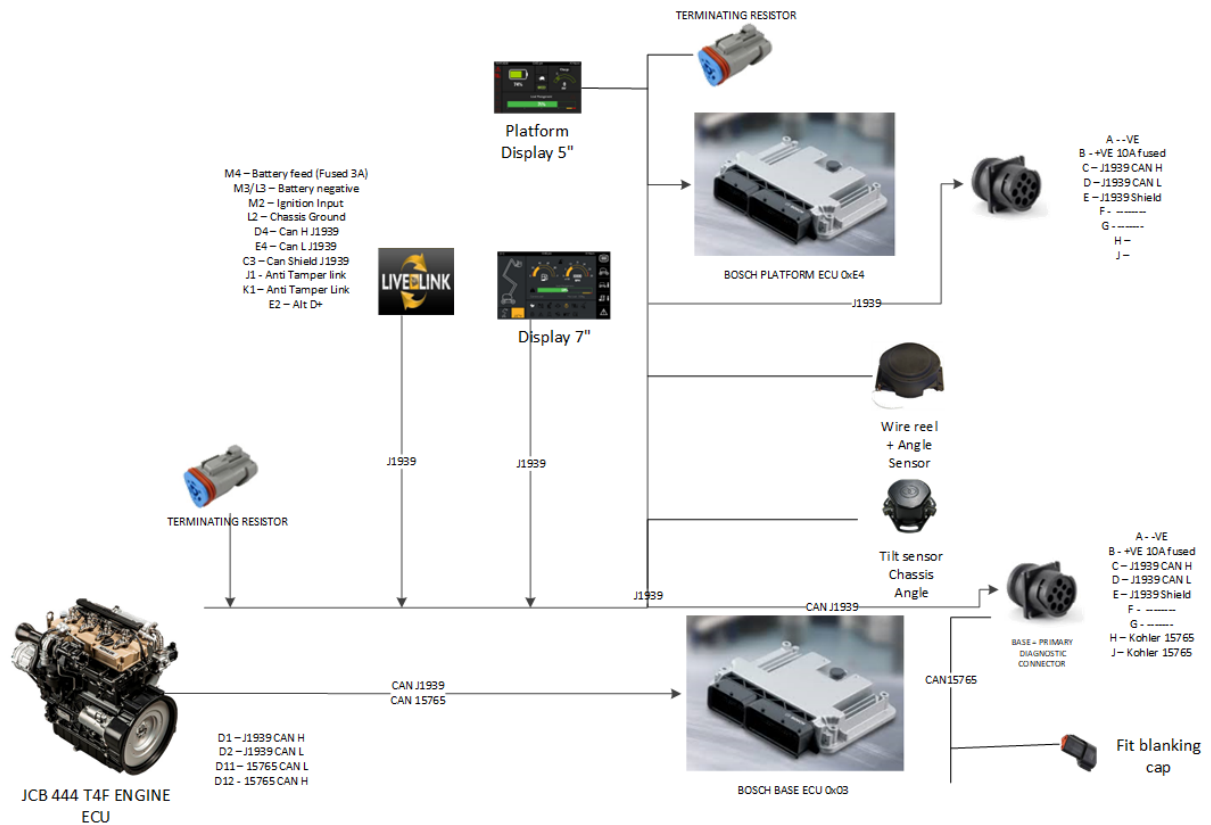
Machine Details

2 Machine Details

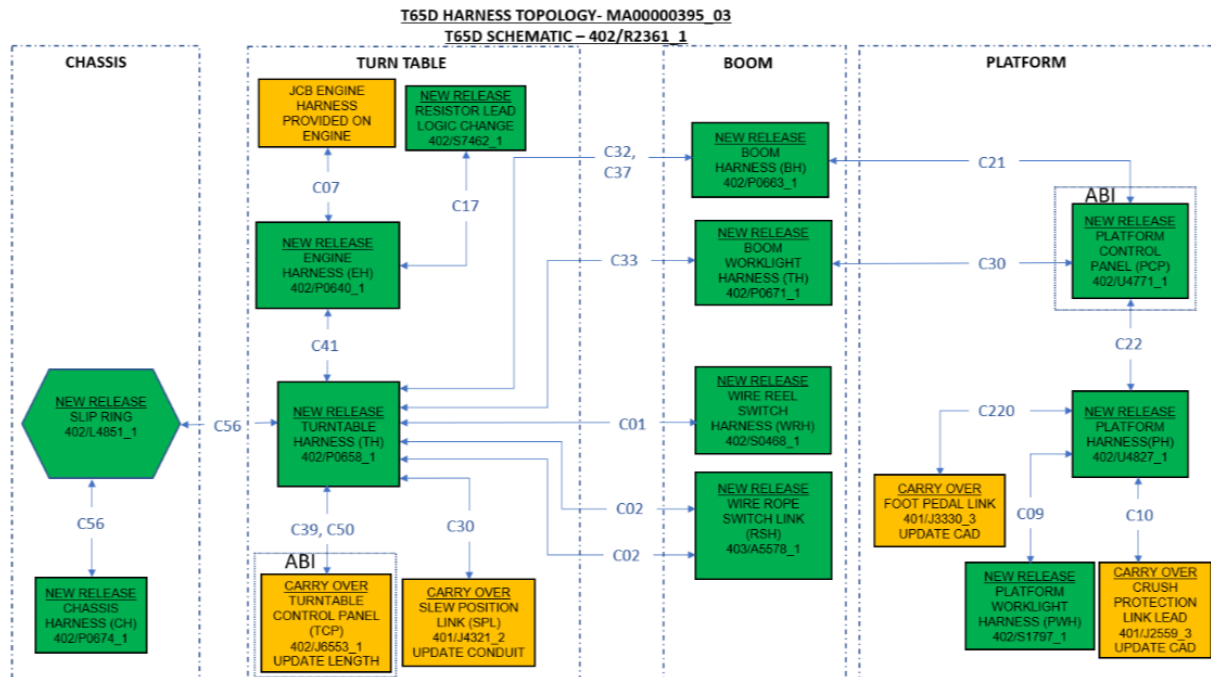


Directions taken with respect to an operator in the platform

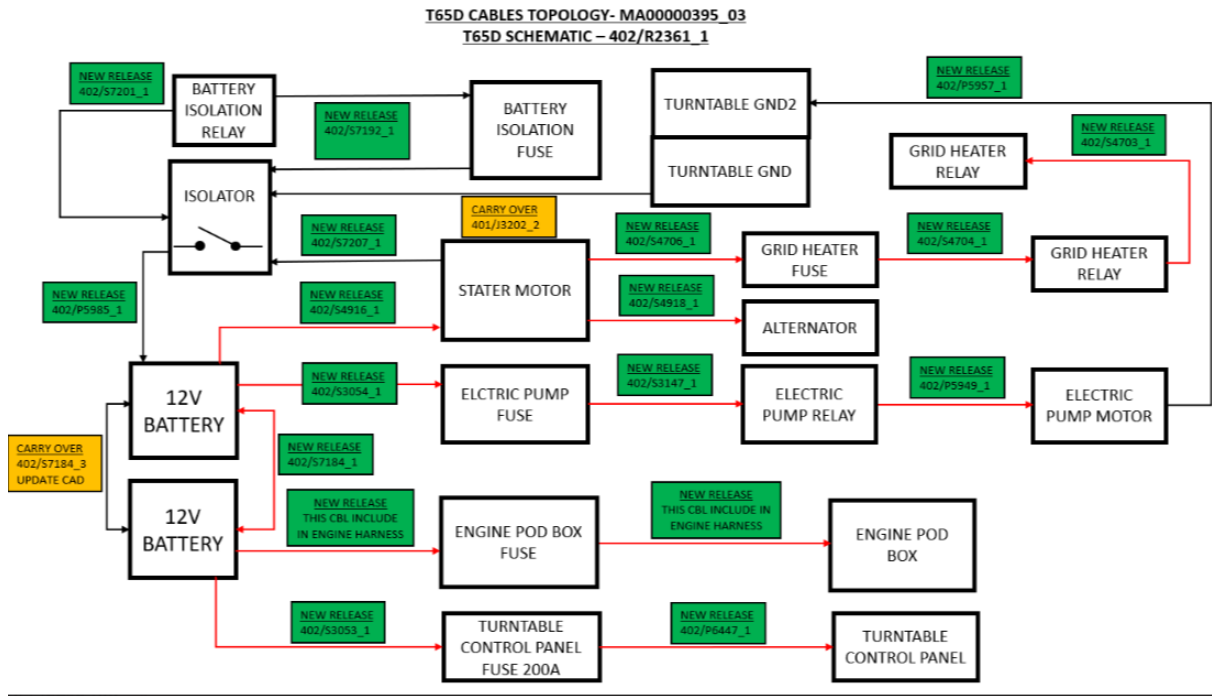
2.1 CAN Layout



2.2 Harness Layout



2.3 Battery Lead Layout



Machine Components

3 Machine Components

This Section contains list of machine components

- E-Stop
- Base Enable Switch
- Platform Enable Switch
- Base Enable Switch & Platform Enable Switch
- Slew
- Crush Protection
- Forward Or Reverse Proportional Solenoid Valve
- Oscillating Axle
- High Torque Switch
- Front Brake
- Engine
- Foot Pedal
- Electric Pump
- Override
- Slew Ack Led
- Potentiometer
- Drive
- Platform Level
- Main Boom
- Main Telescopic Boom
- Platform Rotate
- Jib
- Main Boom Lower Limit Switch
- 10V Input System
- Steer
- Main Boom
- Buzzer
- Beacon
- Horn
- White Noise
- Fault Led
- Hydraulic Generator
- Load Sensor
- Oscillating Axle
- Fuel Sensor
- Base Startlock Stuck
- Platform Startlock Stuck
- Rear Brake
- Vss2
- Vss1
- Vss2

Vss3
CAN
CAN
Alternator
Rc Config
Jib/Platform Rotate
Forward And Reverse Proportional Solenoid Valve

3.1 E-Stop

Component :	E-Stop
Function:	Emergency stop module disables all the outputs in hazardous situation when operator press emergency button at base or platform panel.
Location:	Emergency stop is push button connected at Base and platform control panel.
Location IMG:	
Signal:	The E-stop switch has 2 x NO contacts 1) pressed = 12V 2) unpressed = 0V
Wires & Connectors	

IMG:	
Internal Electrical Schematic IMG:	
Testing:	1. Turn On ignition 2. Press Estop from Base or platform 3. Release the Estop
Expected Values:	E-Stop Unpressed:- 0V E-Stop Pressed:-12V
Related Fault Codes:	B1001-17 B1235-17

3.2 Jib Platform/Rotate

Component :	Jib Platform/Rotate
Function:	The base enable switch is used to allow user to operate the functions from base control panel.
Location:	The base enable switch is connected to the Base control panel
Location IMG:	

Signal:	It is a digital input signal 1) active = 10V 2) inactive = 0V.
Wires & Connectors IMG:	
Internal Electrical Schematic IMG:	
Testing:	1. Turn On ignition 2. Turn On the Base Enable Switch 3. Check the Voltage at the Base Enable switch
Expected Values:	Base Enable Switch Unpressed :- 0V Base Enable Switch Pressed :-10V
Related Fault Codes:	B1005-17 B1007-92 B1008-16 B1010-13

3.3 Base Enable Switch

Component :	Base Enable Switch
Function:	The base enable switch is used to allow user to operate the functions from base control panel.
Location:	The base enable switch is connected to the Base control panel.

Location
IMG:



BASE ENABLE SWITCH

Signal:

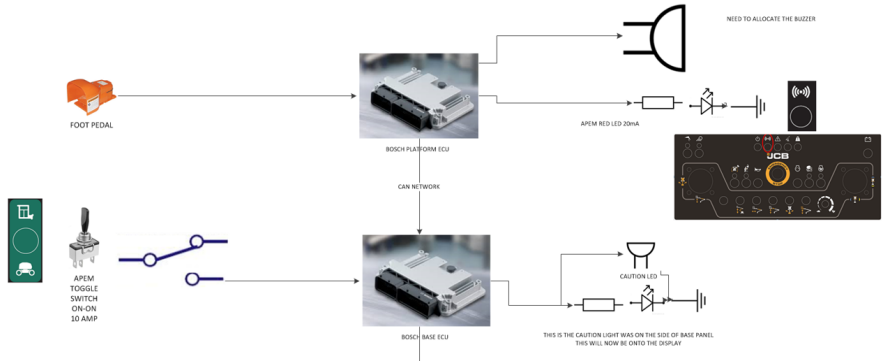
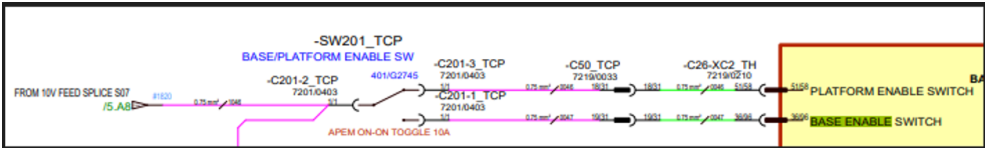
It is a digital input signal
1) active = 10V
2) inactive = 0V.

Wires & Connectors IMG:	
Internal Electrical Schematic IMG:	
Testing:	1. Turn On ignition 2. Turn On the Base Enable Switch 3. Check the Voltage at the Base Enable switch
Expected Values:	Base Enable Switch Unpressed :- 0V Base Enable Switch Pressed :-10V
Related Fault Codes:	B1005-17 B1007-92 B1008-16 B1010-13

3.4 Platform Enable Switch

Component :	Platform Enable Switch
Function:	The platform enable switch is used to allow user to operate the functions from platform control panel.

Location:	The platform enable switch is connected to the Base control panel
Location IMG:	
Signal:	It is a digital input signal 1) active = 10V 2) inactive = 0v.

	
Wires & Connectors IMG:	
Internal Electrical Schematic IMG:	
Testing:	1. Turn On ignition 2. Default the Platform Enable Switch is selected 3. Check the Voltage at platform Enable switch
Expected Values:	Platform Enable Switch Undressed :- 0V Platform Enable Switch Pressed :-10V
Related Fault Codes:	B1006-17 B1007-92 B1009-16 B1010-13

3.5 Slew

Component :	Slew
------------------------	-------------

Function:	The slew function allow user to operate the slew clockwise and anti-clockwise direction.
Location:	It is a toggle switch connected to the BASE and slew joystick is connected to the Platform panel.
Location IMG:	SLEW JOYSTICK / SWITCH Slew proportional solenoid valve Solenoids and their functions 1. Telescope boom out 2. Telescope boom in 3. Boom up 4. Boom down 5. Slew CW 6. Slew CCW 7. Steering left 8. Steering right 9. Platform control (pitch up/down/Platform rotate CW) 10. Platform (pitch down/Platform rotate CCW) 11. Leveling cylinder up 12. Leveling cylinder down
Signal:	Signals from base: 1. Slew Right/Left switch input signal :- Active = 10V Inactive = 0V 2. Slew Right/Left Proportional Solenoid HS output On = 12V OFF = 0V Signals from Platform:- Slew joystick voltage range 1. Min voltage - 0.618V 2. Max voltage - 4.268V 3. Mid voltage - 2.5V

Wires & Connectors IMG:	
Internal Electrical Schematic IMG:	
Testing:	1. Turn On ignition 2. Select Base or platform enable switch 3.Operation from Base - a.Press Base Enable switch + slew switch - b.Measure voltage at slew input - c.Measure slew output solenoid voltage and current. 4.check slew right /left movement 5.Operation from Platform - a.Press Footpedal+ slew switch - b.Measure voltage at slew input - c.Measure slew output solenoid voltage and current. 6.check slew right /left movement
Expected Values:	Operation from Base slew switch voltage :- 10v

	slew solenoid output:-12v Min Current:-810 mAmp Max Current:-1150 mAmp Operation from Platform slew Joystick voltage range Min voltage :- 600mV Max Voltage :-4400mV Mid Voltage:-2500mV slew solenoid output:-12v Min Current:-810 mAmp Max Current:-1150 mAmp
Related Fault Codes:	B1080-17 B1081-16 B1082-13 B1083-17 B1121-17 B1122-17 B1123-92 B1124-16 B1125-16 B1150-17 B1151-16 B1338-17 B1339-16 B1340-13

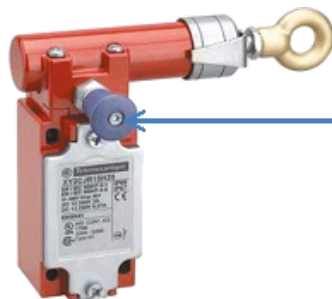
3.6 Crush Protection

Component :	Crush Protection
Function:	The crush protect bar is to protect the operator from being crushed between the basket and any object.
Location:	The limit rope switch mounted at the platform.

**Location
IMG:**



CRUSH PROTECTION LIMIT SWITCH



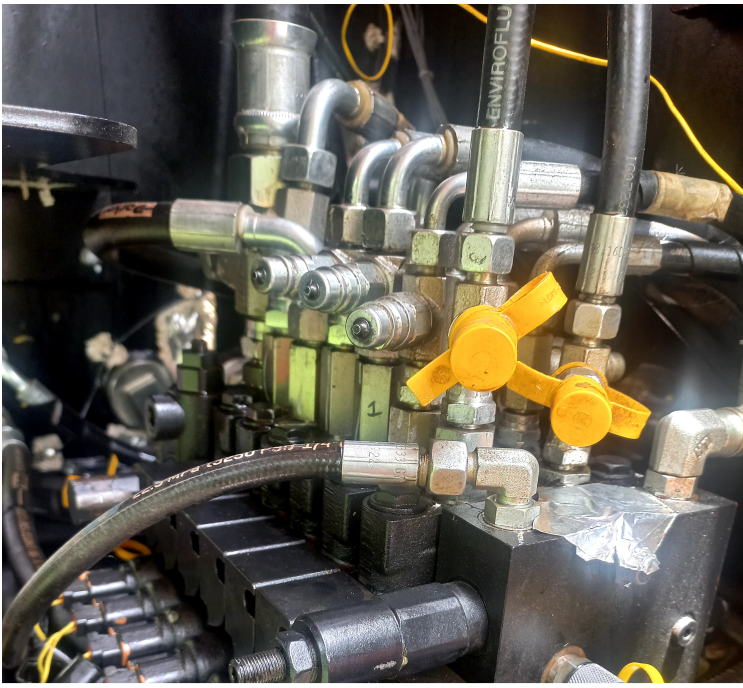
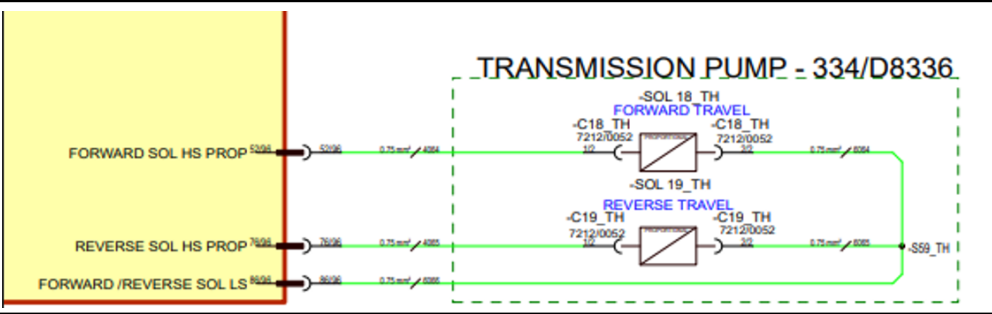
Reset button.

Signal:

1) Two digital input signal
Both the signals are normally closed (NC).

2) In Unpressed condition-
signal = 5V And
signal = 10V.

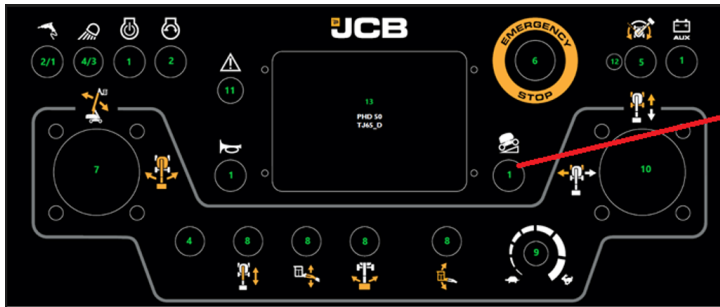
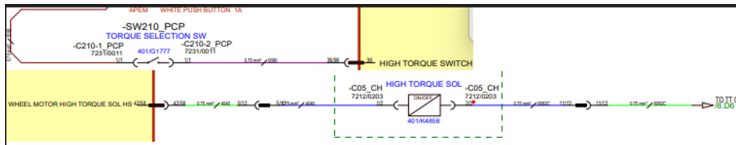
3) In pressed condition:

Location IMG:	
Signal:	Solenoid valve output signal:- 1) On = 12V 2) OFF = 0V
Wires & Connectors IMG:	
Internal Electrical Schematic IMG:	
Testing:	1. Turn the ignition On 2. Select Platform control panel 3. Press the foot pedal 4. press the forward/Reverse drive joystick 5. Verify the drive direction
Expected Values:	Drive Frd Or Rev Solenoid Resistance Min:-2750 mohms

	Max:-22000 mohms Drive in stowed Mode forward Min Current = 450 Reverse Min Current = 420 forward Max Current = 1350 Reverse Max Current = 1350 Drive in Raised Mode forward Min Current =450 Reverse Min Current = 420 forward Max Current = 560
Related Fault Codes:	B1030-17 B1031-16 B1032-13 B1033-17 B1034-16 B1035-13 B1331-13

3.8 High torque switch

Component :	High torque switch
Function:	The high torque is used to control the torque of drive wheel.
Location:	It is a push button mounted on the platform panel
Location IMG:	 TORQUE BUTTON
Signal:	Signals from the base: 1) High Torque Sol HS output:

	On = 12V OFF = 0V Signals from the platform 1) High torque switch input: On = 10V OFF = 0V
Wires & Connectors IMG:	 High Torque switch
Internal Electrical Schematic IMG:	
Testing:	1. Turn the ignition ON. 2. Turn the platform enable switch ON 3. Drive Forward/Reverse 4. Press High Torque Switch from platform 5. Verify the High torque icon on display and voltage
Expected Values:	1.High Torque Switch Input Voltage=10V 2.Wheel Motor High Torque sol= On 3.Wheel Motor High Torque sol Resistance Min:-2750 ohms Max:-22000 ohms
Related Fault Codes:	B1046-17 B1047-16 B1212-17 B1213-16 B1214-24

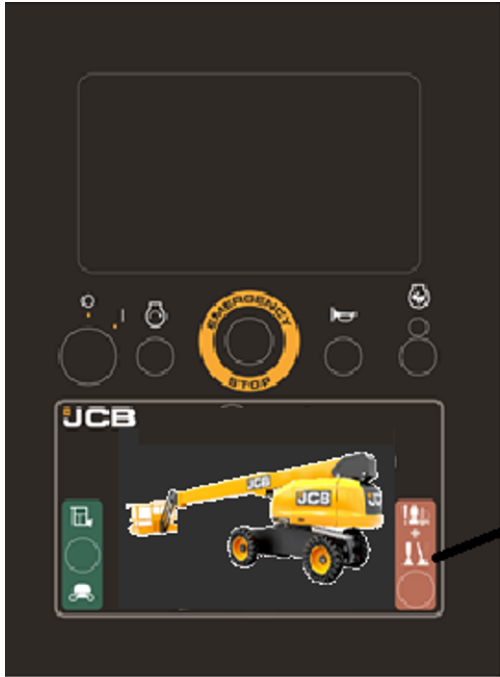
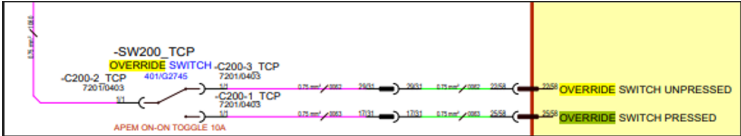
3.9 Electric pump

Component :	Electric Pump
Function:	The electric pump is used to operate all the boom functions from the base and platform control panel when engine is off.
Location:	Electric pump button is located at platform control panel and as a toggle switch it is located at base panel
Location IMG:	 The images illustrate the location of the electric pump controls. The top left image shows the 'BASE PANEL' with a red 'ELECTRIC PUMP TOGGLE SWITCH'. The top right image shows the 'PLATFORM PANEL' with a red 'ELECTRIC PUMP PUSH BUTTON'. The bottom image is a detailed view of the 'JCB' control panel with various buttons and joysticks.
Signal:	It is a digital input signal Active = 12V Inactive = 0V.

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3.10 Override

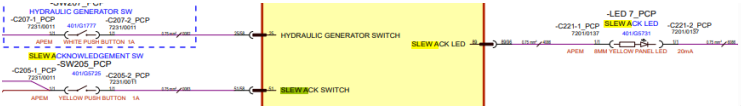
Component :	Override
Function:	The override mode is enabled to operate the boom functions only from base one at a time with electric pump on.
Location:	Override switch held to run switch connetced at base control panel
Location IMG:	 Override Switch
Signal:	It is a digital input signal Active = 10V

	Inactive = 0V.
Wires & Connectors IMG:	
Internal Electrical Schematic IMG:	
Testing:	1. Turn off ignition 2. Press override switch 3. Turn on ignition 4. Check the voltage of Override pin
Expected Values:	Override Status Pressed:-12v Unpressed:-0v Or Pressed:-0v Unpressed:-12v
Related Fault Codes:	B1058-17 B1059-16 B1060-13

	B1061-17 B1062-16 B1063-92
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3.11 Slew Acknowledge LED

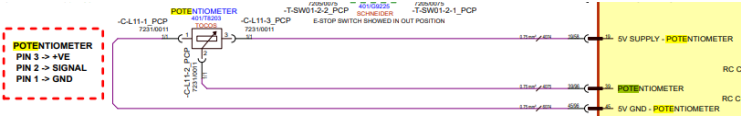
Component :	Slew Acknowledge LED
Function:	When the slew limit fault is active and the operator wants to drive the machine then user can press slew ack button from the platform so as to activate the slew ack LED.
Location:	Slew ACK LED is connected at platform panel
Location IMG:	 SLEW ACK LED
Signal:	1) Slew ack switch input Voltage Active = 10V Inactive = 0V 2) Slew Ack LED output voltage On = 12V OFF = 0V

Wires & Connectors IMG:	 Slew ACK LED
Internal Electrical Schematic IMG:	
Testing:	1. Check wire for 89/96 for 12V signal when the Slew ACK Button is active. 2. Check slew Ack Led Pin on connector for continuity with Ground. 3. Check harness & connector for signs of damage
Expected Values:	12V - On 0V - Off
Related Fault Codes:	B1198-16 B1199-17 B1064-17 B1065-16 B1066-24

3.12 Foot Pedal

Component :	Foot Pedal
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Function:	The foot pedal is used to enable any function from the platform control panel.
Location:	the foot pedal switched is fitted at the platform
Location IMG:	 FOOT PEDAL 
Signal:	It is a digital input signal Active = 10V Inactive = 0V.
Wires & Connectors IMG:	

Location IMG:	 POTENTIOMETER
Signal:	Potentiometer input signal Max position 100% = 5.15V Min position 10% = 0V
Wires & Connectors IMG:	
Internal Electrical Schematic IMG:	
Testing:	1. Turn the ignition On 2. Keep potentiometer in the minimum position 3. verify the potentiometer output 4. Keep potentiometer in the Maximum position 5. verify the potentiometer output 6. Keep potentiometer in between Minimum and Maximum position 7. verify the potentiometer output
Expected Values:	1. Output of Potentiometer in min position = 10% 2. Output of Potentiometer in max position = 100 % 3. Output of Potentiometer when kept in between = > 10%
Related Fault Codes:	B1067-17

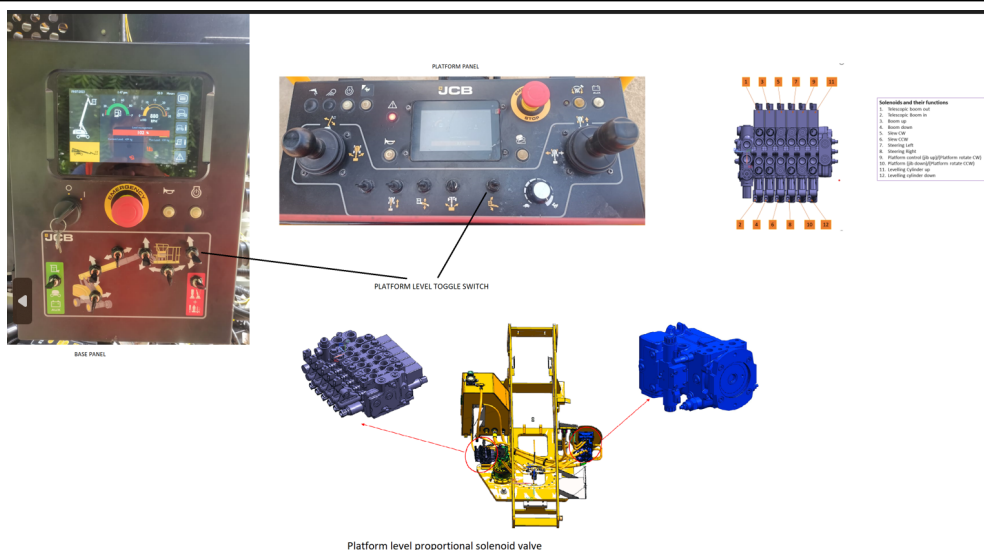
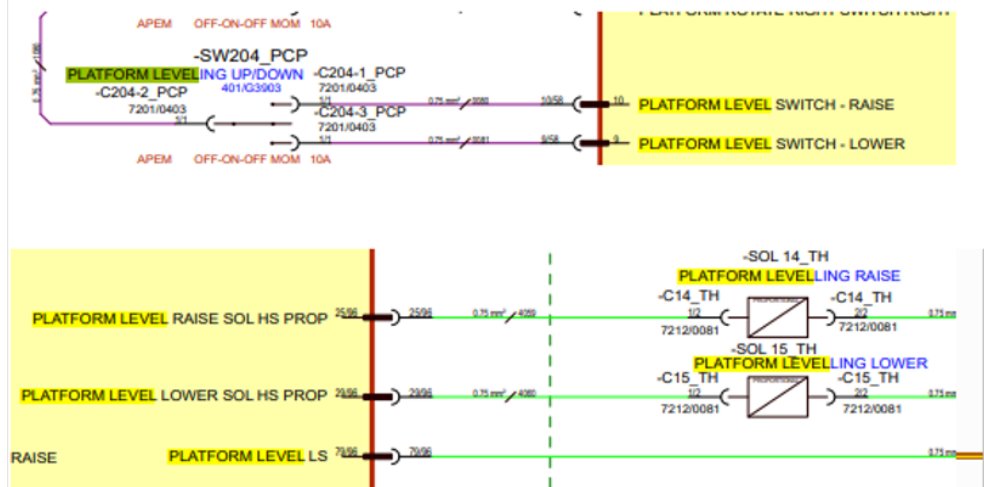
3.14 Drive

Component :	Drive
Function:	The drive joystick is used to operate vehicle in forward or reverse direction.
Location:	The drive joystick is connected at the platform control
Location IMG:	 DRIVE JOYSTICK (UP/DOWN)
Signal:	Drive joystick voltage range 1. Min voltage - 0.618V 2. Max voltage - 4.268V 3. Mid voltage - 2.5V
Wires & Connectors IMG:	
Internal Electrical Schematic IMG:	
Testing:	1. Turn the Ignition ON 2. Select Platform control Panel 3. Press footpedal switch 4. Press Drive joystick Forward/Backward movement 5. Verify the Forward/Backward movement
Expected Values:	Drive Joystick max voltage:-4900 Drive Joystick min voltage:-300

	Drive Solenoid Resistance Min:-2750 mohms Max:-22000 mohms Drive current in stowed Mode forward Min = 450 Reverse Min = 420 forward Max = 1350 Reverse Max = 1350 Drive Current in Raised Mode forward Min = 450 Reverse Min = 420 forward Max= 560 Reverse Max= 510
Related Fault Codes:	B1069-17 B1070-16

3.15 Platform Level

Component :	Platform Level
Function:	The platform level function controls the platform level up and down movement..
Location:	Platform level toggle switch is connected at the base and platform control panel

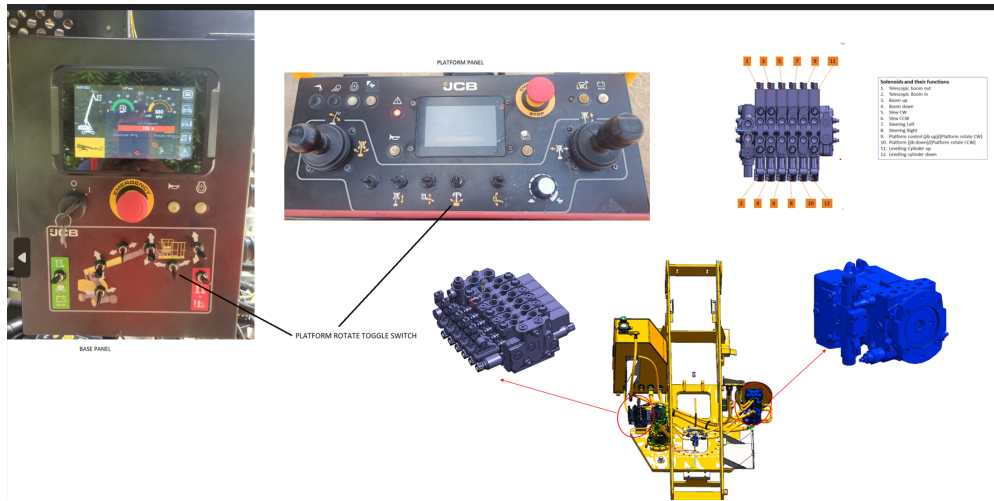
Location IMG:	 Base Panel Platform Panel Platform Level Toggle Switch Platform level proportional solenoid valve Solenoids and their functions 1. Platform Level Up 2. Platform Level Down 3. Platform Level Up/Down 4. Platform Level Up/Down 5. Platform Level Up/Down 6. Platform Level Up/Down 7. Platform Level Up/Down 8. Platform Level Up/Down 9. Platform Level Up/Down 10. Platform Level Up/Down 11. Platform Level Up/Down 12. Platform Level Up/Down 13. Platform Level Up/Down 14. Platform Level Up/Down 15. Platform Level Up/Down
Signal:	1. Platform Leveling raise/lower Switch input signal Active = 10V Inactive = 0V 2. Platform Level Raise/Lower Sol output signal On = 12V OFF = 0V
Wires & Connectors IMG:	
Internal Electrical Schematic IMG:	 APEM OFF-ON-OFF MOM 10A -SW204_PCP PLATFORM LEVELING UP/DOWN -C204-2_PCP 7201/0403 -C204-1_PCP 7201/0403 -C204-3_PCP 7201/0403 PLATFORM LEVEL SWITCH - RAISE PLATFORM LEVEL SWITCH - LOWER PLATFORM LEVEL RAISE SOL HS PROP PLATFORM LEVEL LOWER SOL HS PROP RAISE PLATFORM LEVEL LS -SOL 14_TH PLATFORM LEVELING RAISE -C14_TH 7212/0081 -SOL 15_TH PLATFORM LEVELING LOWER -C15_TH 7212/0081

Testing:	1. Turn On ignition 2. Select Base or platform enable switch 3. Operation from Base a. Press Base Enable switch + PL switch b. Measure voltage at PL input c. Measure PL output solenoid voltage and current. 4. check PL Up/Down movement 5. Operation from Platform a. Press platform Enable switch + PL switch+Footpedal b. Measure voltage at PL input c. Measure PL output solenoid voltage and current. 6. check PL Up /Down movemen
Expected Values:	Platform Level switch voltage :- 10v Platform Level solenoid output:-12v Min Current:-900mAmp Max Current:-1450 mAmp
Related Fault Codes:	B1071-17 B1072-17 B1073-92 B1074-16 B1075-16 B1242-17 B1243-17 B1244-92 B1245-16 B1246-16 B1393-17 B1394-16 B1395-13 B1396-17 B1397-16 B1398-13 B1418-13

Testing:	1. Turn On ignition 2. Select Base or platform enable switch 3.Operation from Base - a.Press Base Enable switch + Main Tele Boom switch - b.Measure voltage at Main Tele Boom input - c.Measure Main Tele Boom output solenoid voltage and current. 4.check Main Tele Boom Up/Down movement 5.Operation from Platform - a.Press platform Enable switch + Main Tele Boom switch+Footpedal - b.Measure voltage at Main Tele Boom input - c.MeasureMain Tele Boom output solenoid voltage and current. 6.check Main Tele Boom Up /Down movement
Expected Values:	Operation from Base Main Tele Boom switch voltage :- 10v Main Tele Boom solenoid output :-12v Main Tele Boom extende Min Current :-1100mAmp Main Tele Boom extende Max Current:-1450mAmp Main Tele Boom Retract Min Current :-800mAmp Main Tele Boom Retract Max Current:-1300mAmp
Related Fault Codes:	B1101-17 B1102-17 B1103-92 B1104-16 B1105-16 B1252-17 B1253-17 B1254-92 B1255-16 B1256-16 B1375-17 B1381-17 B1382-16 B1383-13 B1384-17

	B1385-16 B1386-13 B1416-13
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3.17 Platform Rotate

Component :	Platform Rotate
Function:	The platform rotate functions allows the user to operate the platform in left and right direction.
Location:	Platform rotate limit switch is connected at base and platform panel
Location IMG:	
Signal:	Signals from base: 1. Platform Rotate Left/Right Switch - input signal Active = 10V Inactive = 0V 2. Jib Up/Platform Rotate Right Sol output signal On = 12V OFF = 0V 3. Jib Down/Platform Rotate Left Sol output signal On = 12V

	OFF = 0V 4.Jib/Platform Rotate Sol output signal On = 12V OFF = 0V
Wires & Connectors IMG:	
Internal Electrical Schematic IMG:	
Testing:	1. Turn On ignition 2. Select Base or platform enable switch 3.Operation from Base - a.Press Base Enable switch + Platform Rotate switch - b.Measure voltage at Platform Rotate input

	c.Measure Platform Rotate output solenoid voltage and current. 4.check Platform Rotate right/ left movement 5.Operation from Platform a.Press platform Enable switch + Platform Rotate switch+Footpedal b.Measure voltage at Platform Rotateinput c.MeasurePlatform Rotate output solenoid voltage and current. 6.check Platform Rotate Right/Left movement
Expected Values:	Platform Level switch voltage :- 10v Platform Level solenoid output:-12v Min Current:-800mAmp Max Current:-1000 mAmp
Related Fault Codes:	B1106-17 B1107-17 B1108-92 B1109-16 B1110-16 B1257-17 B1258-17 B1259-92 B1260-16 B1261-16 B1329-13 B1330-16 B1399-17 B1400-16 B1401-13 B1402-17 B1403-16 B1404-13 B1411-17 B1412-16 B1413-13 B1419-13

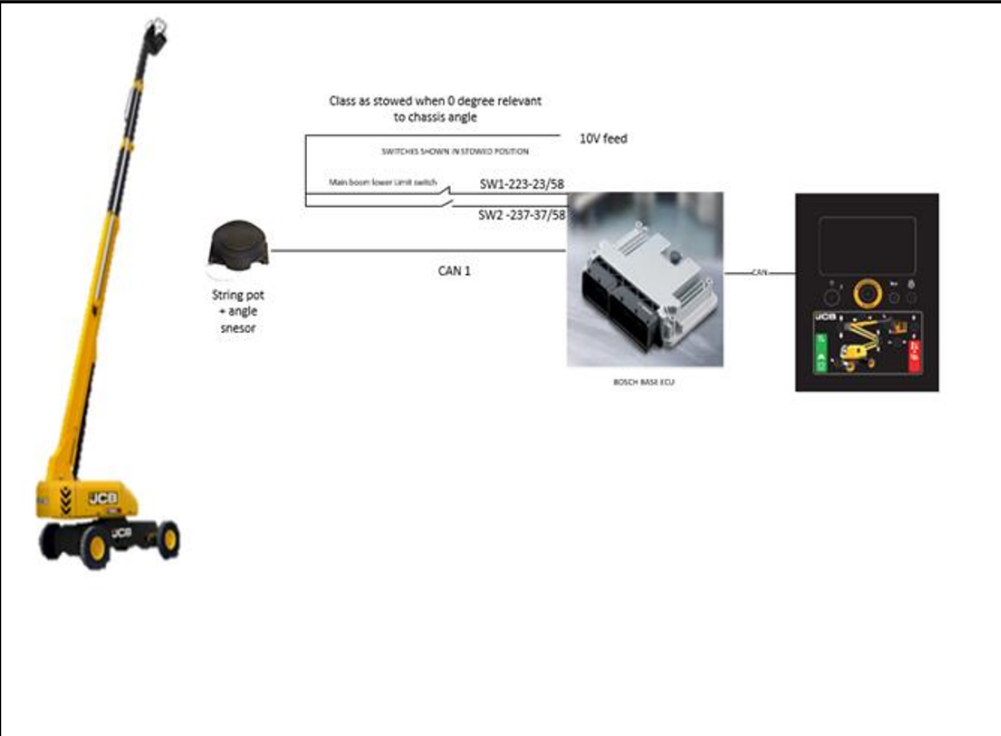
Wires & Connectors IMG:	
Internal Electrical Schematic IMG:	
Testing:	1. Turn On ignition 2. Select Base or platform enable switch 3. Operation from Base a. Press Base Enable switch + Jib switch b. Measure voltage at Jib input c. Measure Jib output solenoid voltage and current. 4. check Jib right/ left movement 5. Operation from Platform a. Press platform Enable switch + Jib switch+Footpedal b. Measure voltage at Jib input c. Measure Jib output solenoid voltage and current. 6. check Jib Up/ Down movement

Expected Values:	Operation from Base Jib switch voltage :- 10v Jib solenoid output :-12v Jib Up Min Current :- 900mAmp Jib Up Max Current:-1100mAmp Jib Down Min Current :-800mAmp Jib Down Max Current:-1000mAmp
Related Fault Codes:	B1111-17 B1112-17 B1113-92 B1114-16 B1115-16 B1262-17 B1263-17 B1264-92 B1265-16 B1266-16 B1329-13 B1330-16 B1399-17 B1400-16 B1401-13 B1402-17 B1403-16 B1404-13 B1411-17 B1412-16 B1413-13 B1419-13 B1420-13

3.19 Main Boom Limit Switch

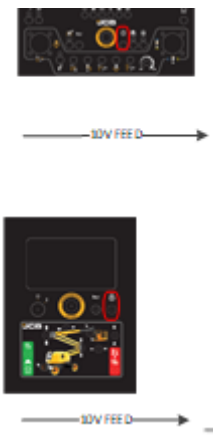
Component :	Main Boom Lower Limit Switch
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Function:	1) Main boom lower limit switch determines the machine working state (i.e., raised/stowed). 2) In stowed mode the switch is in pressed condition and in raised mode switch is in unpressed condition.
Location:	Limit switch is connected on machine body and it is located near the slew ring
Location IMG:	 BOOM DOWN LIMIT SWITCH
Signal:	1) Two digital input signal, One input is normally open (NO) and one normally closed (NC). 2) In pressed condition:- signal 1 = 10V And signal 2 = 0V. 3) In Unpressed condition signal 1 = 0V And signal 2 = 10V.

	 The diagram illustrates the electrical system for the JCB T65D boom. It shows a yellow JCB boom with a black hydraulic cylinder. A 'String pot + angle sensor' is connected to the boom. A 'Main boom lower limit switch' (SW1-223-23/58) and a 'SW2-237-37/58' are shown. A '10V feed' is connected to the system. A 'CAN 1' line connects the sensor and switches to a 'BOSCH BMS ECU'. The ECU is connected to a 'JCB' control panel.
Wires & Connectors IMG:	
Internal Electrical Schematic IMG:	
Testing:	
Expected Values:	N/A
Related Fault Codes:	

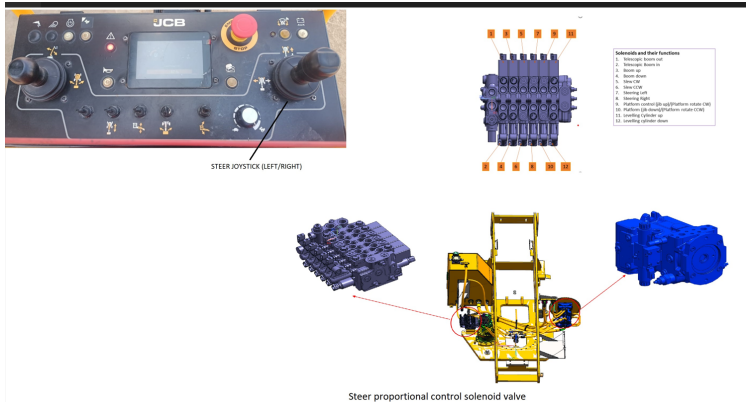
3.20 10V Input System

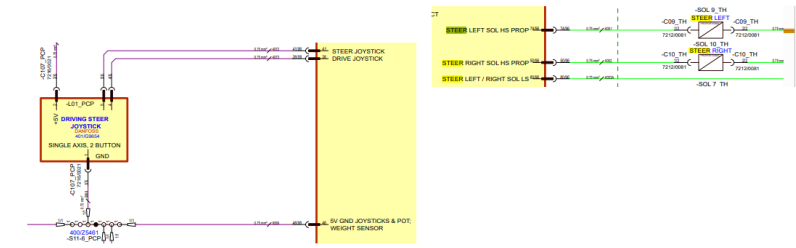
Component :	10V Input System
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Function:	10V input system provides the input voltage to the various components of the machine
Location:	
Location IMG:	
Signal:	Input signal On = 10V OFF = 0V 
Wires & Connectors IMG:	
Internal Electrical Schematic IMG:	
Testing:	1. Turn the ignition ON 2. Verify the voltage at input
Expected Values:	10V
Related Fault Codes:	B1144-17 B1145-16 B1267-17

	B1268-16
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3.21 Steer System

Component :	Steer
Function:	The steer function allows the user to operate the steer left and right operation.
Location:	Steer joystick is connected at platform panel
Location IMG:	 The image contains three parts: 1. A photograph of the JCB steering joystick with the label 'STEER JOYSTICK (LEFT/RIGHT)'. 2. A photograph of a hydraulic solenoid valve with the label 'Steer proportional control solenoid valve'. 3. A schematic diagram of the steering system showing the joystick, solenoid valve, and hydraulic cylinders. A legend titled 'Solenoids and Their Functions' lists: 1. Forward (steer up), 2. Reverse (steer down), 3. Steer left, 4. Steer right, 5. Forward (steer up) (steer up), 6. Reverse (steer down) (steer down), 7. Forward (steer up) (steer up), 8. Reverse (steer down) (steer down), 9. Forward (steer up) (steer up), 10. Reverse (steer down) (steer down), 11. Forward (steer up) (steer up), 12. Reverse (steer down) (steer down).
Signal:	Signals from base: 1. Steer Right Solenoid output signal On = 12V OFF = 0V Signals from platform: Steer joystick input Voltage 1. Min voltage = 1.545V 2. Max voltage = 3.395V 3. mid voltage = 2.5V
Wires & Connectors IMG:	

Internal Electrical Schematic IMG:	
Testing:	
Expected Values:	N/A
Related Fault Codes:	

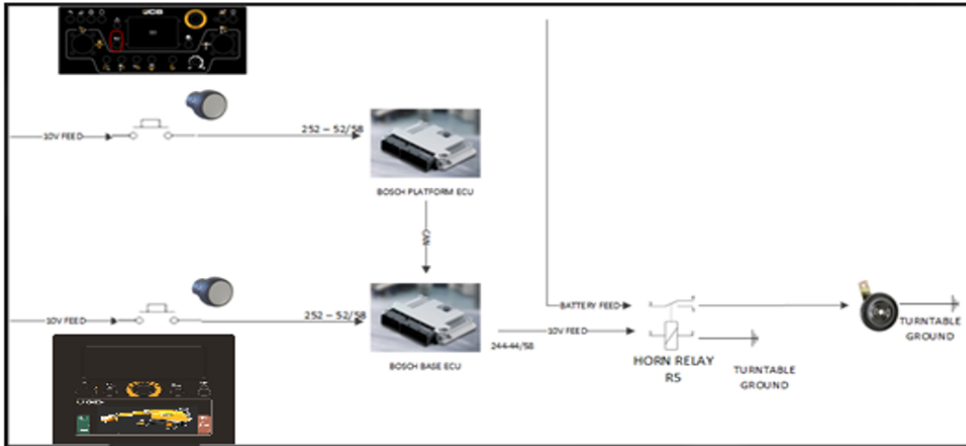
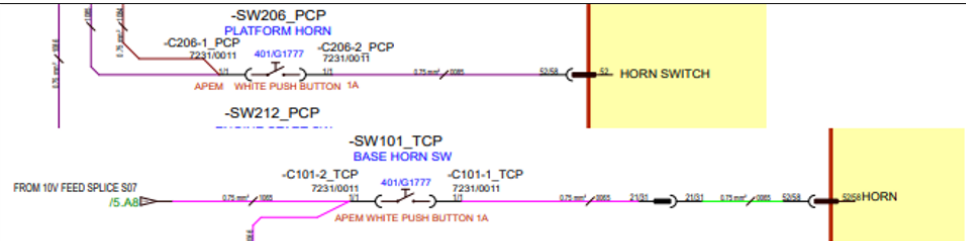
3.22 Buzzer

Component :	Buzzer
Function:	The warning Buzzer indicates something requires attention of the operator.
Location:	Buzzer is connected inside the base panel
Location IMG:	
Signal:	It is the digital output signal On = 12V OFF = 0V
Wires & Connectors IMG:	

Internal Electrical Schematic IMG:	
Testing:	1. check wire for 90/96 for 12V signal when the buzzer should sound. 2. Check Pin on Buzzer connector for continuity with Ground. 3. Check harness & connector for signs of damage.
Expected Values:	12V
Related Fault Codes:	B1177-16 B1178-13 B1269-16 B1270-17

3.23 Horn

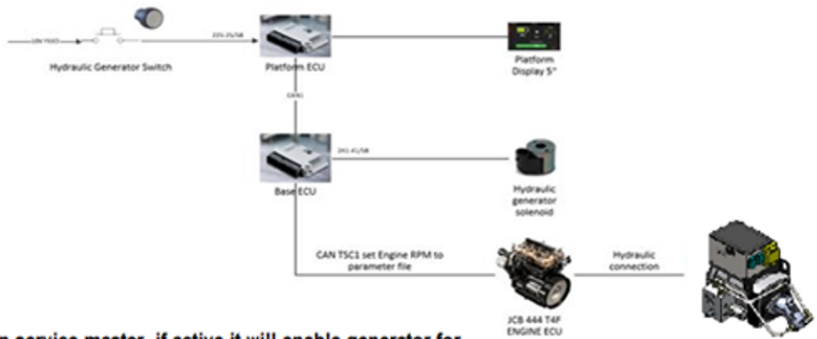
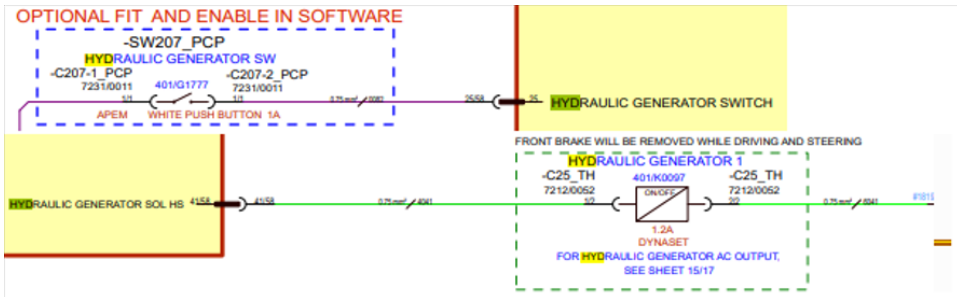
Component :	Horn
Function:	The horn is used as an audible warning from the operator
Location:	Horn push button connected at base and platform panel

Location IMG:	 BASE PANEL PLATFORM PANEL HORN PUSH BUTTON
Signal:	1) Horn switch input signal Active = 10V Inactive = 0V 2) Horn output signal On = 12V OFF = 0V
Wires & Connectors IMG:	 30V FEED 252 - 52/58 BOSCH PLATFORM ECU BOSCH BASE ECU BATTERY FEED 244-44/58 HORN RELAY RS TURNABLE GROUND
Internal Electrical Schematic IMG:	 -SW206_PCP PLATFORM HORN -C206-1_PCP 7231/0011 -C206-2_PCP 7231/0011 APEM WHITE PUSH BUTTON 1A -SW212_PCP -SW101_TCP BASE HORN SW -C101-2_TCP 7231/0011 -C101-1_TCP 7231/0011 APEM WHITE PUSH BUTTON 1A 52H HORN FROM 10V FEED SPICE S07 /S.A8

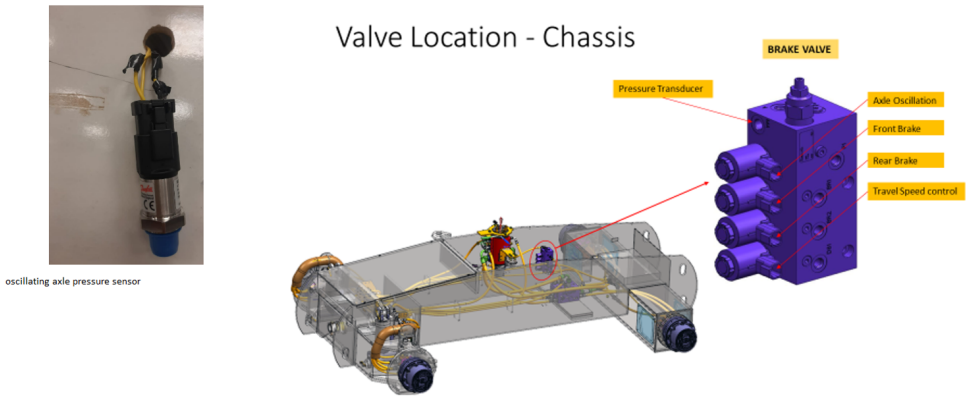
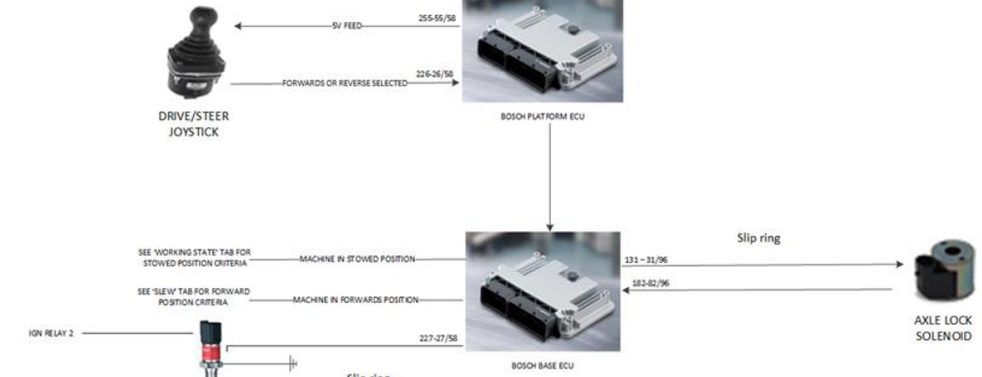
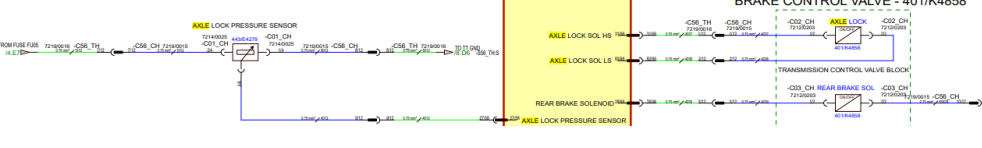
Testing:	1. Turn the ignition ON. 2. Turn the base enable switch ON (voltage reading = 10v). 3. Turn the base horn enable switch ON (horn pressed). 4. Verify base horn enable status.
Expected Values:	Horn switch input signal - 10V Horn output signal - 12V
Related Fault Codes:	

3.24 Hydraulic Generator

Component :	Hydraulic Generator
Function:	The hydraulic generator is used to generate electric power which can be used for utility application at basket.
Location:	Hydraulic generator switch is connected at platform panel Hydraulic generator solenoid is connected at Base panel
Location IMG:	 HYDRAULIC GENERATOR PUSH BUTTON
Signal:	Signals from the base: 1) Hydraulic Generator Solenoid output On = 12V OFF = 0V

	Signals from Platform: 1) Hydraulic generator start button Active = 10V Inactive = 0V
Wires & Connectors IMG:	 Option set in service master, if active it will enable generator for 7KW
Internal Electrical Schematic IMG:	 OPTIONAL FIT AND ENABLE IN SOFTWARE -SW207_PCP HYDRAULIC GENERATOR SW -C207-1_PCP 7231/0011 -C207-2_PCP 7231/0011 401K01777 APEM WHITE PUSH BUTTON 1A HYDRAULIC GENERATOR SOL HS HYDRAULIC GENERATOR SWITCH FRONT BRAKE WILL BE REMOVED WHILE DRIVING AND STEERING HYDRAULIC GENERATOR 1 -C25_TH 7212/0052 401K0097 -C25_TH 7212/0052 1.2A DYNASET FOR HYDRAULIC GENERATOR AC OUTPUT, SEE SHEET 15/17
Testing:	1. Turn the Ignition ON. 2. Turn the Platform Enable switch ON. . 3. Keep the Foot pedal switch OFF. 4. Turn the Hydraulic Generator switch ON (switch is pressed). 5. Verify Hydraulic Generator output
Expected Values:	Hydraulic Generator Input switch pressed=12V Engine RPM when hydraulic Generator is active = 2000
Related Fault Codes:	B1215-17 B1216-16 B1217-24 B1355-16 B1356-13

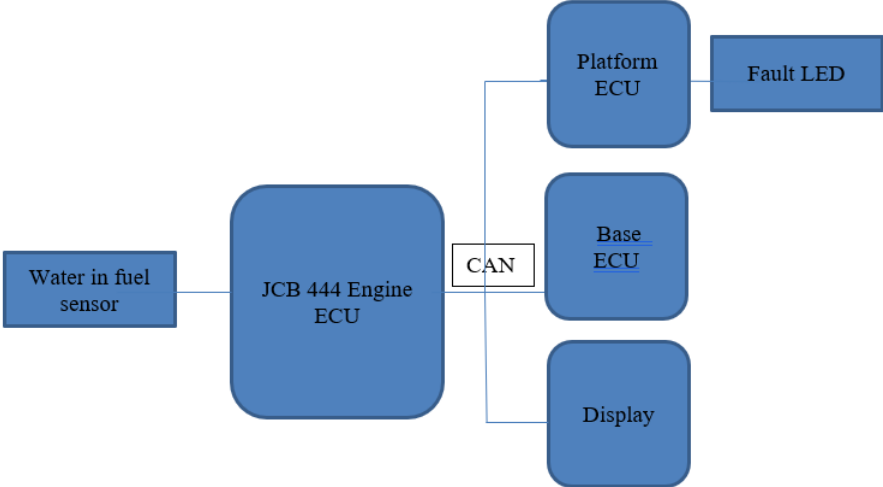
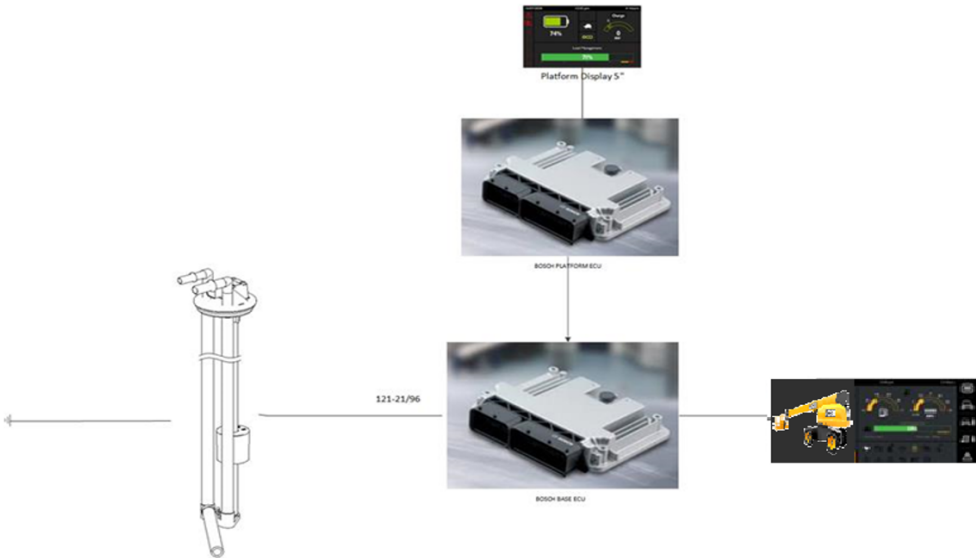
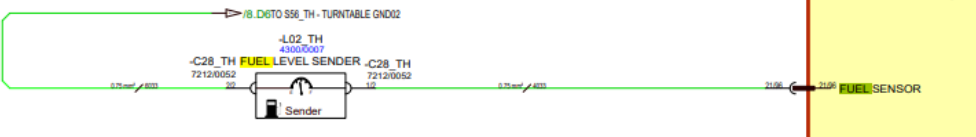
3.25 Oscillating Axle

Component :	Oscillating Axle
Function:	The oscillating axle pressure sensor is used to unlock the axle while driving in raised mode.
Location:	Axle lock solenoid is fitted in Brake control Valve. The Axle pressure sensor is mounted into the pilot line of the oscillating axle valve.
Location IMG:	 oscillating axle pressure sensor Valve Location - Chassis BRAKE VALVE Pressure Transducer Axle Oscillation Front Brake Rear Brake Travel Speed control
Signal:	1. Axle lock pressure sensor input voltage:- 0.5V - 4.5V 2. axle lock solenoid output signal: On = 12V OFF= 12V
Wires & Connectors IMG:	 DRIVE/STEER JOYSTICK 5V FEED 255-55/58 FORWARDS OR REVERSE SELECTED 226-26/58 BOSH PLATFORM ECU SEE 'WORKING STATE' TAB FOR STOWED POSITION CRITERIA MACHINE IN STOWED POSITION SEE 'SLEW' TAB FOR FORWARD POSITION CRITERIA MACHINE IN FORWARDS POSITION IGN RELAY 2 227-27/58 Slip ring 131 - 31/56 152-82/56 BOSH BASE ECU AXLE LOCK SOLENOID
Internal Electrical	 AXLE LOCK PRESSURE SENSOR AXLE LOCK SOL HS AXLE LOCK SOL LS REAR BRAKE SOLENOID AXLE LOCK PRESSURE SENSOR BRAKE CONTROL VALVE - 401/K4858 TRANSMISSION CONTROL VALVE BLOCK

Schematic IMG:	
Testing:	1. Turn the ignition ON. 4. Keep machine working state = Stowed. 5. Keep machine in forward position. 4. Perform any drive operation (forward/reverse). 5. Verify that axle lock is in unlocked by measuring the axle lock solenoid voltage.
Expected Values:	Input Axle Lock Pressure Sensor voltage:-0.5V - 4.5V Axle lock solenoid voltage :-12V
Related Fault Codes:	B1043-17 B1044-16 B1045-13 B1227-17 B1228-16 B1301-2F B1348-16 B1349-13 B1347-17

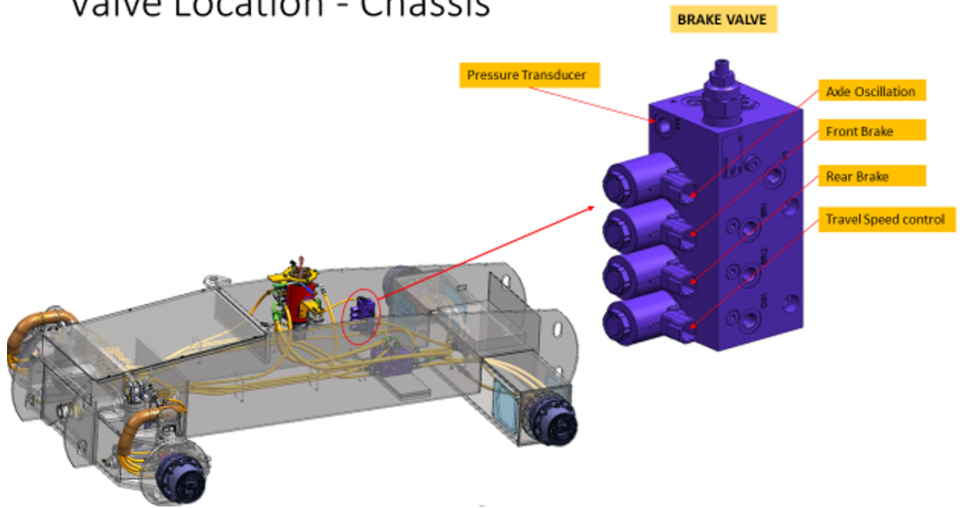
3.26 Fuel Sensor

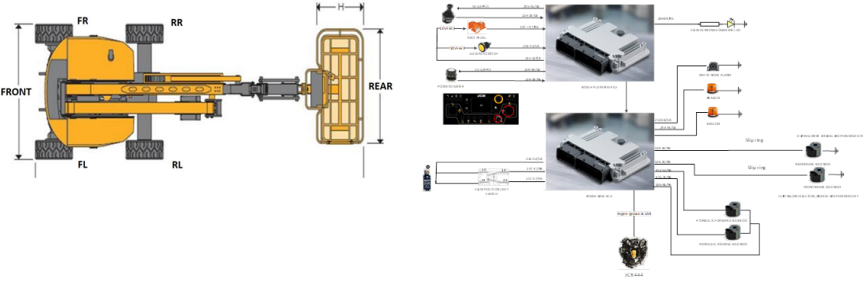
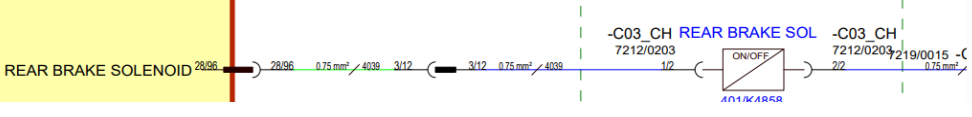
Component :	Fuel Sensor
Function:	The fuel sensor senses the fuel in the tank and warns operator when the fuel level is low.
Location:	Fuel sensor is connected inside the fuel tank

Location IMG:	
Signal:	The fuel sensor input signal:- 1. Fuel level between 25% to 10% (low fuel warning) = 3.3V 2. Fuel level greater than 25% = 0V
Wires & Connectors IMG:	
Internal Electrical Schematic IMG:	
Testing:	1. Turn the ignition ON.

	2. Turn the platform enable switch ON 3. Keep the Fuel level between 25% to 10% 4. verify the Fuel sensor led on display
Expected Values:	Fuel sensor Led :- On Fuel sensor Voltage :- 3.3V
Related Fault Codes:	B1232-17 B1233-16 B1287-2F

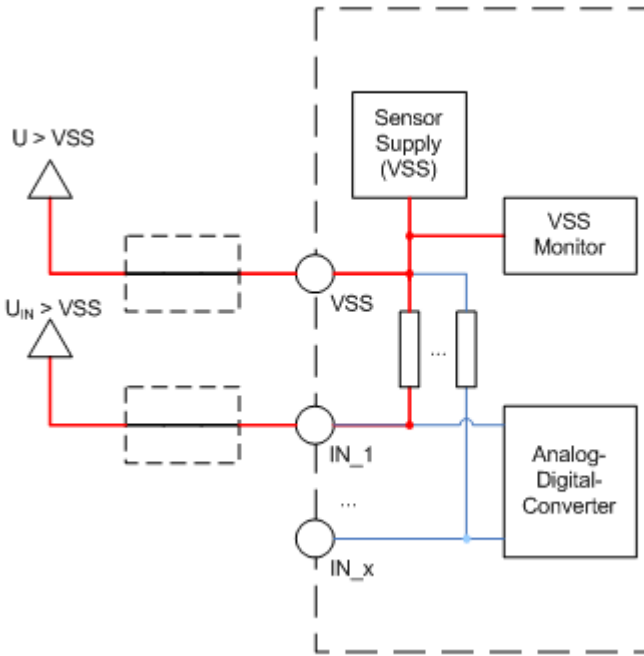
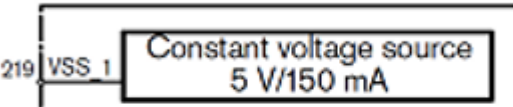
3.27 Rear Brake

Component :	Rear Brake
Function:	Rear brake is used to reduce the drive speed or stop the machine.
Location:	Rear Break solenoid is connected inside the base panel plate
Location IMG:	Valve Location - Chassis 
Signal:	Rear brake Solenoid output signal On = 12V OFF = 0V

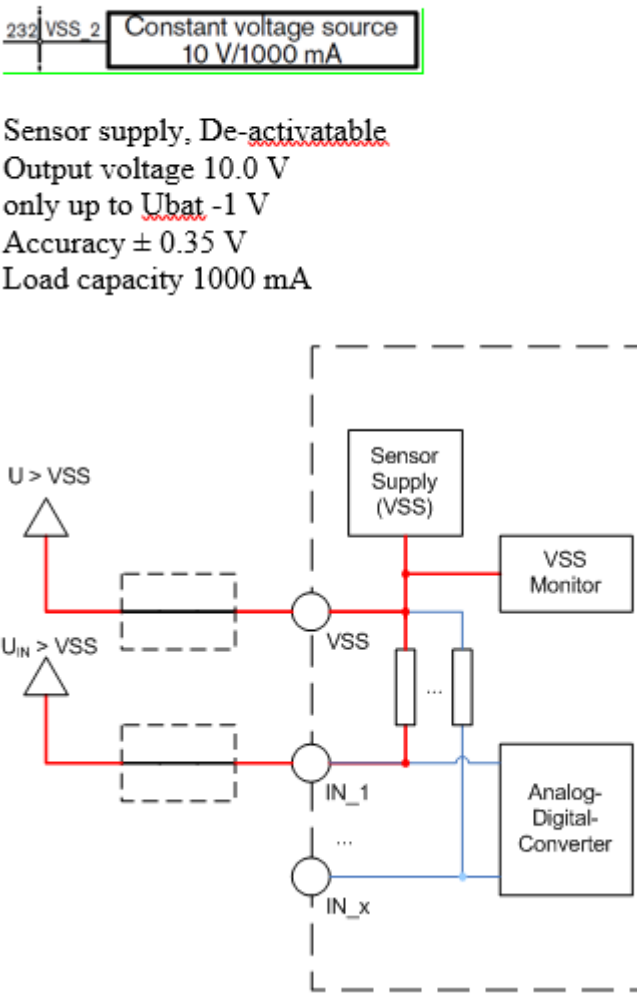
Wires & Connectors IMG:	
Internal Electrical Schematic IMG:	
Testing:	1. Turn the Ignition ON. 2. Select the Platform Enable switch 3. Press the Drive joystick Frw/Rev 4. Verify the brake status.
Expected Values:	Drive Frd Or Rev Solenoid Resistance Min:-2750 mohms Max:-22000 mohms Drive in stowed Mode forward Min Current = 450 Reverse Min Current = 420 forward Max Current = 1350 Reverse Max Current = 1350 Drive in Raised Mode forward Min Current = 450 Reverse Min Current = 420 forward Max Current = 560 Reverse Max Current = 510
Related Fault Codes:	B1278-17 B1279-16

3.28 VSS1

Component :	VSS1
Function:	It provides the power supply to the Sensor
Location:	
Location IMG:	
Signal:	Output volatge = 5V
Wires & Connectors IMG:	

Internal Electrical Schematic IMG:	 VSS1  Sensor supply Output voltage 5.0 V Accuracy ± 0.15 V Load capacity 150 mA
Testing:	1. Turn the Ignition ON. 2. Verify the Voltage levels
Expected Values:	5V
Related Fault Codes:	B1283-16

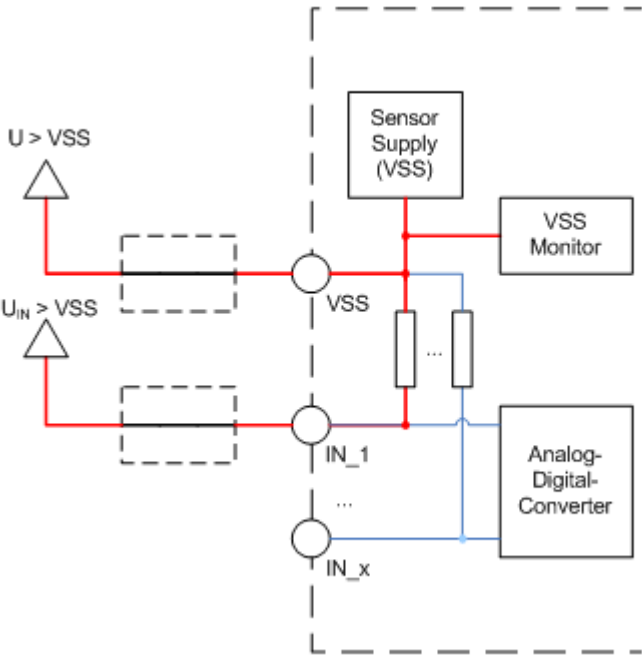
3.29 VSS2

Component :	VSS2
Function:	It provides the power supply to the Sensor
Location:	
Location IMG:	
Signal:	Output volatge = 10V
Wires & Connectors IMG:	VSS2  Sensor supply, De-activatable Output voltage 10.0 V only up to $U_{bat} - 1\text{ V}$ Accuracy $\pm 0.35\text{ V}$ Load capacity 1000 mA

Internal Electrical Schematic IMG:	
Testing:	1. Turn the Ignition ON. 2. Verify the Voltage levels
Expected Values:	10V
Related Fault Codes:	B1281-16 B1284-16

3.30 VSS3

Component :	VSS3
Function:	It provides the power supply to the Sensor
Location:	

Location IMG:	 VSS3 255 VSS 3 Constant voltage source 5 V/250 mA Sensor supply, De-activatable Output voltage 5.0 V Accuracy ± 0.15 V Load capacity 250 mA
Signal:	Output Voltage = 5V
Wires & Connectors IMG:	
Internal Electrical Schematic IMG:	
Testing:	1. Turn the Ignition ON. 2. Verify the Voltage levels

Expected Values:	5V
Related Fault Codes:	B1285-16

3.31 Alternator

Component :	Alternator
Function:	The alternator is a three phase generator having a rotating field winding and static power windings. When the ignition switch is turned on, the current from the battery flows by way of the No Charge warning light to the field winding. This creates a magnetic field which supplements the residual magnetism in the rotor poles. As the engine is started, the fan belt drives the rotor and the alternating current is generated in the power windings as they are cut by the rotating magnetic field. Output is controlled by a solid state regulator which varies the field current in accordance with electrical demand to charge the battery.
Location:	Alternator is connected near to engine

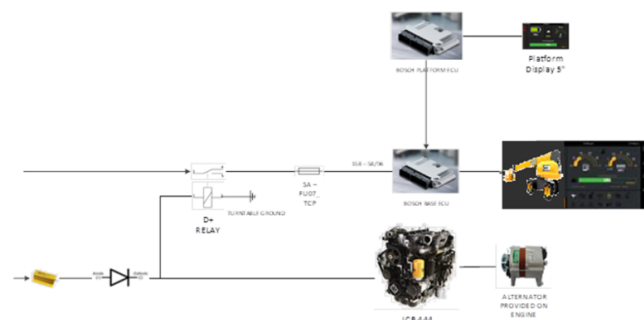
Location
IMG:

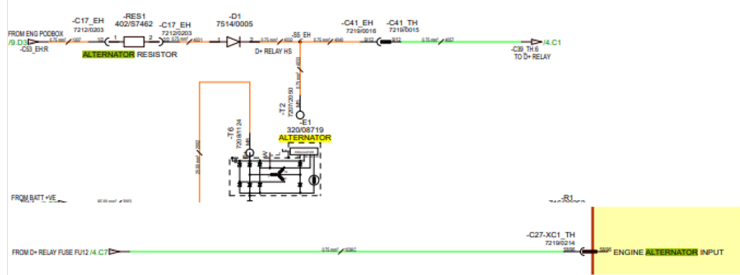


ALTERNATOR

Signal:

Digital Input from alternator to base ECU
On = 12V
OFF = 0V



Wires & Connectors IMG:	
Internal Electrical Schematic IMG:	
Testing:	
Expected Values:	N/A
Related Fault Codes:	

3.32 CAN

Component :	CAN	
Function:	CAN allows the communication between the multiple controllers(Base, platform engine,wire reel sensor,tilt sensor)	
Location:		
Location IMG:		
Signal:	CAN H	CAN L

	MA - Battery feed (Fused 3A) M3/L3 - Battery negative M2 - Ignition Input L2 - Chassis Ground D4 - Can H J1939 E4 - Can L J1939 C3 - Can Shield J1939 L1 - Anti Tamper ECU K1 - Anti Tamper Link E2 - Anti Dr Platform Display 5" Display 7" TERMINATING RESISTOR BOSCH PLATFORM ECU d44 Wire reel + Angle Sensor Tilt sensor Chassis Angle BOSCH BASE ECU d43 JCB 444 T4F ENGINE ECU CAN J1939 CAN 15765 D1 - J1939 CAN H D2 - J1939 CAN L D11 - 15765 CAN L D12 - 15765 CAN H A = -VE B = +VE 50A Fused C = J1939 CAN H D = J1939 CAN L E = J1939 Shield F = Ground G = CAN 12V H = CAN 12V J = CAN 12V Fit blanking cap
Wires & Connectors IMG:	
Internal Electrical Schematic IMG:	INTERNAL ELECTRICAL SCHEMATIC JCB 444 T4F ENGINE ECU BOSCH PLATFORM ECU d44 BOSCH BASE ECU d43 CAN H CAN L TERMINATING RESISTOR Legend: A = -VE, B = +VE 50A Fused, C = J1939 CAN H, D = J1939 CAN L, E = J1939 Shield, F = Ground, G = CAN 12V, H = CAN 12V, J = CAN 12V
Testing:	1. Turn the Ignition On 2. check the connection of CAN H & CAN L 3. Check the 120 Ohm terminator resister are connected 4. Operate any Function from platform or Base 5. check the operation
Expected Values:	No CAN communication Fault
Related Fault	U040B-00 U040B-00 U010A-88 U040B-96

Codes:	U040B-97 U040B-4B U040B-98 P1509-00 U010C-88 U040D-00 U040D-96 U040D-97 U040D-98 U040D-9A U040D-00 U040D-54 U1293-87 U1294-56 U1295-41 U1296-87 U1297-56 U1298-41 U1299-87 U1323-56 U1324-56 U1325-56 U1326-41 U1327-41 U1328-41
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3.33 RC Config

Component :	RC Config
Function:	RC config pins has been used by Boot Block to define source address of base and platform ECU 1) For Base:- Boot Block claims 0x03 as source address on CAN network and reports 0x128E as Module ID in CAN name. 2) for platform:- Boot Block claims 0xE4 as source address on CAN network and reports 0x1290 as Module ID in CAN name.
Location:	
Location IMG:	
Signal:	Base Signal: RC Config Pin 1 = OC RC Config Pin 2 = Ground Platform Signal: RC Config Pin 1 = Ground RC Config Pin 2 = OC
Wires & Connectors IMG:	
Internal Electrical Schematic IMG:	
Testing:	1. check wire for 49/58 & 96/96 for 12V signal.

	2. Check RC Config Pin on connector for continuity with Ground. 3. Check harness & connector for signs of damage
Expected Values:	12V
Related Fault Codes:	B1302-2F B1303-2F

3.34 High Engine Speed Switch

Component :	High Engine Speed Switch
Function:	High engine speed push button at platform is used to change engine speed between high and low speed or vice-versa.
Location:	High engine speed switch is connected at the platform panel.
Location IMG:	 HIGH ENGINE SPEED PUSH BUTTON
Signal:	High engine speed switch input signal Active = 10V Inactive = 0V

	Engine Speed Selection
Wires & Connectors IMG:	
Internal Electrical Schematic IMG:	
Testing:	1. Turn the Ignition On. 2. Check Engine On state 3. Press High Engine speed button from platform 4. turn on any Boom function from platform. 5. Check the Engine speed.
Expected Values:	1. High Engine Speed Switch voltage = 12V 2. High Engine Speed a. idel speed:-850 RPM b. Low Speed:-1500 RPM c. High Speed:-2200 RPM
Related Fault	B1209-17 B1210-16

Codes:	B1211-24
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System Level Functions

4 System Level Functions

4.1 Ignition

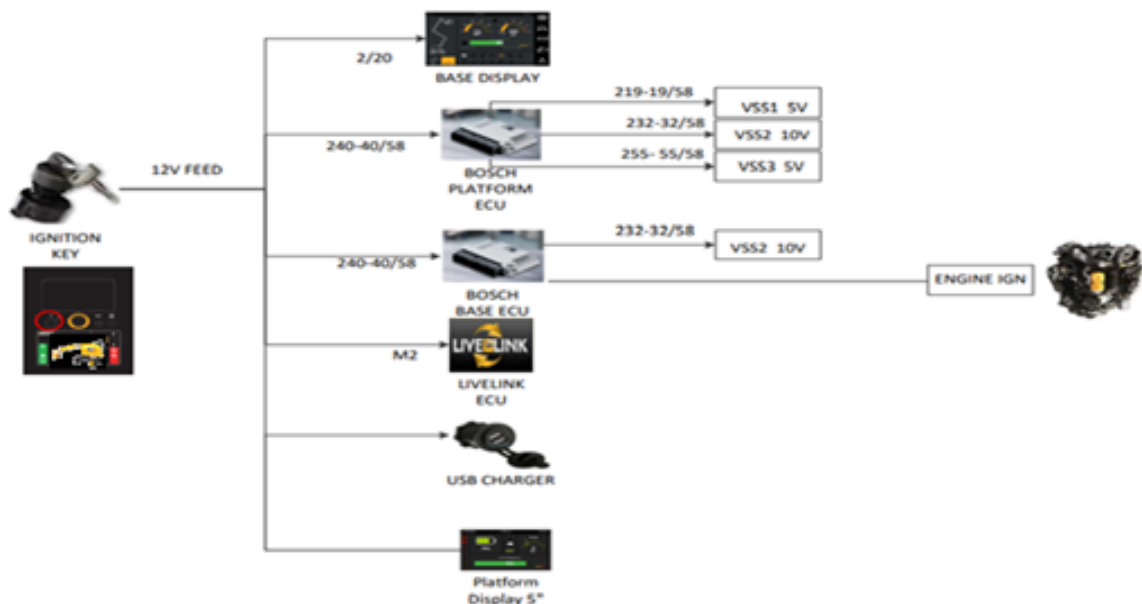
Function

The ignition turns on and off the main power of the machine.

The system diagram is assuming the isolator key is fitted and 'ON'

The diagram below shows the main components that will turn on when the ignition is cycled 'ON'

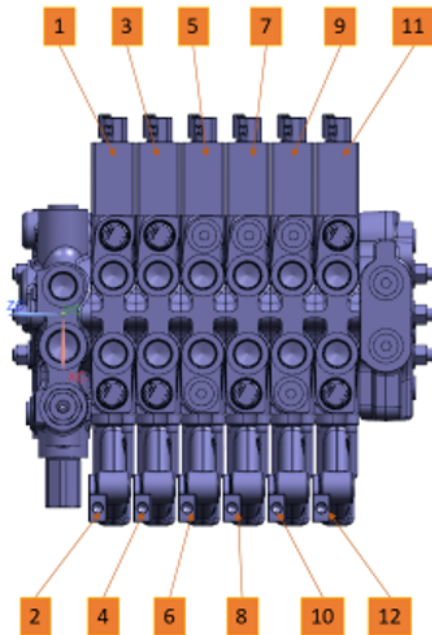
When the key is turned on there should be 3 beeps from the base and platform buzzers



4.2 Main Control Valve

Function

Main Control Valve

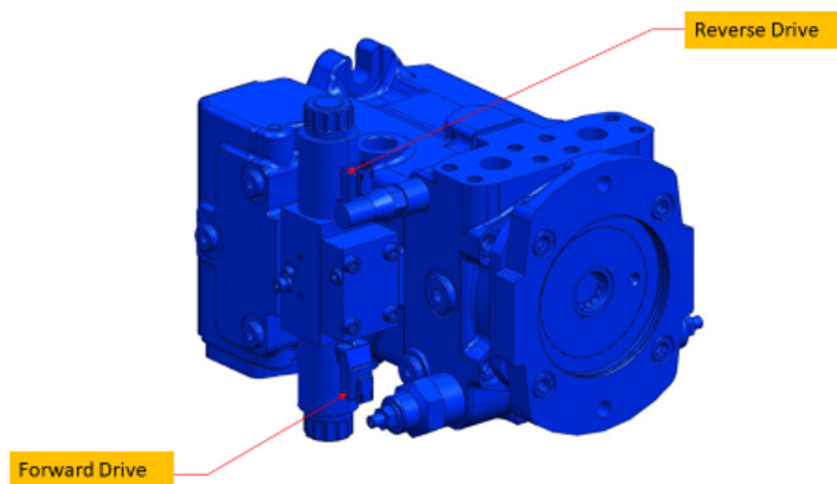


Solenoids and their functions

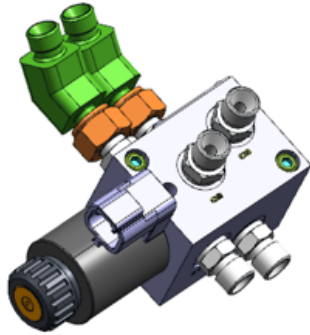
1. Telescopic boom out
2. Telescopic Boom in
3. Boom up
4. Boom down
5. Slew CW
6. Slew CCW
7. Steering Left
8. Steering Right
9. Platform control (jib up)/(Platform rotate CW)
10. Platform (jib down)/(Platform rotate CCW)
11. Levelling Cylinder up
12. Levelling cylinder down

4.3 Transmission Pump Control Valve Function

TRANSMISSION PUMP CONTROL



4.4 Platform Control Valve

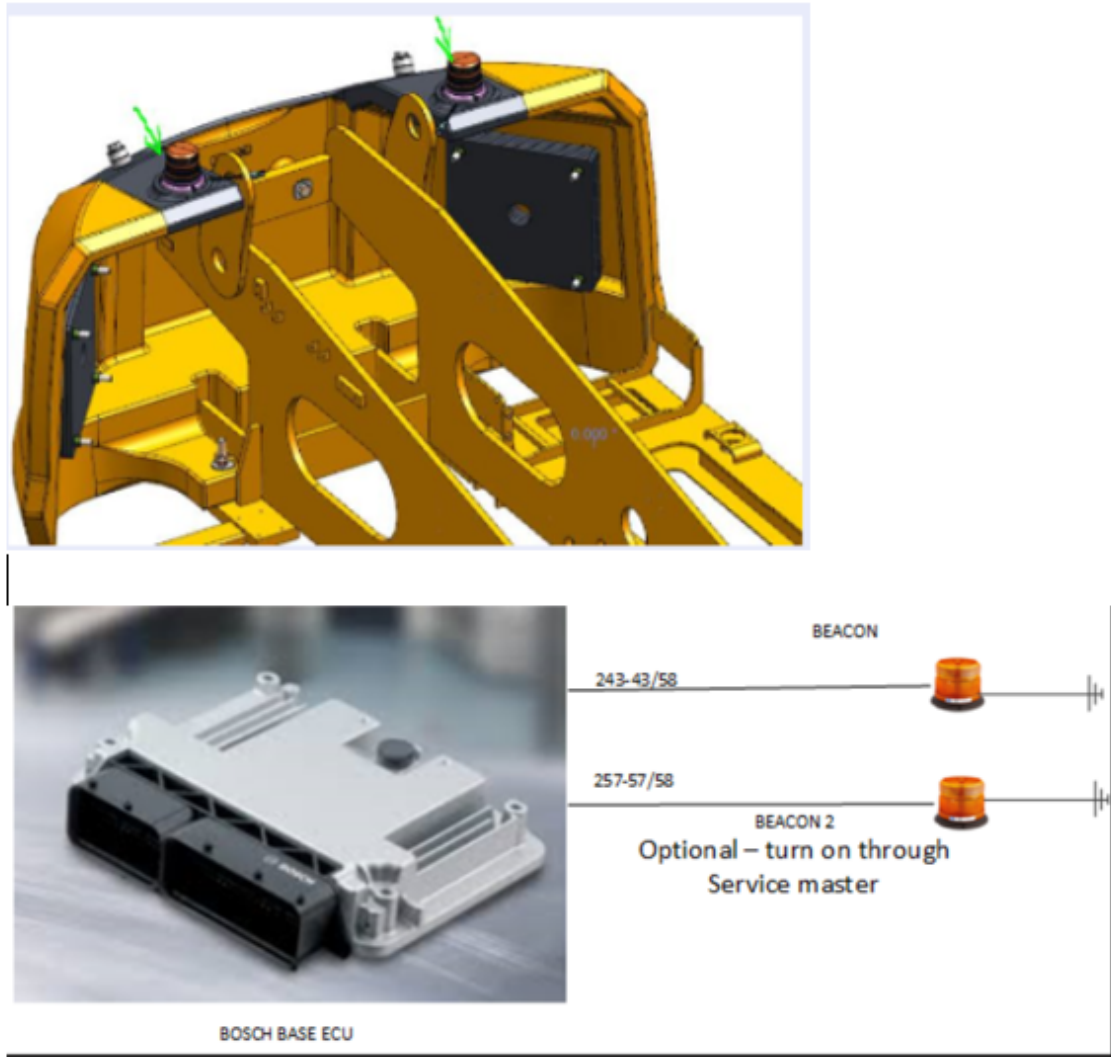


Platform control valve is connected at output of Base ECU . This valve contains Jib /Platform rotate selection solenoid .

4.5 Beacon

Following functions are the inputs for enabling the beacon

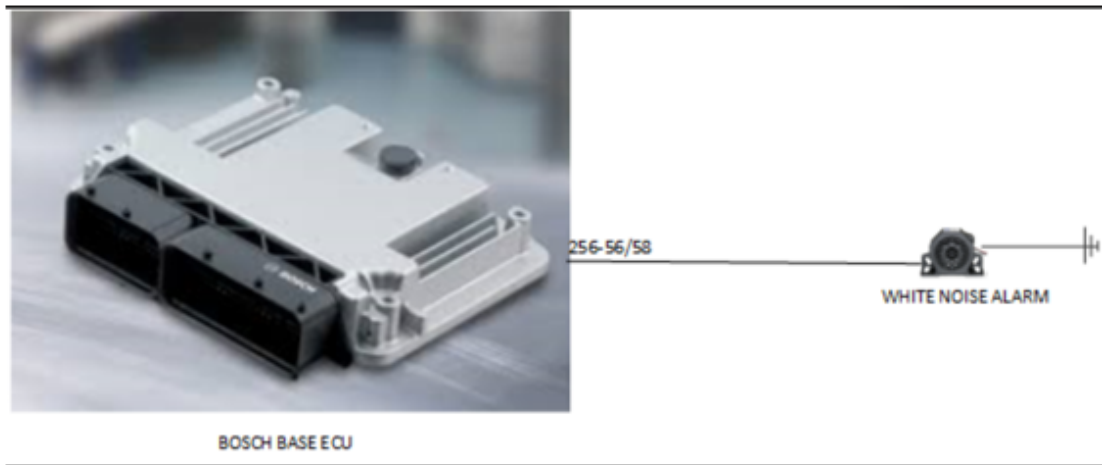
1. Drive Function
2. Steer Function
3. Telescopic Boom lower
4. Telescopic retract
5. Slew



4.6 White Noise Alarm

Following functions are the inputs for enabling the White Noise alarm

1. Drive Function
2. Steer Function
3. Telescopic Boom lower
4. Telescopic retract
5. Slew



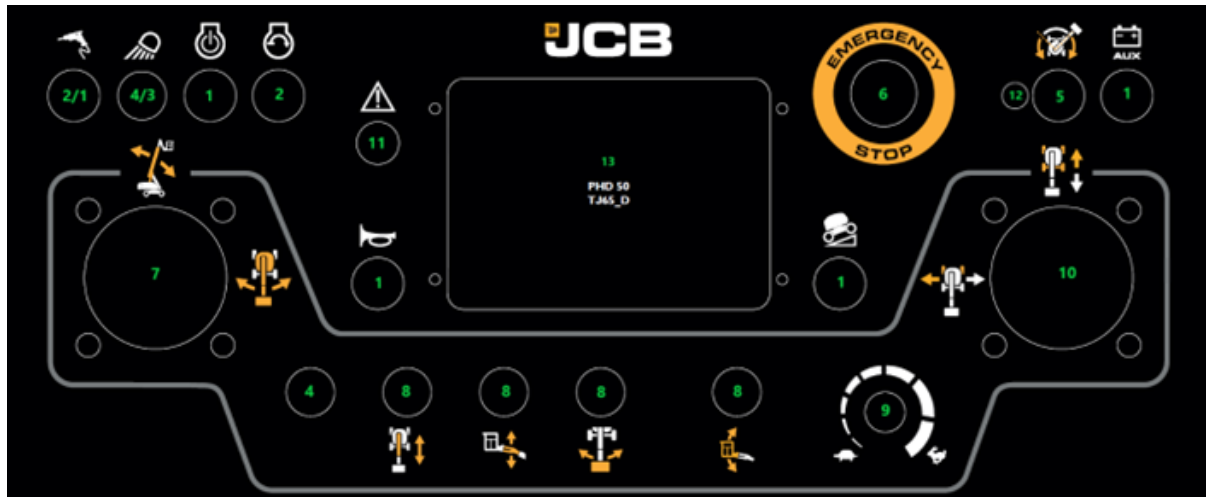
The white noise alarm can be enabled or disabled from the display menu or Machine options tab in ServiceMaster Setup tool and shall retain its current state even after ignition cycle.

4.7 Base Control Panel



Item Number	Description
1	Ignition Key with 455 key; ON/OFF
2	E-Stop
3	Horn Push Button/Engine Start Push Button
4	Toggle Switches (Slew, Main Boom, Tele Boom, Jib, Platform rotate & levelling operations)
5	Enable/ Override Switches
	ON-ON
6	Base Display

4.8 Platform Control Panel



Item#	Description
1	Generator Push Button (White)/ AUX pump Push Button (White)/

	Engine start Push Button (White)/ Horn Push Button (white)/ High Torque Push Button (White)
2	Blanking Cap, Generator Push Button/ Blanking Cap, Push button Auto
3	Work light switch, platform
4	Blanking Cap, Work light switch, platform/ Blanking Cap
5	Slew acknowledgement Push Button (yellow)
6	Emergency Stop (2 x NC)
7	Main boom Lift / Slew Joystick
8	Telescope boom Extend/Retract switch Jib up/ Down Switch Platform rotate left/right switch Platform levelling up/Down Switch
9	Potentiometer
10	Driving/ Steer Joystick
11	Fault indicator LED (Red)
12	Slew Acknowledgement LED (Yellow)
13	Platform Display

4.9 Potentiometer

Function

The potentiometer is used to control the speed of each function from the platform control panel. The output from potentiometer is from 0V min – 5.15V max

The potentiometer shall only affect the controls at the platform except steer. The functions affected shall be:

1. Jib up/down (Raise/Lower)
2. Platform level
3. Platform rotate
4. Telescope extend / retract
5. Drive forward/ Reverse
6. Slew
7. Telescopic Boom Up/down



POTENTIOMETER

4.10 Base/Platform Selection switch

Function

Base/ Platform selection switch makes the decision of whether the base or platform operating station become available for operation. Default position is the platform, this is the main operating point. The input shall be 10V when active and OC when in-active

If the platform controls are in use, and if the base selector is changed to base, then:

- The platform controls shall be disabled, and the warning LED should be ON.
- At the platform and base displays, User Caution icon is flashing until the platform controls are released.

The control shall be passed to base control station and base controls shall be enabled when pressed.

If a base control function switch is pressed before enabling the base selection switch, then the operator error shall be activated after 1 second and operation from the Base ECU shall be ignored. If the function switch is released, warning LED shall be OFF and User Caution icon shall be cleared.

Base Functions which require enable

- Slew - Left & Right
- Main Boom - Raise & Lower
- Telescopic boom - Extend & Retract
- Jib - Raise & Lower
- Platform rotate - Left & Right
- Platform level - Raise & Lower

The platform selection switch & foot pedal shall act as a platform enable status



Platform Functions which require platform enable:

- Slew - Left & Right
- Main Boom - Raise & Lower
- Telescopic boom - Extend & Retract
- Jib - Raise & Lower
- Platform rotate - Left & Right
- Platform level - Raise & Lower
- Travel - Forward & Reverse
- Steer - Left & Right
- Slew acknowledge switch - On/Off

Electric pump - On/Off



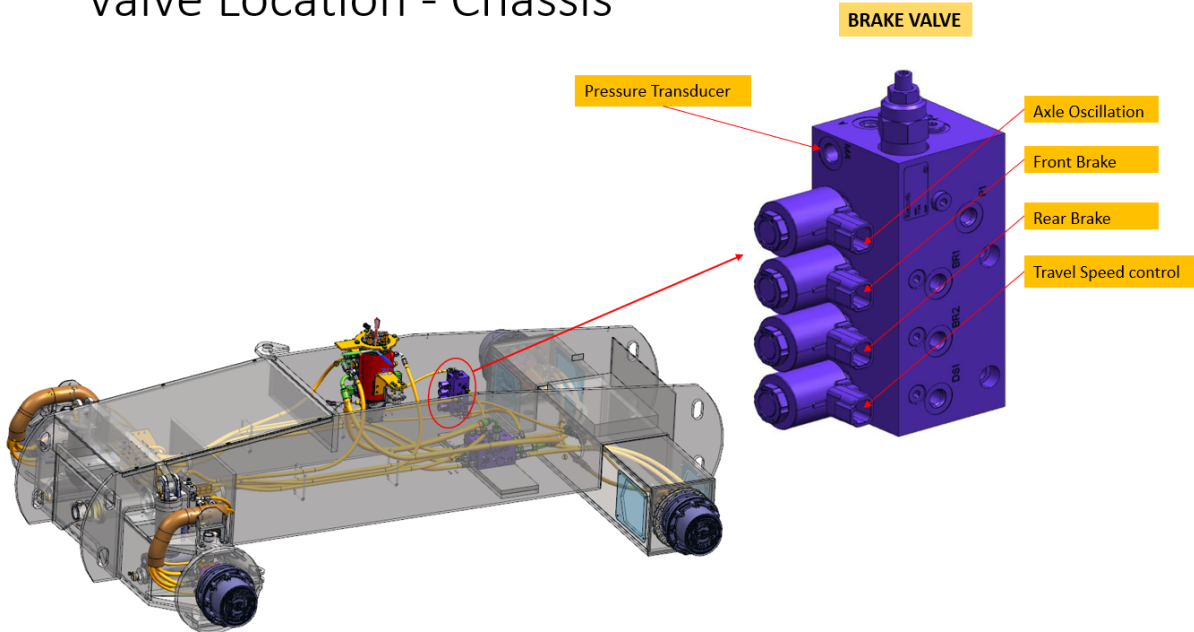
BASE ENABLE SWITCH

Solenoid Locations

5 Solenoid Locations

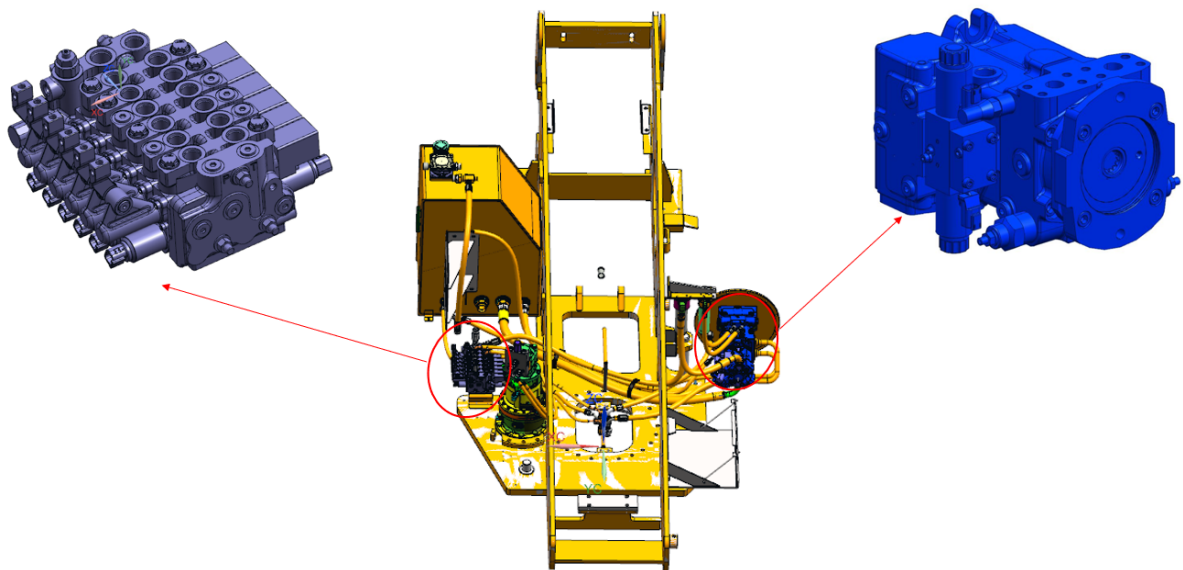
5.1 Solneoid - Chassis

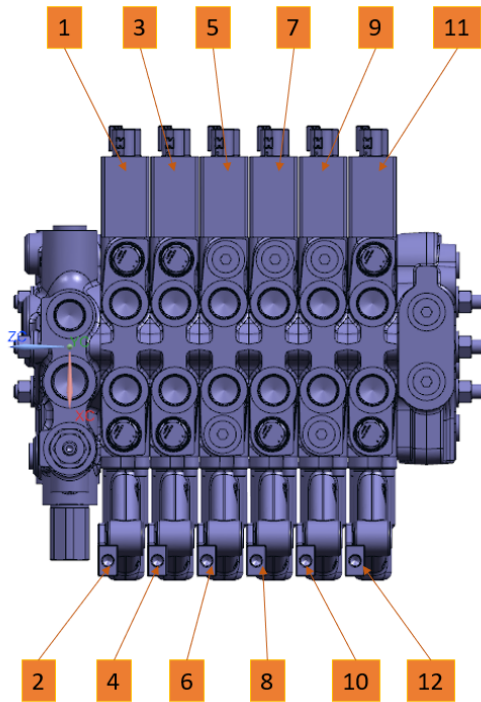
Valve Location - Chassis



5.2 Solenoid -Turntable

Valve & Pump Location – Turntable

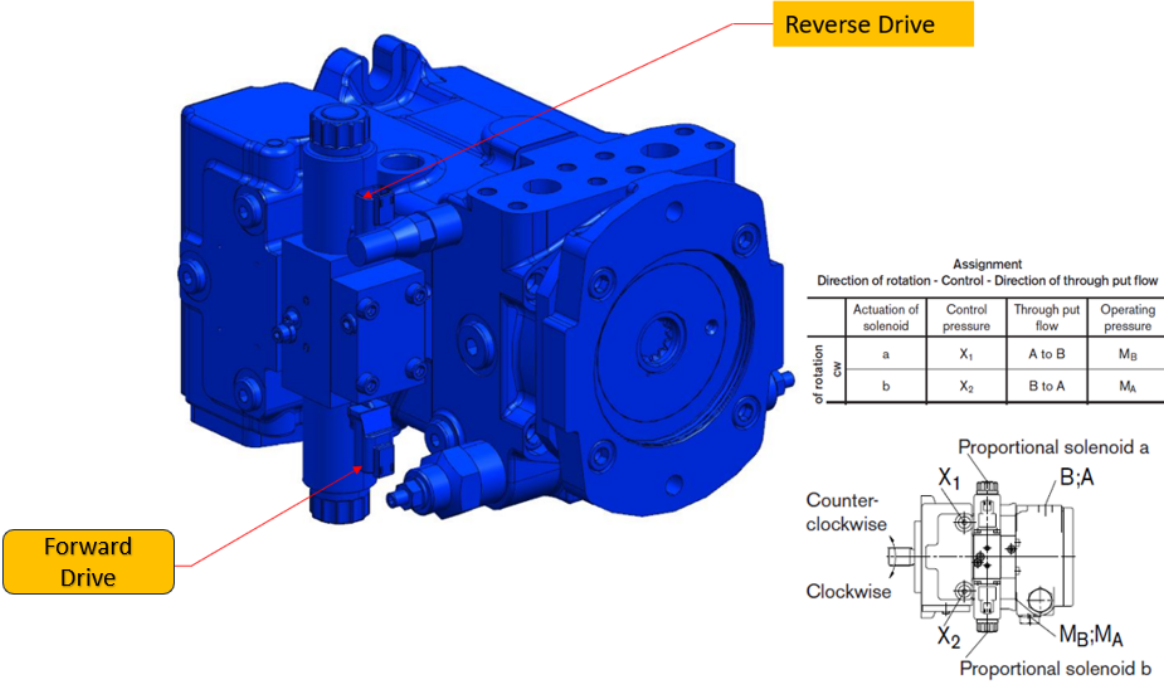




Solenoids and their functions

1. Telescopic boom out
2. Telescopic Boom in
3. Boom up
4. Boom down
5. Slew CW
6. Slew CCW
7. Steering Left
8. Steering Right
9. Platform control (jib up)/(Platform rotate CW)
10. Platform (jib down)/(Platform rotate CCW)
11. Levelling Cylinder up
12. Levelling cylinder down

TRANSMISSION PUMP CONTROL

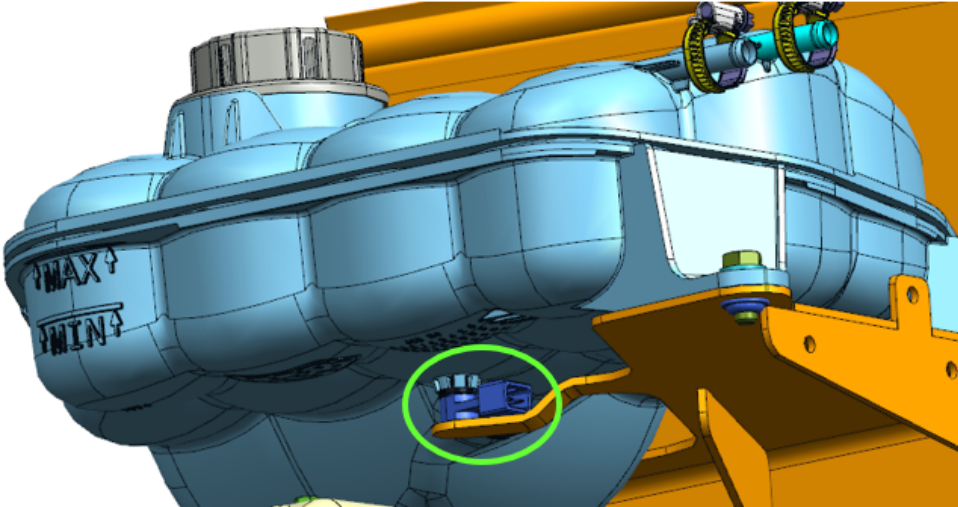
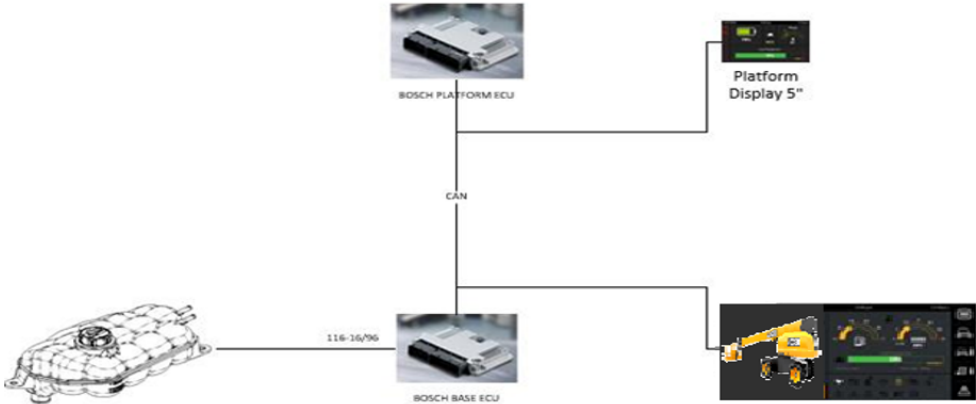


Sensors

6 Sensors

Enter topic text here.

6.1 Coolant Level Sensor

Component :	Coolant Level Sensor
Function:	The Coolant level Sensor is used to monitor the coolant level and warn operator when the level is lower than threshold.
Location:	Coolant level sensor is connected inside the coolant tank.
Location IMG:	
Signal:	Inactive Low coolant warning = 0V Low coolant warning =3.3V
Wires & Connectors IMG:	

Internal Electrical Schematic IMG:	
Testing:	1. Turn the Ignition ON 2. Verify the Coolant Level pin voltage.
Expected Values:	Coolant Level Sensor 1. coolant greater than 25% = 0V 2. coolant less than 25% = 3.3V
Related Fault Codes:	B1421-2F B1232-17

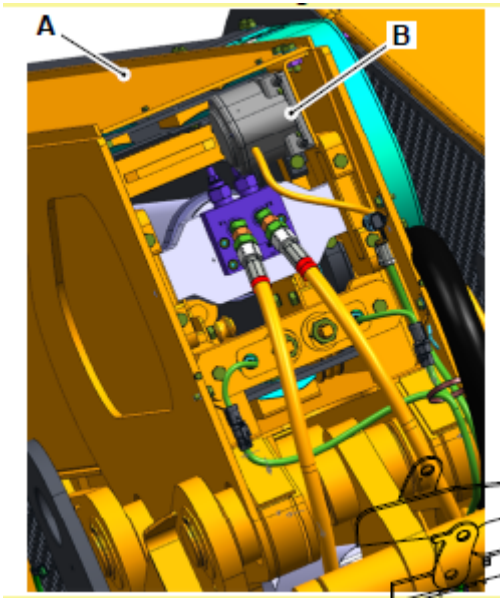
6.2 Boom Sensor

Function

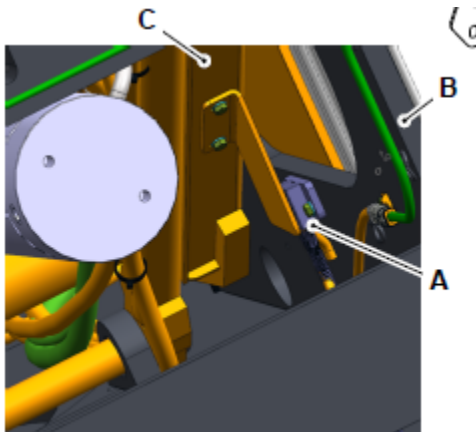
Boom sensor is used to measure boom length and angle. The following are the boom sensors

- 1) Boom Extend / Retract Angle sensor
- 2) Main Boom Stowed position sensor





A	Boom Extract / retract angle sensor
B	Telescopic Boom



A	Main Boom Stowed position sensor
B	Turntable structure
C	Folding Arm

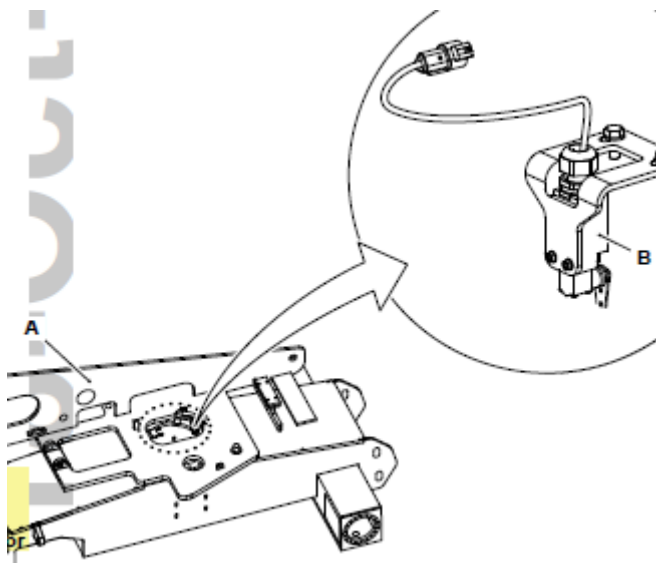
6.3 Limit Switch

Function

There are 2 limit switches fitted in this machine

1) Main Boom lower limit switch - This switch shall detect when the Main Boom lift function is fully stowed.

2) Slew position limit switch - Base ECU shall determine the slew position by reading the limit switch inputs

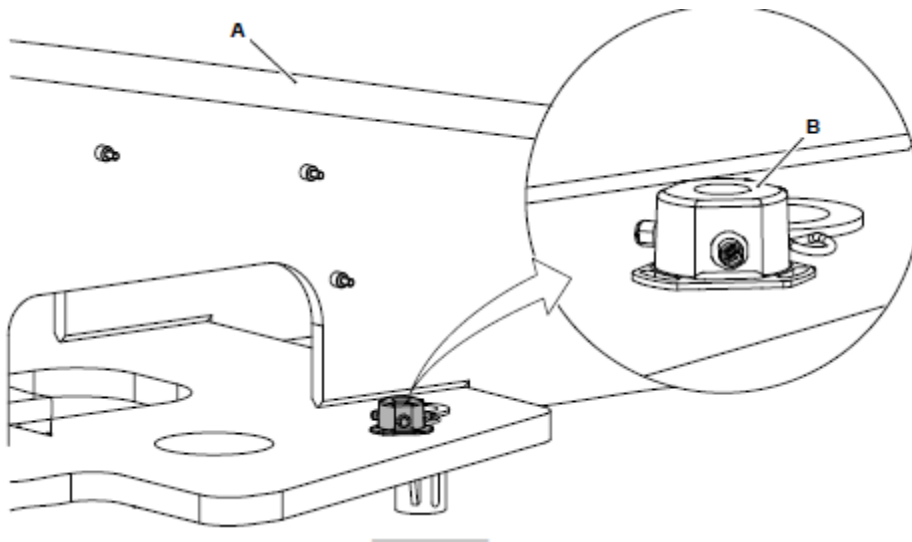
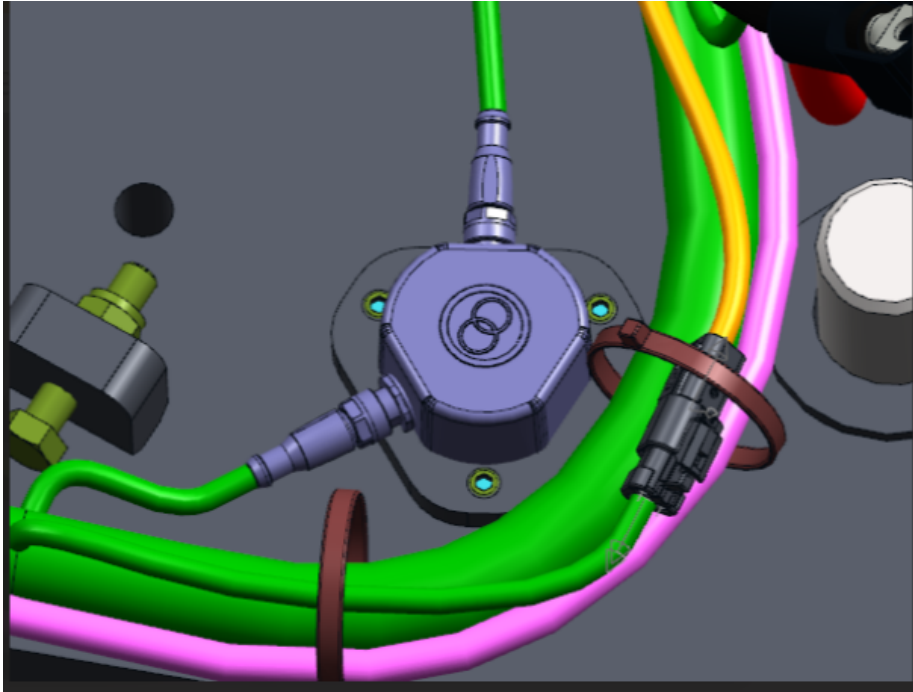


A	Turntable structure
B	Slew position limit switch

6.4 Tilt Sensor

Function

The tilt sensor is activated when the machine chassis is beyond the rated slope for lifting the platform. It indicates the angle of the chassis .

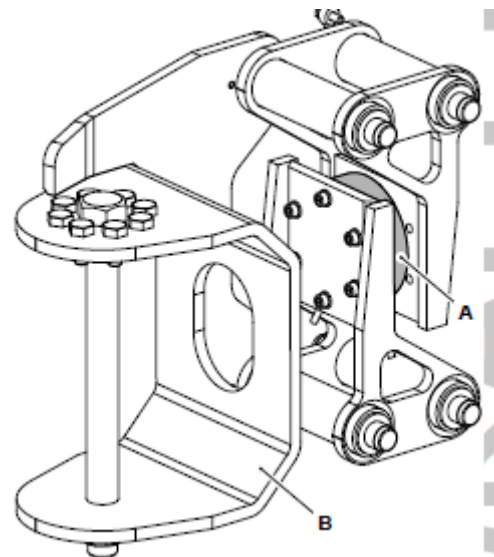
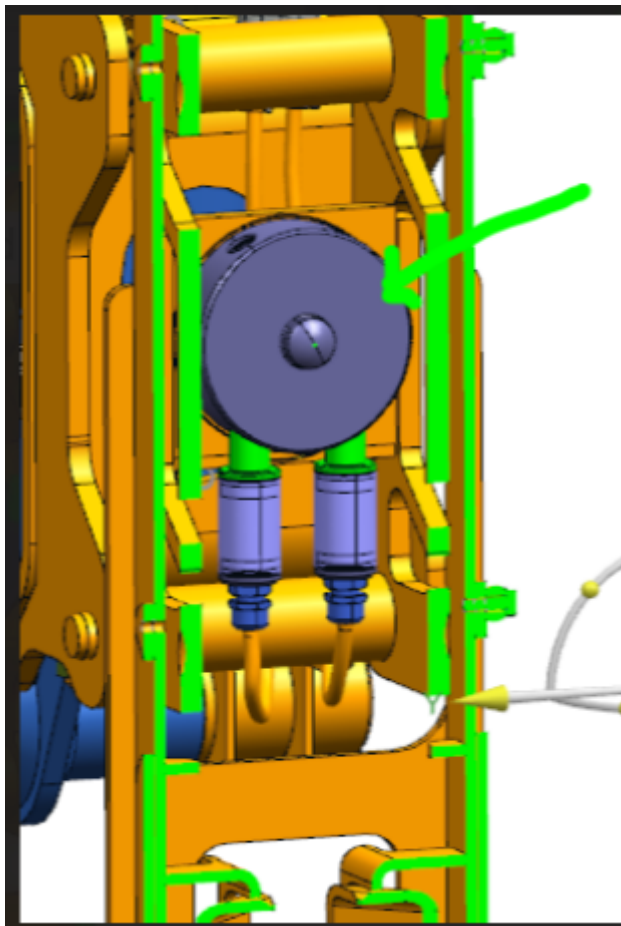


A	Turntable structure
B	Tilt Sensor

6.5 Weight Sensor

Function

The platform weight sensor monitors the weight in the platform to detect if the platform is loaded with more than the rated load.



A	Weight Sensor
B	Kingpost

Location

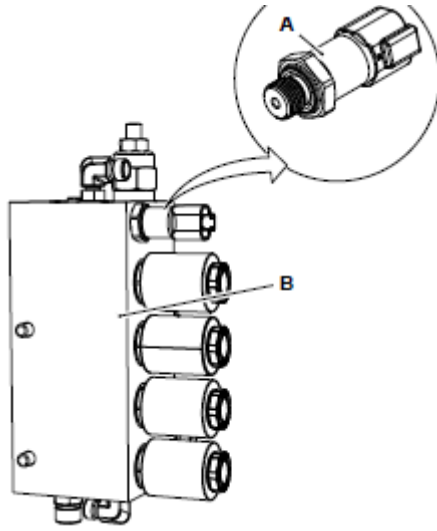
The load cell is located near the platform control station



6.6 Oscillating axle Pressure Sensor

Function

Oscillating axle pressure sensor monitors the control system of the oscillating axle, to check that the axle is locked to stabilize the machine.

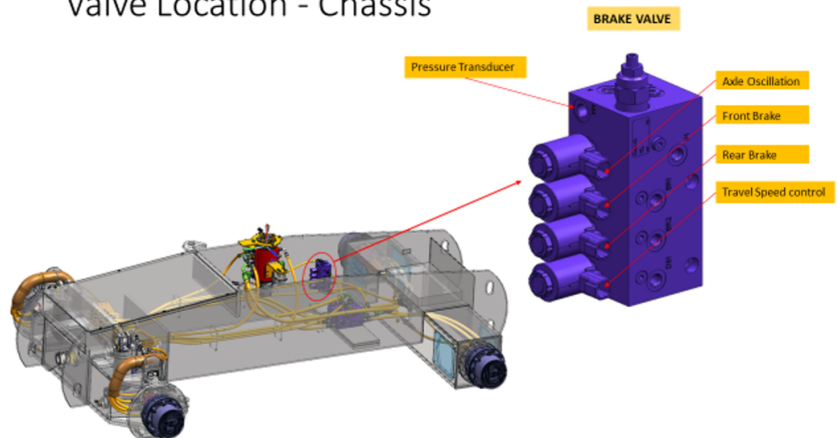


A	Pressure Sensor
B	Brake Valve



oscillating axle pressure sensor

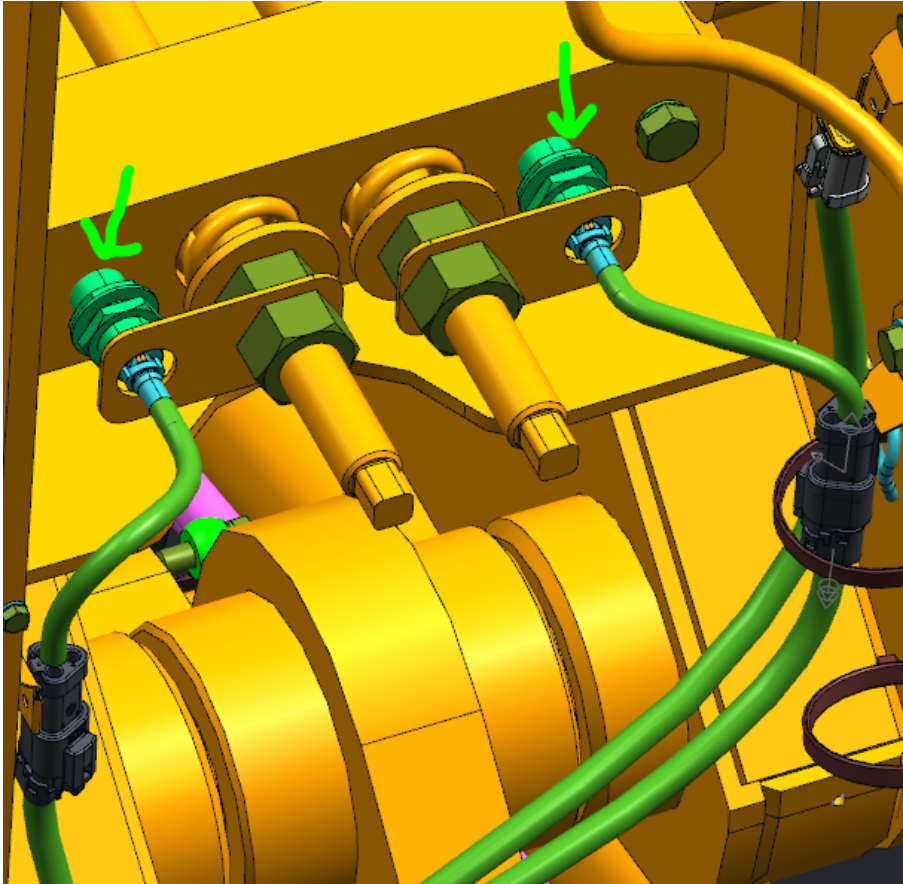
Valve Location - Chassis



6.7 Telescopic Wire sensor

Function

The wire rope switch is used to detect the Telescopic Wire Rope is intact or snapped. Wire sensor is connected near the Main boom end point



Machine Calibration

7 Machine Calibration

Tilt Angle Sensor Calibration
Load Calibration
Main Boom angle sensor calibration
Telescopic Boom Length Calibration
Boom length Calibration

7.1 Tilt Sensor Calibration

Calibration through Machine display

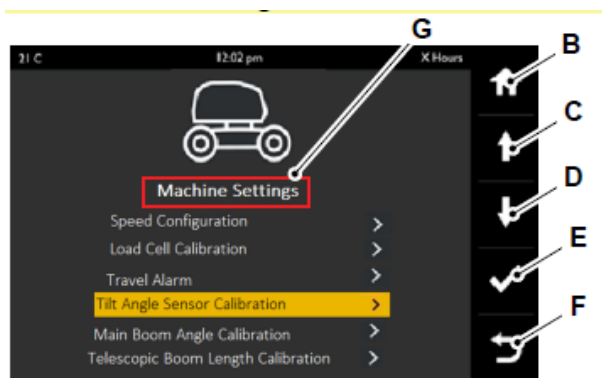
1. Park the machine on firm, level ground in specified angle for each required direction.
Angle: 0°



2. On the machine home page, select 'Machine control setup' to open 'Machine Settings'.



3. Use the Up/Down scroll icon to choose 'Tilt Angle Sensor Calibration' in the menu, and click select icon.



B - Home Page

C - Up Scroll icon

D - Down Scroll Icon

E - Select Icon

F - Return Icon

G- Machine Settings

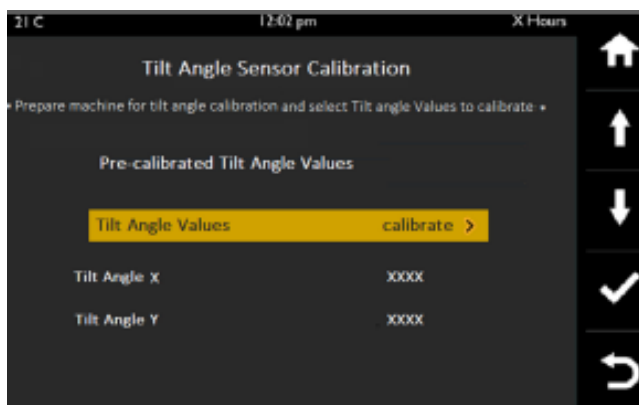
4. The 'Tilt Angle Sensor Calibration' screen appears which displays the 'Pre-calibrated Tilt Angle Values'.

4.1 The specified preset values for Tilt angle X and Tild angle Y will appear on the screen .

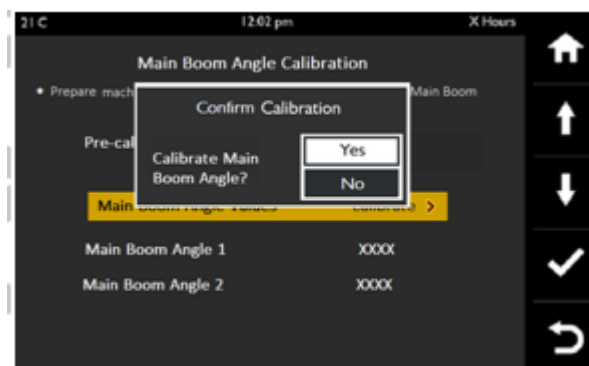
Angle:0



5. Select 'Calibrate' from the drop-down menu of the 'Tilt Angle values' field.

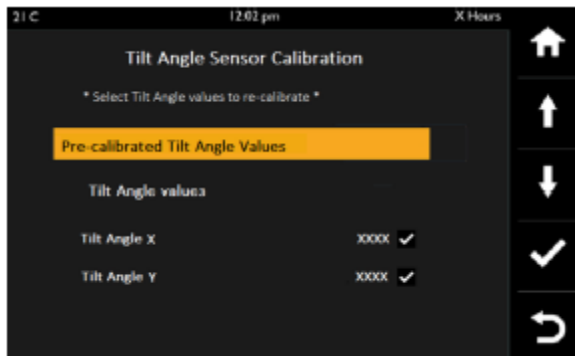


6. The 'Confirm Calibration' screen appears.



6.1 If the operator selects 'Yes' for 'Calibrate Tilt Angle?' field, it will save the live values of the 'Tilt Angle X' and 'Tilt Angle Y' in order to proceed with the calibration and go to step 7

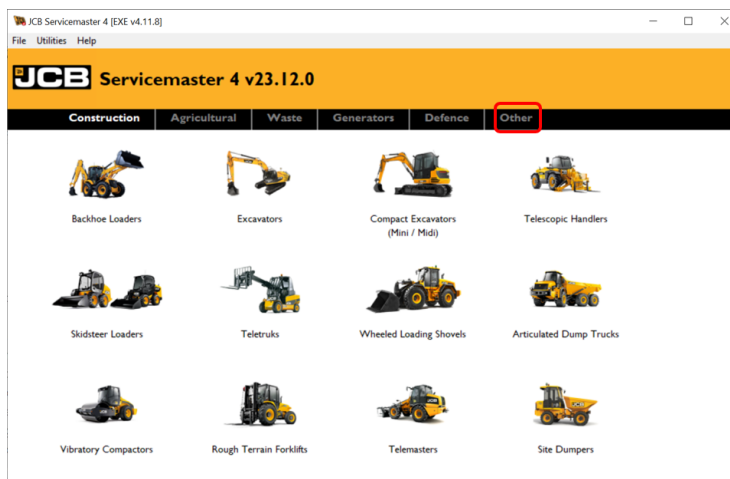
7. The newly set 'Tilt Angle X' and 'Tilt Angle Y' values will appear on the screen with the 'Tick' mark.



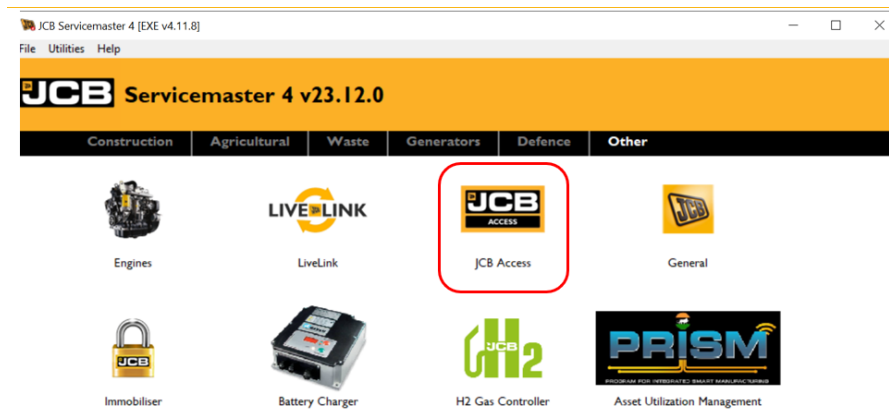
8. If the tilt angle calibrated set acknowledge message is not received within the specified duration, then the display shows 'Cross' mark.
Duration: 4s

Tilt angle sensor Calibration through Servicemaster

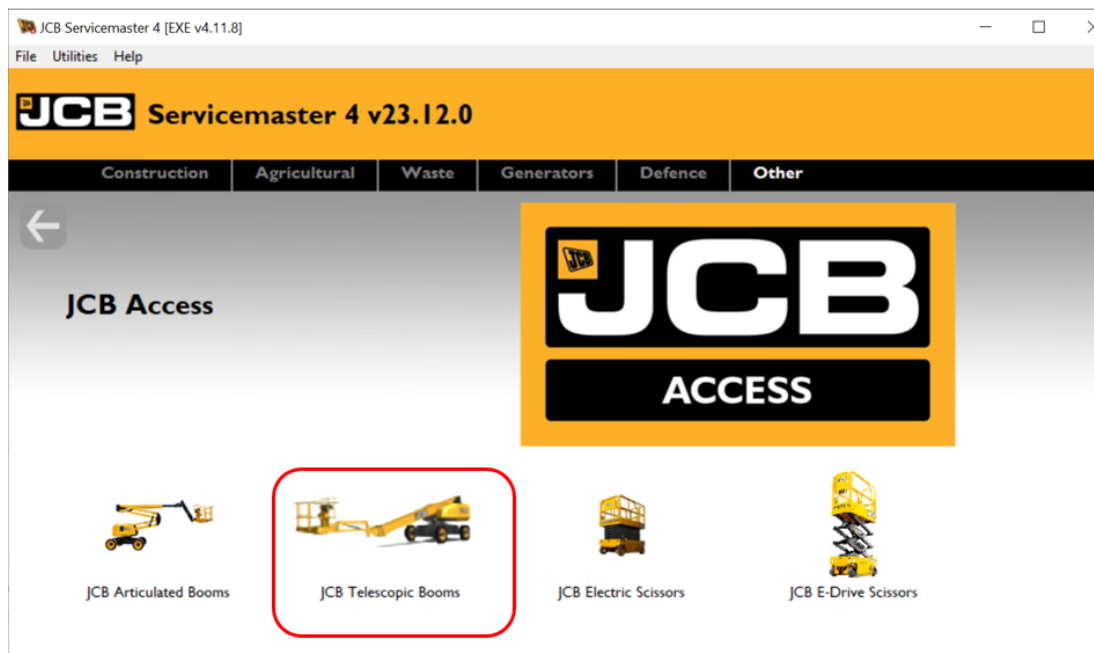
1. Park the machine on flat , level ground
2. Make the machine safe
3. Connect the Servicemaster tool
4. In the servicemaster , click and select "Other"



5. Click on the JCB Access



6. Click on Telescopic Boom & then T65 Diesel



7. Click on Vehicle Set up

8. Select T65D in the drop down menu of Model

JCB ACCESS - TJ SERIES SETUP TOOL V2.24 [EXE v4.11.8]

File Utilities

Connect Disconnect Unlock

1. MACHINE IDENTIFICATION | 2. MACHINE OPTIONS | 3. CONFIGURATION | 4. RAMPS | 5. JOYSTICK SETUP | 6. LOAD CAL | BOOM_LENGTH_CALIBRATION | 12. ANGLE SENSOR CAL | TILT_SENSOR_CALIBRATION | < | >

Instruction: Please enter Vin No. Instruction: Check correct model number is present

VIN # Model # T65D

CAN Pairing Acknowledgement

☐ Bosch base ecu ☐ Bosch platform ecu ☐ Engine ecu ☐ Livelink ecu ☐ Display ecu

Build Date 10/01/2024 Last Updated Current Date 10/01/2024 Current Time 18:22:30

Base Software Platform Software

Software version Software version

Software part no. NA Software part no. NA

Status

Read Write

Read: this will read configuration from the machine Write: this will write the configuration to the machine

Communication Status

Next >>

9. Enter Valid VIN , for eg: RAJA3016JN3149005 in VIN# field and then click Write to flash the VIN .

JCB ACCESS - TJ SERIES SETUP TOOL V2.24 [EXE v4.11.8]

File Utilities

Connect Disconnect Unlock

1. MACHINE IDENTIFICATION | 2. MACHINE OPTIONS | 3. CONFIGURATION | 4. RAMPS | 5. JOYSTICK SETUP | 6. LOAD CAL | BOOM_LENGTH_CALIBRATION | 12. ANGLE SENSOR CAL | TILT_SENSOR_CALIBRATION | < | >

Instruction: Please enter Vin No. Instruction: Check correct model number is present

VIN # RAJA3016JN3149005 Model # T65D

CAN Pairing Acknowledgement

☐ Bosch base ecu ☐ Bosch platform ecu ☐ Engine ecu ☐ Livelink ecu ☐ Display ecu

Build Date 11/01/2024 Last Updated Current Date 11/01/2024 Current Time 10:12:15

Base Software Platform Software

Software version Software version

Software part no. NA Software part no. NA

Status

Read Write

Read: this will read configuration from the machine Write: this will write the configuration to the machine

10 . Click OK once the VIN Validation pop up VIN Valid - Ok appears

The screenshot shows the '1. MACHINE IDENTIFICATION' tab of the JCB T65D calibration software. The 'VIN #' field is highlighted with a red box and contains the value 'RAJA3016JH3149005'. The 'Model #' dropdown is set to 'T65D'. A 'VIN Validation' dialog box is open, displaying 'VIN valid -OK' and an 'OK' button. Below the dialog, the 'Status' section shows 'Read' and 'Write' buttons, with the 'Read' button highlighted by a red box. The 'Communication Status' field at the bottom indicates 'Validating VIN...'. The 'Next >>' button is visible in the bottom right corner.

11. Wait for communication status field to display "Writing Process Completed" to make sure that the VIN has been successfully written .

12. Clear the VIN# field and then click on "Read" to read back the VIN written .

The screenshot shows the same '1. MACHINE IDENTIFICATION' tab. The 'VIN #' field is now empty and highlighted with a red box. The 'Status' section shows the 'Read' button highlighted with a red box. The 'Communication Status' field at the bottom now displays 'Reading Process Completed'. The 'Next >>' button is visible in the bottom right corner.

13 . Wait for the communication status field to display "Reading Process Completed"

1. MACHINE IDENTIFICATION | 2. MACHINE OPTIONS | 3. CONFIGURATION | 4. RAMPS | 5. LOAD CAL | 6. BOOM_LENGTH_CALIBRATION | 12. ANGLE SENSOR CAL | **TILT_SENSOR_CALIBRATION** | 7. FUNCTION SPEED

Instruction: Please enter Vin No. Instruction: Check correct model number is present

VIN # ? Model # ?

CAN Pairing Acknowledgement

☒ Bosch base ecu ☐ Bosch platform ecu ☐ Engine ecu ☐ Livelink ecu ☐ Display ecu

Build Date Last Updated Current Date Current Time

Base Software Platform Software

Software version Software version

Software part no. Software part no.

Status

 Read: this will read configuration from the machine  Write: this will write the configuration to the machine

Communication Status
Reading Process Completed

Next >>

14 . Click on Tilt Sensor Calibration

1. MACHINE IDENTIFICATION | 2. MACHINE OPTIONS | 3. CONFIGURATION | 4. RAMPS | 5. LOAD CAL | 6. BOOM_LENGTH_CALIBRATION | 12. ANGLE SENSOR CAL | **TILT_SENSOR_CALIBRATION** | 7. FUNCTION SPEED

Save Tilt Angle

Filtered values

Tilt Angle X

Tilt Angle Y

Calibrated Values

Tilt Angle X

Tilt Angle Y

Status

Communication Status
Reading Process Completed

<< Prev Next >>

15. Make sure that the telescopic boom is fully retracted and main boom is fully lowered

16 . Set the 'Tilt Angle X' and 'Tilt Angle Y' values to zero position



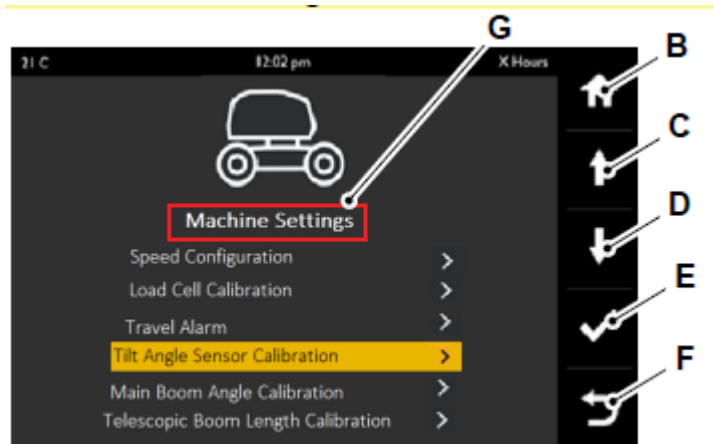
7.2 Load Cell Calibration

Setting the Load Cell Calibration

1. On the machine home page , select Machine control Set up to open machine settings .

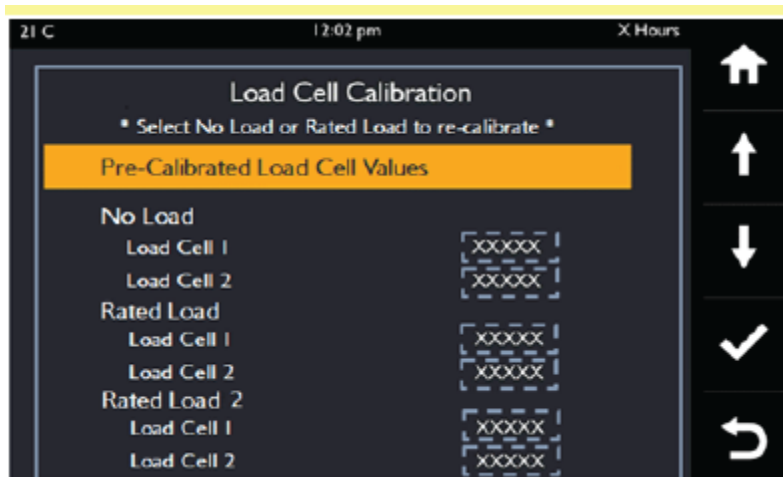


2. Use Up/ Down scroll icon to choose "Load cell calibration in the menu , and click select icon .

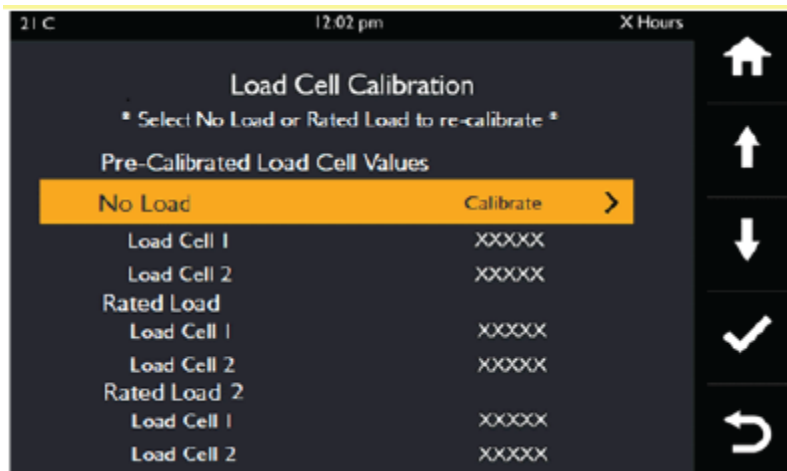


- B** Home page icon
- C** Up scroll icon
- D** Down scroll icon
- E** Select icon
- F** Return icon
- G** Machine settings

3. Use the up/down scroll icon and select the "No Load" or "Rated Load" depending on the calibration to be carried out .

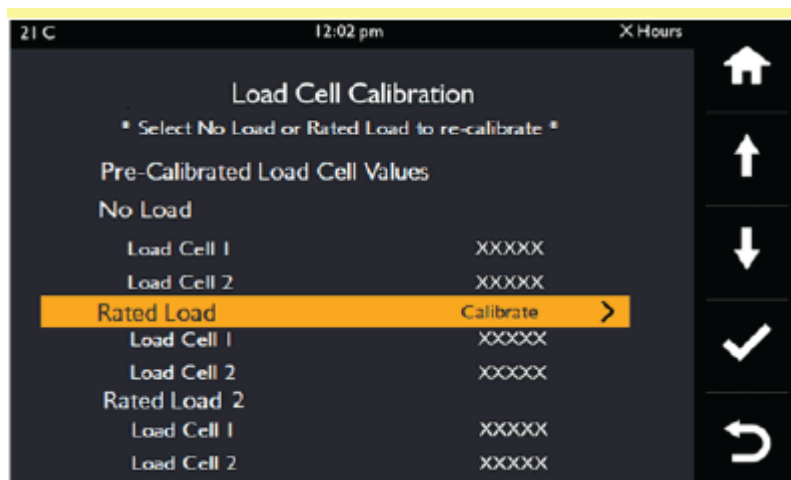


3.1 Make sure there is no load at the platform when you select "No Load" calibration .



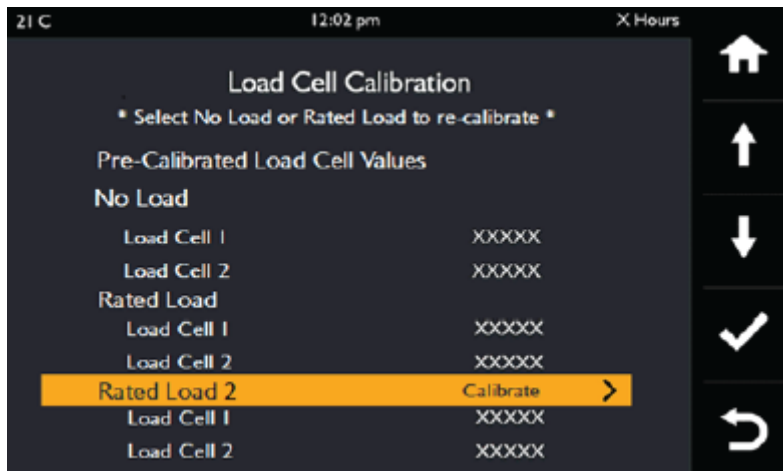
3.2 Make sure the load of specified weight is placed on the platform when you select "Rated Load" calibration .

Weight : 300Kgs



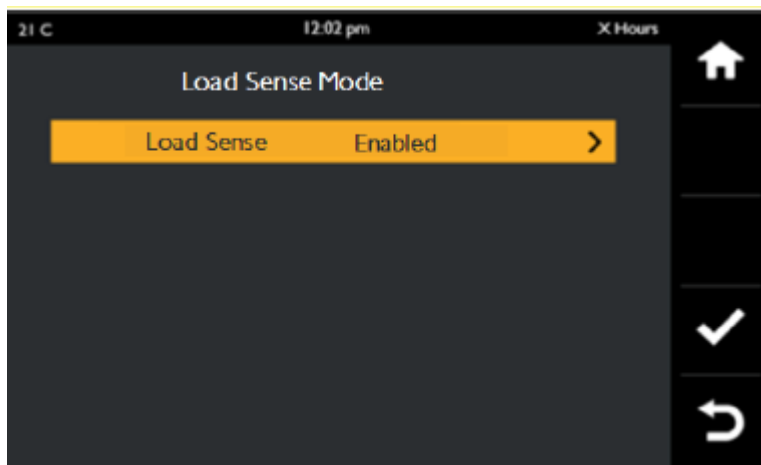
3.3 Make sure that load of specified weight is placed on the platform when you select "Rated Load2" calibration .

Weight 450 Kgs

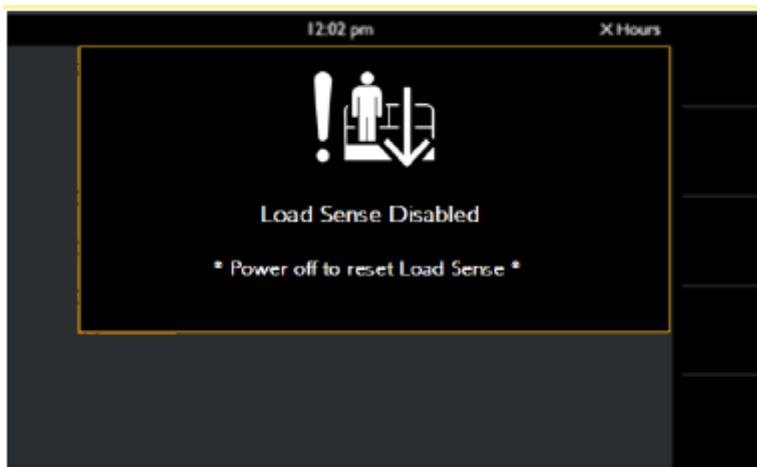


Setting the Load sense mode

1. On the machine home page ,select "Machine control setup" to open machine settings
2. Use up/down scroll icon to choose "Load sense mode" in the menu and click select icon
3. Use up/down scroll icon to enable or disable the load sense mode



4. Use the select icon to confirm and save the desired setting
5. When disabled is selected , Load sense disabled will be displayed on the screen .

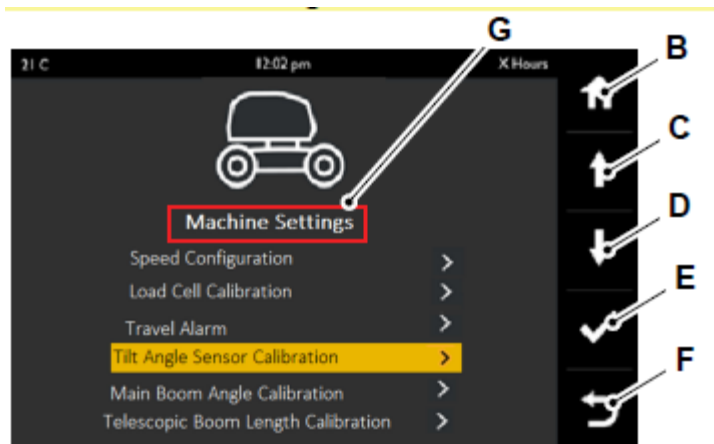


7.3 Main Boom Angle Sensor Calibration

1. On the machine home page , select "Machine control setup' to open 'Machine Settings' .

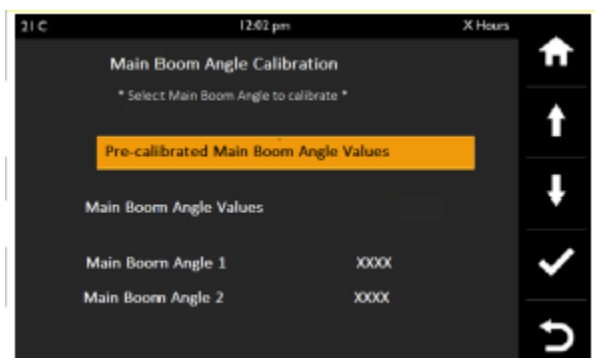


2. Use the Up/Down scroll icon to choose 'Main Boom Angle Calibration' in the menu, and click select icon.



- B** Home page icon
- C** Up scroll icon
- D** Down scroll icon
- E** Select icon
- F** Return icon
- G** Machine settings

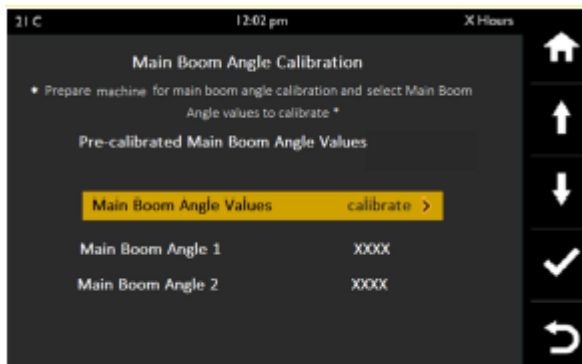
3. The 'Main Boom Angle Sensor Calibration' screen appears which displays the 'Pre-calibrated Main Boom Angle Values'.



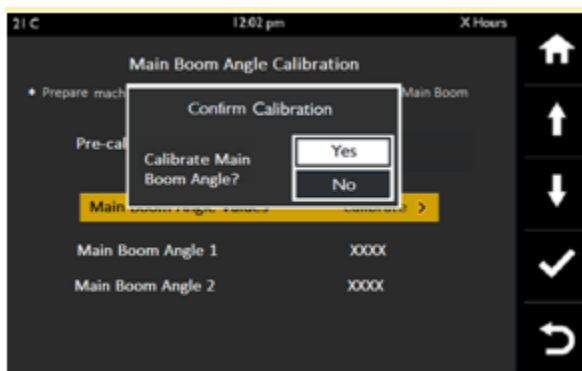
3.1 The specified preset values for Main boom angle 1 and Main boom angle 2 will appear on the screen

Angle :0°

4. Select Calibrate from the drop -down menu of the Main Boom Angle values field .



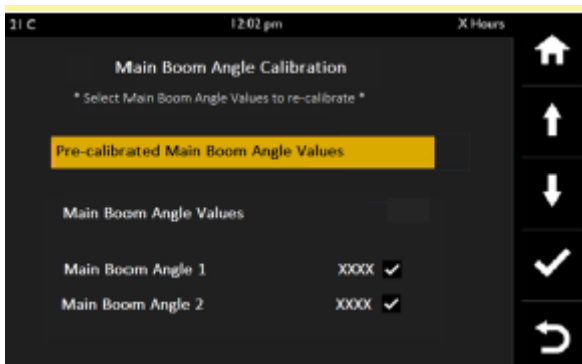
5. The confirm Calibration screen appears



5.1 If the operator selects 'Yes' for 'Calibrate Main Boom Angle?' field, it will save the live values of the 'Main Boom Angle 1' and 'Main Boom Angle 2' in order to proceed with the calibration and go to step 6

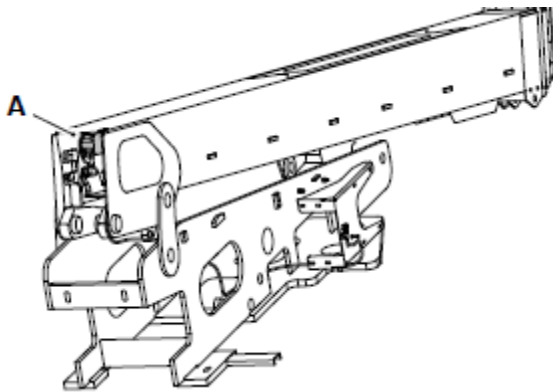
5.2 If the operator selects 'No' for 'Calibrate Main Boom Angle?' field, the screen will return to 'Pre-calibrated Main Boom Angle Values'. Refer to step 3.

6. The newly set 'Main Boom Angle 1' and 'Main Boom Angle 2' values will appear on the screen with the 'Tick' mark.



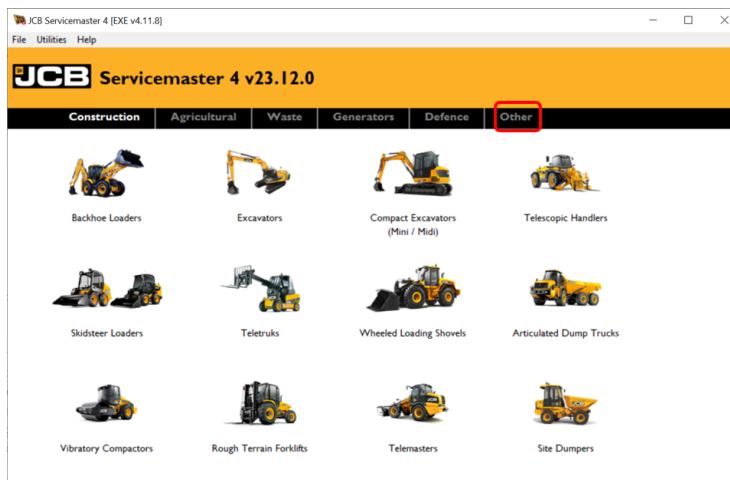
7. If the main boom angle calibrated set acknowledge message is not received within the specified duration, then the display shows 'Cross' mark.
Duration: 4s

Main Boom Angle Sensor Calibration - Service Master

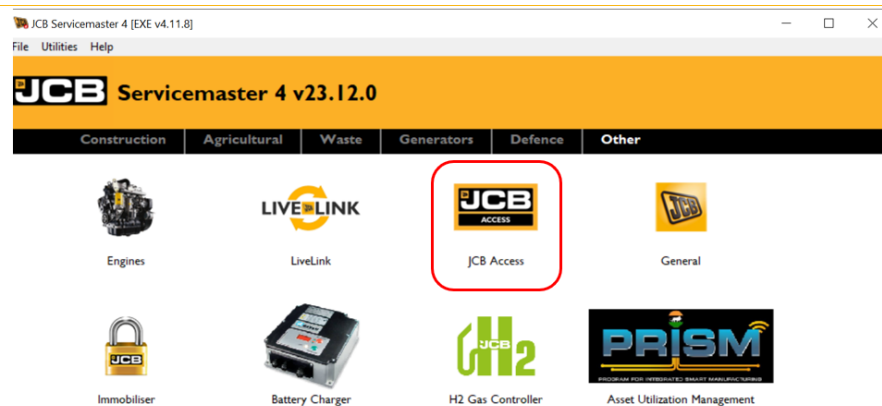


A Boom Length & Angle Sensor

1. Park the machine on flat, level ground.
2. Make the machine safe
3. Connect the servicemaster tool
4. In the servicemaster click and select other



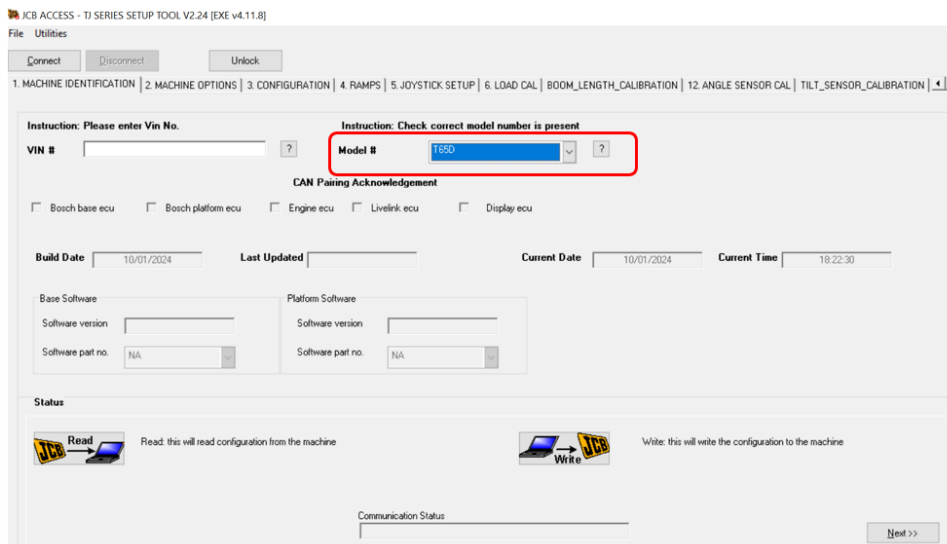
5. Click on the JCB Access



6. Click on Telescopic Boom & then T65 Diesel

7. Click on Vehicle Set up

8 . Select T65D in the drop down menu of Model



9. Enter Valid VIN , for eg: RAJA3016JN3149005 in VIN# field and then click Write to flash the VIN .

JCB ACCESS - TJ SERIES SETUP TOOL V2.24 [EXE v4.11.8]

File Utilities

1. MACHINE IDENTIFICATION | 2. MACHINE OPTIONS | 3. CONFIGURATION | 4. RAMPS | 5. JOYSTICK SETUP | 6. LOAD CAL | BOOM_LENGTH_CALIBRATION | 12. ANGLE SENSOR CAL | TILT_SENSOR_CALIBRATION | 4 | ▶

Instruction: Please enter Vin No. Instruction: Check correct model number is present

VIN # ? Model # ?

CAN Pairing Acknowledgement

☐ Bosch base ecu ☐ Bosch platform ecu ☐ Engine ecu ☐ Livelink ecu ☐ Display ecu

Build Date Last Updated Current Date Current Time

Base Software Platform Software

Software version Software version

Software part no. Software part no.

Status

 Read: this will read configuration from the machine  Write: this will write the configuration to the machine

10 . Click OK once the VIN Validation pop up VIN Valid - Ok appears

1. MACHINE IDENTIFICATION | 2. MACHINE OPTIONS | 3. CONFIGURATION | 4. RAMPS | 6. LOAD CAL | BOOM_LENGTH_CALIBRATION | 12. ANGLE SENSOR CAL | TILT_SENSOR_CALIBRATION | 7. FUNCTION SPEED | ▶

Instruction: Please enter Vin No. Instruction: Check correct model number is present

VIN # ? Model # ?

CAN Pairing Acknowledgement

☐ Bosch base ecu ☐ Bosch platform ecu ☐ Engine ecu ☐ Livelink ecu ☐ Display ecu

Build Date Last Updated Current Date Current Time

Base Software Platform Software

Software version Software version

Software part no. Software part no.

Status

 Read: this will read configuration from the machine  Write: this will write the configuration to the machine

VIN Validation

VIN valid -OK

OK

Communication Status

Validating VIN...

Next >>

11. Wait for communication status field to display "Writing Process Completed" to make sure that the VIN has been successfully written .

12. Clear the VIN# field and then click on "Read" to read back the VIN written .

1. MACHINE IDENTIFICATION | 2. MACHINE OPTIONS | 3. CONFIGURATION | 4. RAMPS | 5. LOAD CAL | 6. BOOM_LENGTH_CALIBRATION | 12. ANGLE SENSOR CAL | TILT_SENSOR_CALIBRATION | 7. FUNCTION SPEED

Instruction: Please enter Vin No. Instruction: Check correct model number is present

VIN # ? Model # ?

CAN Pairing Acknowledgement

☒ Bosch base ecu ☐ Bosch platform ecu ☐ Engine ecu ☐ Liveline ecu ☐ Display ecu

Build Date Last Updated Current Date Current Time

Base Software Platform Software

Software version Software version

Software part no. Software part no.

Status

 Read Read: this will read configuration from the machine  Write Write: this will write the configuration to the machine

Communication Status
Reading Process Completed

[Next >>](#)

13 . Wait for the communication status field to display "Reading Process Completed"

1. MACHINE IDENTIFICATION | 2. MACHINE OPTIONS | 3. CONFIGURATION | 4. RAMPS | 5. LOAD CAL | 6. BOOM_LENGTH_CALIBRATION | 12. ANGLE SENSOR CAL | TILT_SENSOR_CALIBRATION | 7. FUNCTION SPEED

Instruction: Please enter Vin No. Instruction: Check correct model number is present

VIN # ? Model # ?

CAN Pairing Acknowledgement

☒ Bosch base ecu ☐ Bosch platform ecu ☐ Engine ecu ☐ Liveline ecu ☐ Display ecu

Build Date Last Updated Current Date Current Time

Base Software Platform Software

Software version Software version

Software part no. Software part no.

Status

 Read Read: this will read configuration from the machine  Write Write: this will write the configuration to the machine

Communication Status
Reading Process Completed

[Next >>](#)

14 . Click on Angle Sensor Calibration

1. MACHINE IDENTIFICATION | 2. MACHINE OPTIONS | 3. CONFIGURATION | 4. RAMPS | 5. LOAD CAL | BOOM_LENGTH_CALIBRATION | **12. ANGLE SENSOR CAL** | TILT_SENSOR_CALIBRATION | 7. FUNCTION SPEED

Save Boom Angle

Actual Values		Calibrated Values	
Boom Angle 1	29	Boom Angle 1	29
Boom Angle 2	31	Boom Angle 2	31

15 . Make sure the telescopic boom is fully retracted and main boom is fully lowered

16. Set the 'Boom Angle 1' and 'Boom Angle 2' actual and calibrated values to 29 and 31 respectively

17 . Make sure the boom is at fully extended position and then click on 'Save Boom Length Extend' to calibrate.

1. MACHINE IDENTIFICATION | 2. MACHINE OPTIONS | 3. CONFIGURATION | 4. RAMPS | 5. LOAD CAL | BOOM_LENGTH_CALIBRATION | **12. ANGLE SENSOR CAL** | TILT_SENSOR_CALIBRATION | 7. FUNCTION SPEED

Save Boom Length Extend Save Boom Length Retract

Actual value		Calibrated values	
Boom Length 1	117	Extended Boom Length	244
Boom Length 2	0	Retracted Boom Length	0

Status

Communication Status
Reading Process Completed

<< Prev Next >>

18 . In the communication status field, 'Saving Process Completed' appears.

The screenshot displays the 'BOOM_LENGTH_CALIBRATION' tab within a machine's settings menu. At the top, a navigation bar lists various setup categories. Two buttons, 'Save Boom Length Extend' and 'Save Boom Length Retract', are visible. Below these, the 'Actual value' section shows 'Boom Length 1' at 117 and 'Boom Length 2' at 0. The 'Calibrated values' section shows 'Extended Boom Length' at 244 and 'Retracted Boom Length' at 0. A 'Status' section at the bottom indicates 'Communication Status' as 'Saving Process Completed'. Navigation buttons '<< Prev' and 'Next >>' are located at the bottom corners.

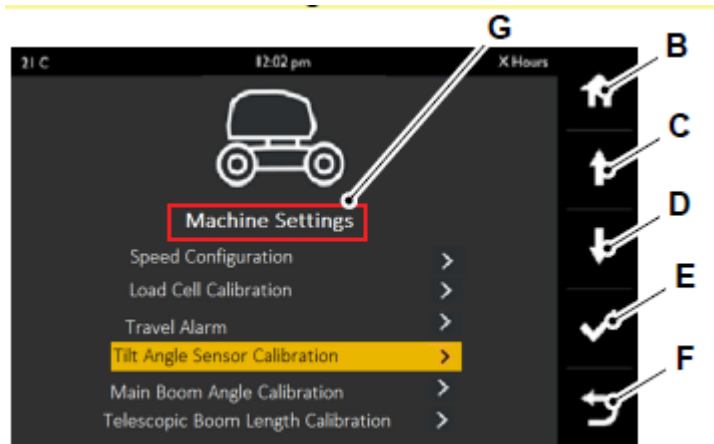
7.4 Boom Length Calibration

Telescopic Boom Length Calibration - Retract

1. On the machine home page, select 'Machine control setup' to open 'Machine Settings'.

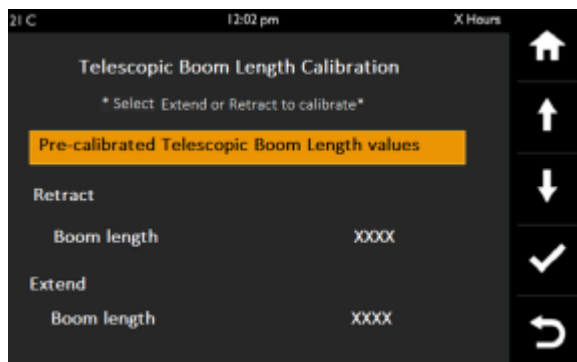


2. Use the Up/Down scroll icon to choose 'Telescopic Boom Length Calibration' in the menu, and click select icon



- B** Home page icon
- C** Up scroll icon
- D** Down scroll icon
- E** Select icon
- F** Return icon
- G** Machine settings

3. The 'Telescopic Boom Length Calibration' screen appears which displays the 'Pre-calibrated telescopic boom length Values'.

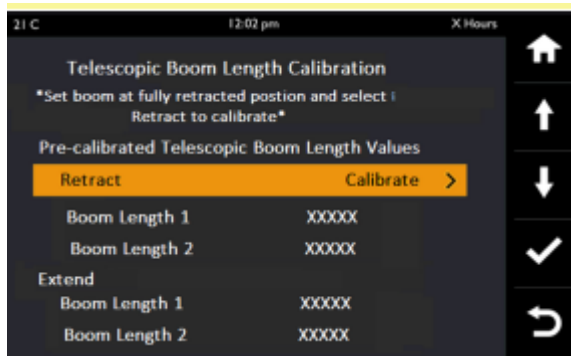


3.1. The specified preset values for 'Telescopic Boom Length Retracted' and 'Telescopic Boom Length Extended' will appear on the screen.

Angle: 0°

4. Select 'Calibrate' from the drop-down menu of the 'Retract' field.

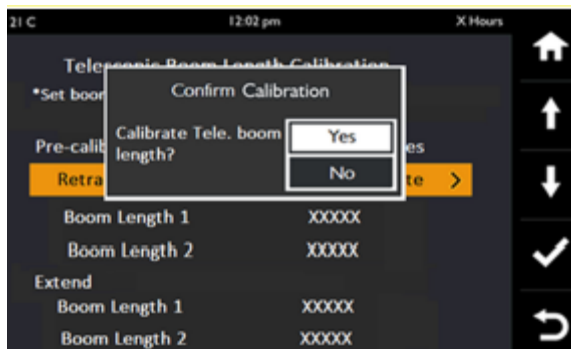
5. The 'Confirm Calibration' screen appears.



5.1. If the operator selects 'Yes' for 'Calibrate Tele. boom length?' field, it will save the live values of the 'Tele. boom length 1' and 'Tele boom length 2' in order to proceed with the calibration and go to step 6.

5.2. If the operator selects 'No' for 'Calibrate Tele. boom length?' field, the screen will return to 'Pre-calibrated Telescopic Boom Length Values'. Refer to step 3.

6 The newly set 'Tele. boom length 1' and 'Tele. boom length 2' values for telescopic boom length retract will appear on the screen with the 'Tick' mark.



7. If the telescopic boom length calibrated set acknowledge message is not received within the specified duration, then the display shows 'Cross' mark.
Duration: 4s

Telescopic Boom Length Calibration - Extend

1. On the machine home page, select 'Machine control setup' to open 'Machine Settings'.

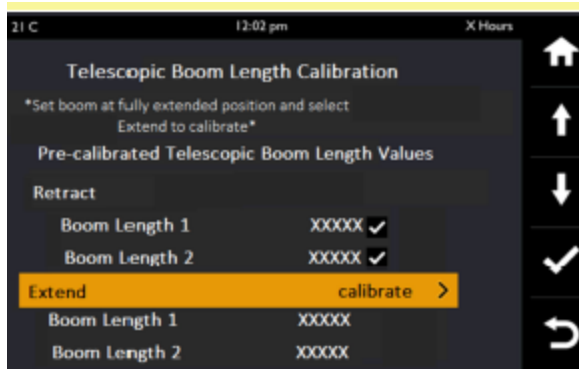
2. Use the Up/Down scroll icon to choose 'Telescopic Boom Length Calibration' in the menu, and click select icon.

3. The 'Telescopic Boom Length Calibration' screen appears which displays the 'Pre-calibrated telescopic boom length Values'.

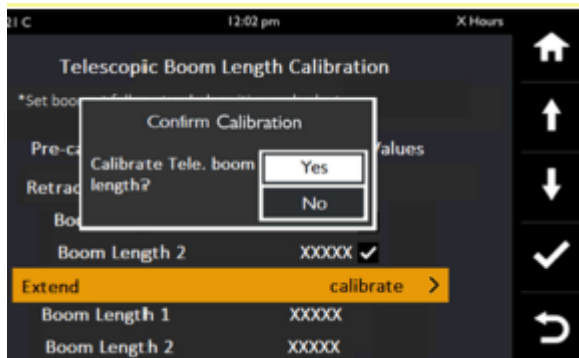
3.1. The specified preset values for 'Telescopic Boom Length Retracted' and 'Telescopic Boom Length Extended' will appear on the screen.

Angle: 0°

4. Select 'Calibrate' from the drop-down menu of the 'Extend' field.



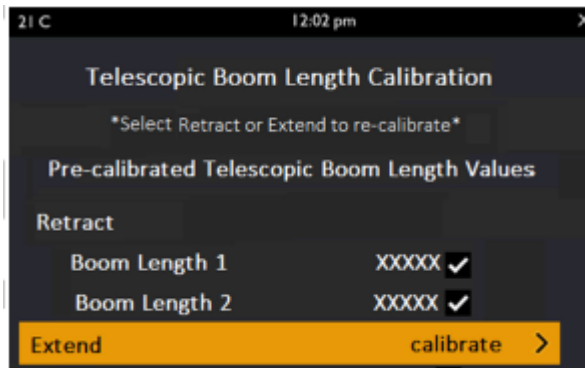
5 The 'Confirm Calibration' screen appears



5.1 If the operator selects 'Yes' for 'Calibrate Teleboom length' field, it will save the live values of the 'Tele. boom length 1' and 'Tele.boom length 2' in order to proceed with the calibration and go to step 6.

5.2. If the operator selects 'No' for 'Calibrate Teleboom length' field, the screen will return to 'Pre-calibrated Telescopic Boom Length Values'. Refer to step 3

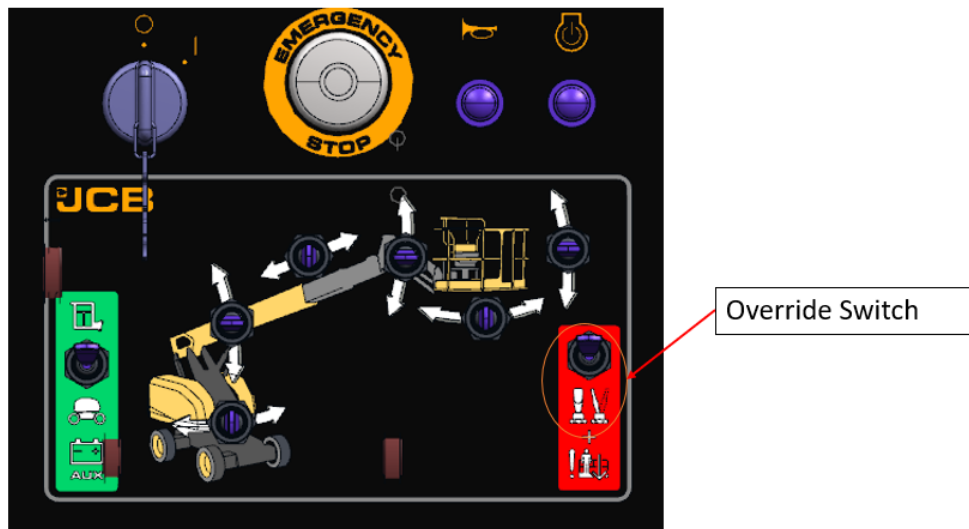
6. The newly set 'Tele. boom length 1' and 'Teleboom length 2' values for telescopic boom length extend will appear on the screen with the 'Tick' mark.



7. If the telescopic boom length calibrated set acknowledge message is not received within the specified duration, then the display shows 'Cross' mark.

Duration: 4s

7.5 Emergency Override



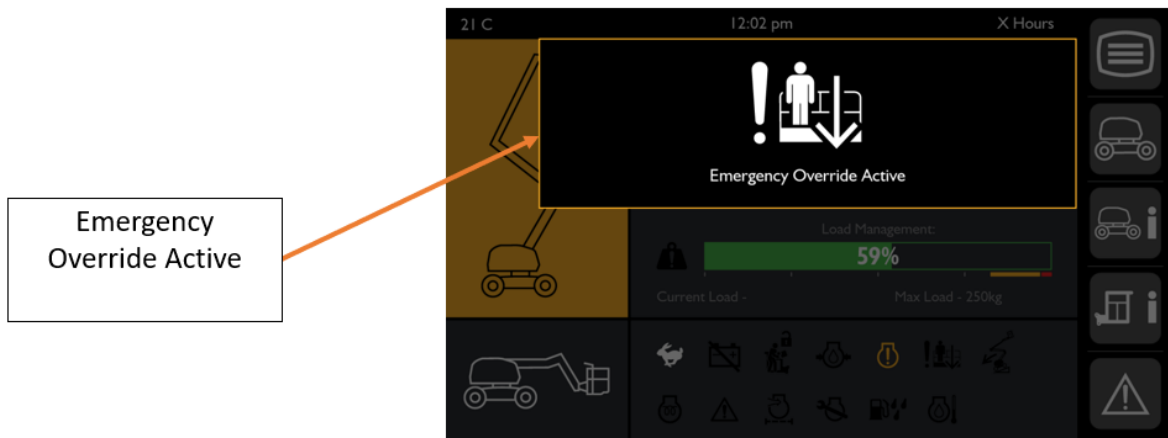
Machine Override system

The machine override safety system will allow operator to rescue in case of any fault activated during working from platform (i.e. platform overload, Crush protection fault, Platform start lock fault etc). If this emergency feature is used by operator a fault tell-tale will be displayed at base display which will be reset by JCB service Engineer.

Steps to activate Override system-

- From Base control Panel, make the IGN switch off then press the override toggle switch.
- With holding override toggle switch in pressed condition, make ignition switch ON.

- Override window will appear at base display.
- Perform the desired boom operations from base control Panel (Boom/jib lowering, retraction operations etc.) to rescue the operator.



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Diagnostic Fault Tables

8 Diagnostic Fault Tables

Enter topic text here.

8.1 General Sensor Fault Table

Step	Trouble	Action
1	Sensor supply voltage fault	Disconnect the sensor, check sensor voltage supply at the harness connector (see relevant sensor helpfile for pin numbers or refer to engine electrical schematic) If voltage supply is faulty, disconnect all other sensors in turn until the voltage supply returns. If sensor supply voltage is OK, proceed to Step 2
2	Sensor connection faulty	Check condition of sensor to harness connection, make sure the seals are in place. Check for signs of corrosion or contamination. Repair/replace as necessary. If no fault is found, proceed to Step 3.
3	Sensor failure	Check the sensor resistance (see relevant helpfile for values). If sensor is out of specification, replace. If no fault is found, proceed to Step 4
4	Wiring fault	Check the harness continuity, and machine and earth contacts. Repair/replace as necessary If no fault is found, proceed to Step 5
5	ECU fault	Disconnect the harness from the ECU and inspect. Check seals are in place, check for signs of corrosion and pin damage. If harness is damaged repair/replace as necessary. If ECU pins are damaged, replace ECU and reflash, see section on ECU flashing. If no fault is found, raise a Techweb Helpdesk Call.

Machine Fault Codes

9 Machine Fault Codes

9.1 Fault Codes

Fault Codes - Numerical List

Click on the fault code to link device specific information and fault finding procedure

9.1.1 B1006-17

Error Code:	B1006-17
ECU	Bosch Base ECU
Description :	Platform Enable Switch SC to High
Component :	Platform Enable Switch

	 PLATFORM ENABLE SWITCH
Vehicle reaction:	When platform Enable switch SC to High fault is detected before Operation: 1. It disable base controls 2. default Selection is platform controls 3. log error code & set fault indicator. 4. It Allows the auxiliary pump to function with base override or platform controls only. 5. It allows base override When pltfom Enable switch SC to High fault is detected after operation:

	1. Block all inputs connected to 10V present on the Base control panel.
Possible Cause:	1. The Short Circuit between any two conductors 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 251. on connector 2. Check voltage on wire (pin 251. 3. Machine restart
Other:	N/A

JCB

9.1.2 B1007-92

Error Code:	B1007-92
ECU	Bosch Base ECU
Description :	Platform Enable Switch AND Base Enable Switch both activated (5 - 10V)
Component :	Platform Enable Switch

	 PLATFORM ENABLE SWITCH
Vehicle reaction:	When Platform Enable Switch AND Base Enable Switch both activated on the machine: 1. It disable base controls. 2. default Selection is platform controls. 3. log error code & set fault indicator. 4. It Allows the auxiliary pump to function with base override or platform controls only. 5. It allows base override.
Possible Cause:	1. The Short Circuit between any two conductors 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective

	bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 136. on connector 2. Check voltage on wire (pin 136. 3. Check pin connection (pin 251. on connector 4. Check voltage on wire (pin 251. 5. Platform / Base Enable state change.
Other:	N/A



9.1.3 B1008-16

Error Code:	B1008-16
ECU	Bosch Base ECU
Description:	Base Enable SC to Low
Component:	Base Enable Switch  BASE ENABLE SWITCH

Vehicle reaction:	When Base Enable switch SC to Low fault is detected before operation: 1. It disable base controls. 2. default Selection is platform controls. 3. log error code & set fault indicator. 4. It Allows the auxiliary pump to function with base override or platform controls only. When Base Enable switch SC to Low fault is detected After operation: 1. Blocks all inputs connected to 10V present on the Base control panel
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch .
Service Action:	1. Check pin connection (pin 136. on connector 2. Check voltage on wire (pin 136. 3. Machine restart
Other:	N/A

JCB

9.1.4 B1009-16

Error Code:	B1009-16
--------------------	-----------------

ECU	Bosch Base ECU
Description :	Platform Enable SC to Low
Component :	Platform Enable Switch  PLATFORM ENABLE SWITCH
Vehicle reaction:	When Platform Enable switch SC to Low fault is detected before operation: 1. It disables platform controls. 2. log error code & set fault indicator. 3. It allows auxiliary pump to function with base controls only. When Platform Enable switch SC to Low fault is detected After operation : 1. Blocks all inputs connected to 10V present on the Platform control panel
Possible Cause:	1. The Short Circuit between any two conductors.

	2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 251. on connector) 2. Check voltage on wire (pin 251) 3. Machine restart
Other:	N/A



9.1.5 B1010-13

Error Code:	B1010-13
ECU	Bosch Base ECU
Description :	Base Enable Switch OC AND Platform Enable Switch OC
Component :	Base Enable Switch & Platform Enable Switch



BASE ENABLE SWITCH

	 PLATFORM ENABLE SWITCH
Vehicle reaction:	When Base enable and Platform Enable switch OC fault is detected on the machine: 1. default to platform controls. 2.log error code & set fault indicator. 3. It allows auxiliary pump to function with base override or platform controls only.
Possible Cause:	1. Open circuit of any conductor. 2. Interruption in power supply. 3. No operation of switch due to mechanical failure.
Service Action:	1. Check pin connection (pin 136. on connector 2. Check voltage on wire (pin 136. 3. Check pin connection (pin 251. on connector 4. Check voltage on wire (pin 251. 5. change the Platform / Base Enable state.
Other:	N/A

9.1.6 B1019-17

Error Code:	B1019-17
ECU	Bosch Base ECU
Description :	SLEW POSITION Limit Switch 1 SC to High
Component :	Slew
Vehicle reaction:	When Slew position limit switch1 SC to High fault is detected on the machine: 1. default to slewed mode (lock oscillating axle, require slew acknowledge to drive.. 2. implement slew acknowledge safety function (SF#10. in all positions. 3. It logs error code & set fault indicators.
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 147. on connector 2. Check voltage on wire (pin 147. 3. Machine restart
Other:	N/A



9.1.7 B1020-17

Error Code:	B1020-17
ECU	Bosch Base ECU

Description :	SLEW POSITION Limit Switch 2 SC to High
Component :	Slew
Vehicle reaction:	When Slew position limit switch2 SC to High fault is detected on the machine: 1. default to slewed mode (lock oscillating axle, require slew acknowledge to drive.. 2. implement slew acknowledge safety function (SF#10. in all positions. 3. It logs error code & set fault indicators. 4. Implement axle lock in all positions (axle is locked..
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 157. on connector 2. Check voltage on wire (pin 157. 3. Machine restart
Other:	N/A



9.1.8 B1021-16

Error Code:	B1021-16
ECU	Bosch Base ECU
Description :	SLEW POSITION Limit Switch 1 SC to Low
Component :	Slew

Vehicle reaction:	When Slew position limit switch1 SC to Low fault is detected on the machine: 1. default to slewed mode (lock oscillating axle, require slew acknowledge to drive.. 2. implement slew acknowledge safety function (SF#10. in all positions. 3. It logs error code & set fault indicators.
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 147. on connector 2. Check voltage on wire (pin 147. 3. Machine restart
Other:	N/A



9.1.9 B1022-13

Error Code:	B1022-13
ECU	Bosch Base ECU
Description :	SLEW POSITION Limit Switch 1 and SLEW POSITION Limit Switch 2 OC
Component :	Slew
Vehicle reaction:	When Slew position limit switch 1 and slew position limit switch 2 OC fault is detected on the machine: 1. It implements slewed mode. 2. It locks oscillating axle, require slew acknowledge to drive. 3. It logs error code & sets fault indicator.

	4. Implement slew acknowledge safety function (SF#10). in all positions
Possible Cause:	1. Open circuit of any conductor. 2. Interruption in power supply. 3. No operation of switch due to mechanical failure.
Service Action:	1. Check pin connection (pin 147. on connector) 2. Check voltage on wire (pin 147) 3. Check pin connection (pin 157. on connector) 4. Check voltage on wire (pin 157) 5. Machine restart
Other:	N/A



9.1.10 B1023-16

Error Code:	B1023-16
ECU	Bosch Base ECU
Description :	SLEW POSITION Limit Switch 2 SC to Low
Component :	Slew
Vehicle reaction:	When Slew position limit switch2 SC to Low fault is detected on the machine: 1. default to slewed mode (lock oscillating axle, require slew acknowledge to drive. 2. It logs error code & sets fault indicators. 3. Implement slew acknowledge safety function (SF#10. in all positions 4. Implement axle lock in all positions (axle is locked.
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding.

	3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 157. on connector 2. Check voltage on wire (pin 157. 3. Machine restart
Other:	N/A



9.1.11 B1024-92

Error Code:	B1024-92
ECU	Bosch Base ECU
Description :	SLEW POSITION Limit Switch 1 and SLEW POSITION Limit Switch 2 short to 10V
Component :	Slew
Vehicle reaction:	When Slew position limit switch 1 and slew position limit switch 2 Short to 10V fault is detected on the machine: 1. default to slewed mode (lock oscillating axle, require slew acknowledge to drive. 2. log error code & set fault indicator 3. Implement slew acknowledge safety function (SF#10. in all positions 4. Implement axle lock in all positions (axle is locked.
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 147. on connector 2. Check voltage on wire (pin 147. 3. Check pin connection (pin 157. on connector

	4. Check voltage on wire (pin 157. 5. Machine restart
Other:	N/A



9.1.12 B1025-13

Error Code:	B1025-13
ECU	Bosch Platform ECU
Description :	CRUSH Protection Switch 1 and 2 Plausibility Check
Component :	Crush Protection
Vehicle reaction:	When Crush protection switch 1 and 2 plausibility fault is detected: 1. It implements crush protection mode 2. It prevents all drive, raise & extend movements 3. log error code & set fault indicator
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch. 4. Open circuit of any conductor. 5. Interruption in power supply. 6. No operation of switch due to mechanical failure.
Service Action:	1. Check pin connection (pin 236. on connector 2. Check voltage on wire (pin 236. 3. Check pin connection (pin 247. on connector 4. Check voltage on wire (pin 247. 5. Machine restart
Other:	N/A



9.1.13 B1026-17

Error Code:	B1026-17
ECU	Bosch Platform ECU
Description :	CRUSH Protection Switch 1 SC to >5V
Component :	Crush Protection 
Vehicle reaction:	When Crush protection switch 1 SC to > 5V fault is detected: 1. It implements crush protection mode 2. It prevents all drive, raise & extend movements 3. log error code & set fault indicator
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 236. on connector 2. Check voltage on wire (pin 236. 3. Machine restart
Other:	N/A



9.1.14 B1029-17

Error Code:	B1029-17
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ECU	Bosch Platform ECU
Description :	CRUSH Protection Switch 2 SC to >10.5V
Component :	Crush Protection 
Vehicle reaction:	When Crush protection switch 2 SC to > 10.5V fault is detected: 1. It implements crush protection mode 2. It prevents all drive, raise & extend movements 3. log error code & set fault indicator
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 247. on connector) 2. Check voltage on wire (pin 247. 3. Machine restart
Other:	N/A



9.1.15 B1030-17

Error Code:	B1030-17
ECU	Bosch Base ECU
Description :	FORWARD OR REVERSE Proportional Solenoid Valve HS SC to High

Component :	Forward Or Reverse Proportional Solenoid Valve
Vehicle reaction:	When FORWARD OR REVERSE Proportional Solenoid Valve HS SC to High fault is detected: 1. It Detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. Switch drive o/p/s (but not steer. to off (Brake comes ON automatically. 3. log error code & set fault indicator. Note: Before Ignition ON, POST Fail (stuck in startup logic. and Generic o/p fault.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 152. on connector 2. Check voltage on wire (pin 152. 3. Check pin connection (pin 176. on connector 4. Check voltage on wire (pin 176. 5. Machine restart
Other:	N/A



9.1.16 B1031-16

Error Code:	B1031-16
ECU	Bosch Base ECU

Description :	FORWARD OR REVERSE Proportional Solenoid Valve HS SC to Low
Component :	Forward Or Reverse Proportional Solenoid Valve
Vehicle reaction:	When FORWARD OR REVERSE Proportional Solenoid Valve HS SC to Low fault is detected: 1. It Detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. Switch drive o/ps (but not steer. to off (Brake comes ON automatically. 3. log error code & set fault indicator.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 152. on connector 2. Check voltage on wire (pin 152. 3. Check pin connection (pin 176. on connector 4. Check voltage on wire (pin 176. 5. Machine restart
Other:	N/A



9.1.17 B1032-13

Error Code:	B1032-13
ECU	Bosch Base ECU
Description :	FORWARD OR REVERSE Proportional Solenoid Valve HS OC

Component :	Forward Or Reverse Proportional Solenoid Valve
Vehicle reaction:	When FORWARD OR REVERSE Proportional Solenoid Valve HS OC fault is detected: 1. It Detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. Switch drive o/ps (but not steer. to off (Brake comes ON automatically. 3. log error code & set fault indicator. Note: During operation , refer to FORWARD OR REVERSE Proportional Solenoid Valve LS OC Fault code
Possible Cause:	1. Open circuit of any conductor. 2. Does not energise.
Service Action:	1. Check pin connection (pin 152. on connector 2. Check voltage on wire (pin 152. 3. Check pin connection (pin 176. on connector 4. Check voltage on wire (pin 176. 5. Machine restart
Other:	N/A



9.1.18 B1033-17

Error Code:	B1033-17
ECU	Bosch Base ECU
Description :	FORWARD OR REVERSE Proportional Solenoid Valve LS SC to High

Component :	Forward Or Reverse Proportional Solenoid Valve
Vehicle reaction:	When FORWARD OR REVERSE Proportional Solenoid Valve LS SC to High fault is detected: 1. It Detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. Switch drive o/ps (but not steer. to off (Brake comes ON automatically. 3. log error code & set fault indicator. Note: Before Ignition ON, POST Fail (stuck in startup logic. and Generic o/p fault.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 186. on connector 2. Check voltage on wire (pin 186. 3. Machine restart
Other:	N/A



9.1.19 B1034-16

Error Code:	B1034-16
ECU	Bosch Base ECU
Description :	FORWARD OR REVERSE Proportional Solenoid Valve LS SC to Low

Component :	Forward Or Reverse Proportional Solenoid Valve
Vehicle reaction:	When FORWARD OR REVERSE Proportional Solenoid Valve LS SC to Low fault is detected: 1. It Detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. Switch drive o/ps (but not steer. to off (Brake comes ON automatically. 3. log error code & set fault indicator.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 186. on connector 2. Check voltage on wire (pin 186. 3. Machine restart
Other:	N/A



9.1.20 B1035-13

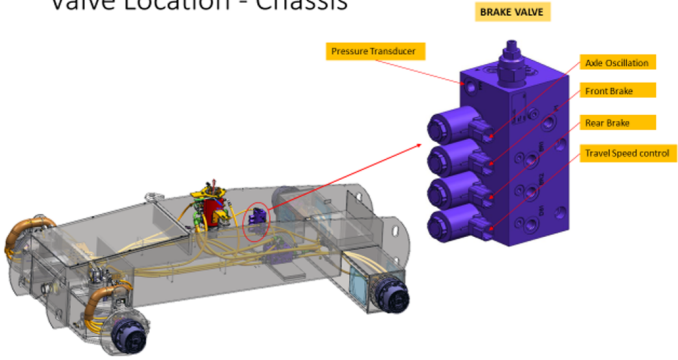
Error Code:	B1035-13
ECU	Bosch Base ECU
Description :	FORWARD OR REVERSE Proportional Solenoid Valve LS OC
Component :	Forward Or Reverse Proportional Solenoid Valve
Vehicle reaction:	When FORWARD OR REVERSE Proportional Solenoid Valve LS OC fault is detected:

	1. It Detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. Switch drive o/ps (but not steer. to off (Brake comes ON automatically. 3. log error code & set fault indicator.
Possible Cause:	1. Open circuit of any conductor. 2. Does not energise.
Service Action:	1. Check pin connection (pin 186. on connector 2. Check voltage on wire (pin 186. 3. Machine restart
Other:	N/A



9.1.21 B1043-17

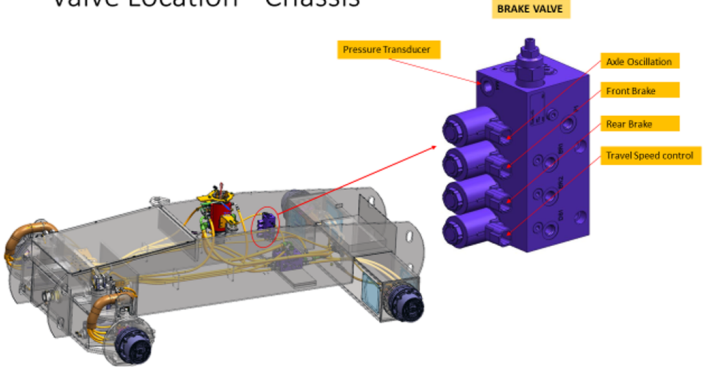
Error Code:	B1043-17
ECU	Bosch Base ECU
Description :	OSCILLATING AXLE Solenoid Valve HS SC to High
Component :	Oscillating Axle

	 oscillating axle pressure sensor Valve Location - Chassis 
Vehicle reaction:	When OSCILLATING AXLE Solenoid Valve HS SC to High fault is detected: 1. It Detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. Switch Axle Lock o/p to off. 3.log error code & set fault indicator. 4. Base disables Main Boom and Artic Boom Lift , Main Boom Extend, Slew and Drive functions (in slew position and Raised mode.. Note: Before Ignition ON, POST Fail (stuck in startup logic. and Generic o/p fault
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 131. on connector 2. Check voltage on wire (pin 131. 3. Machine restart

Other:	N/A
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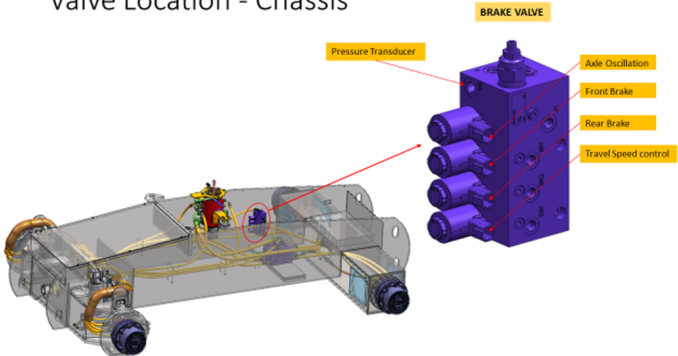
9.1.22 B1044-16

Error Code:	B1044-16
ECU	Bosch Base ECU
Description:	OSCILLATING AXLE Solenoid Valve HS SC to Low
Component:	Oscillating Axle  Valve Location - Chassis  oscillating axle pressure sensor
Vehicle reaction:	When OSCILLATING AXLE Solenoid Valve HS SC to Low fault is detected: 1. It Detects failure mode with Safout method- The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. Switch Axle Lock o/p to off. 3. log error code & set fault indicator. 4. Base disables Main Boom and Artic Boom Lift , Main Boom Extend, Slew and Drive functions (in slew position and Raised mode..

Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 131. on connector 2. Check voltage on wire (pin 131. 3. Machine restart
Other:	N/A



9.1.23 B1045-13

Error Code:	B1045-13
ECU	Bosch Base ECU
Description :	OSCILLATING AXLE Solenoid Valve HS & LS OC
Component :	Oscillating Axle  Valve Location - Chassis  oscillating axle pressure sensor
Vehicle reaction:	When OSCILLATING AXLE Solenoid Valve HS & LS OC fault is detected: 1. It Detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in

	both connection paths is possible and the error detection is improved with the interconnection. 2. Switch Axle Lock o/p to off. 3. log error code & set fault indicator. 4. Base disables Main Boom and Artic Boom Lift , Main Boom Extend, Slew and Drive functions (in slew position and Raised mode..
Possible Cause:	1. Open circuit of any conductor. 2. Does not energise.
Service Action:	1. Check pin connection (pin 131. on connector 2. Check voltage on wire (pin 131. 3. Check pin connection (pin 182. on connector 4. Check voltage on wire (pin 182. 5. Machine restart
Other:	N/A



9.1.24 B1046-17

Error Code:	B1046-17
ECU	Bosch Base ECU
Description :	HIGH TORQUE/LOW SPEED Solenoid Valve SC to High or OC
Component :	High Torque Switch 

Vehicle reaction:	When HIGH TORQUE/LOW SPEED Solenoid Valve SC to High or OC Fault is detected: 1. It does not disable any outputs. 2. log error code & set fault indicator
Possible Cause:	For SC to High fault: 1. The Short circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. Does not de-energise. For OC fault : 1. Open circuit of any conductor. 2 . Does not energise.
Service Action:	1.Check pin connection (pin 242. on connector 2. Check voltage on wire (pin 242. 3. Machine restart.
Other:	N/A



9.1.25 B1047-16

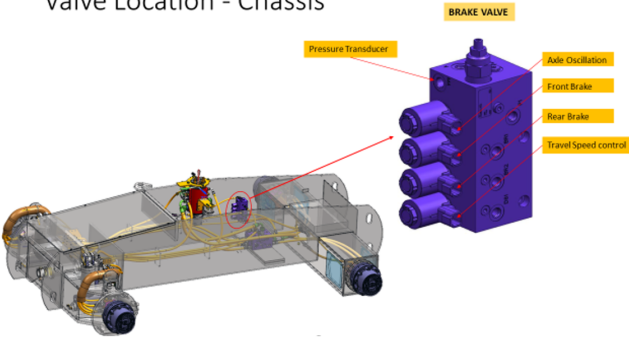
Error Code:	B1047-16
ECU	Bosch Base ECU
Description :	HIGH TORQUE/LOW SPEED Solenoid Valve SC to Low
Component :	High Torque Switch

	 TORQUE BUTTON
Vehicle reaction:	When HIGH TORQUE/LOW SPEED Solenoid Valve SC to Low Fault is detected: 1. It does not disable any outputs. 2. log error code & set fault indicator
Possible Cause:	1. The Short circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 242. on connector 2. Check voltage on wire (pin 242. 3. Machine restart.
Other:	N/A



9.1.26 B1048-17

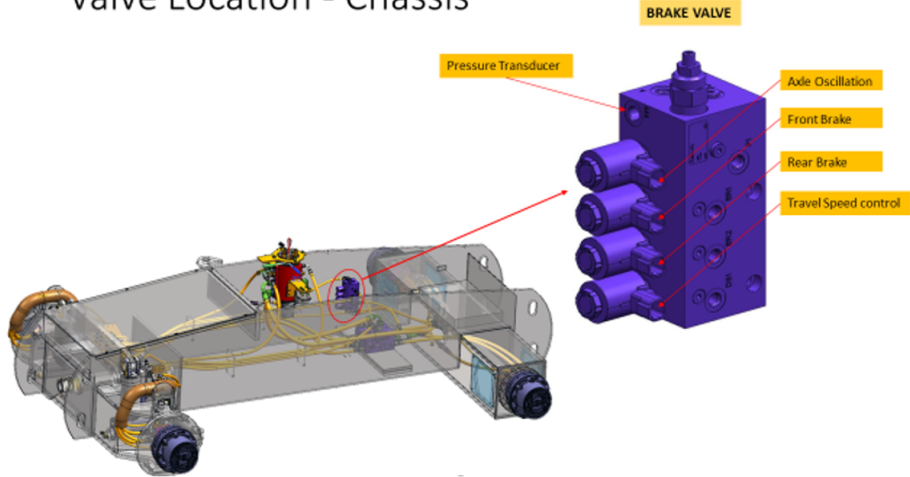
Error Code:	B1048-17
ECU	Bosch Base ECU
Description :	FRONT BRAKE Solenoid Valve SC to High or OC
Component :	Front Brake

	Valve Location - Chassis 
Vehicle reaction:	When FRONT BRAKE Solenoid Valve SC to High or OC fault is detected: 1. It detects failure mode. 2. It does not disable any outputs. 3. log error code & set fault indicator.
Possible Cause:	For SC to High fault: 1. The Short circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. Does not de-energise. For OC fault : 1. Open circuit of any conductor. 2 . Does not energise.
Service Action:	1. Check pin connection (pin 126. on connector 2. Check voltage on wire (pin 126. 3. No input request
Other:	N/A



9.1.27 B1049-16

Error Code:	B1049-16
ECU	Bosch Base ECU

Description :	FRONT BRAKE Solenoid Valve Raise SC to Low
Component :	Front Brake Valve Location - Chassis  The diagram illustrates the location of the front brake solenoid valve on the chassis. A red circle highlights the valve's position on the chassis, with a red arrow pointing to a detailed view of the valve. The detailed view shows the valve with several ports labeled: BRAKE VALVE, Pressure Transducer, Axle Oscillation, Front Brake, Rear Brake, and Travel Speed control.
Vehicle reaction:	When FRONT BRAKE Solenoid Valve SC to Low fault is detected: 1. It detects failure mode. 2. It does not disable any outputs. 3. log error code & set fault indicator.
Possible Cause:	1. The Short circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 126. on connector 2. Check voltage on wire (pin 126. 3. Machine restart.
Other:	N/A



9.1.28 B1050-17

Error Code:	B1050-17
ECU	Bosch Base ECU

Description :	ENGINE START BUTTON SC to High
Component :	Engine 
Vehicle reaction:	When ENGINE START BUTTON SC to High Fault is detected: 1. It disables engine start input & output. 2. log error code & set fault indicators 3. It holds the reaction until change of state of input.
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 250. on connector 2. Check voltage on wire (pin 250. 3.No input request
Other:	N/A



9.1.29 B1051-16

Error Code:	B1051-16
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ECU	Bosch Base ECU
Description :	ENGINE START BUTTON SC to Low
Component :	Engine   ENGINE START
Vehicle reaction:	When ENGINE START BUTTON SC to Low Fault is detected: 1. log error code & set fault indicators 2. Switch OFF the engine.
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 250. on connector 2. Check voltage on wire (pin 250. 3.No input request
Other:	N/A

9.1.30 B1052-24

Error Code:	B1052-24
ECU	Bosch Base ECU
Description :	ENGINE START BUTTON Stuck for ≥ 10 seconds
Component :	Engine  BASE PANEL PLATFORM PANEL ENGINE START
Vehicle reaction:	When ENGINE START BUTTON Stuck for ≥ 10 seconds: 1. It disables engine start input & output. 2. log error code & set fault indicators
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 250. on connector 2. Check voltage on wire (pin 250. 3.No input request
Other:	N/A



9.1.31 B1053-17

Error Code:	B1053-17
ECU	Bosch Platform ECU
Description :	FOOT PEDAL SC to High
Component :	Foot Pedal  FOOT PEDAL
Vehicle reaction:	When FOOT PEDAL switch SC to High fault is detected before operation: 1. if platform is selected, detect failure at start-up, platform selection or time-out. 2. It disables Platform controls. 3. log error code & set fault indicator. When FOOT PEDAL switch SC to High fault is detected after operation : 1. Block all inputs connected to 10V present on the Platform control panel.

Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 147. on connector 2. Check voltage on wire (pin 147. 3. Machine restart
Other:	N/A



9.1.32 B1054-16

Error Code:	B1054-16
ECU	Bosch Platform ECU
Description :	FOOT PEDAL SC to Low
Component :	Foot Pedal  FOOT PEDAL

Vehicle reaction:	When FOOT PEDAL switch SC to Low fault is detected before Operation: 1. It disables Platform controls. 2. log error code & set fault indicator. When FOOT PEDAL switch SC to Low fault is detected After operation : 1. Block all inputs connected to 10V present on the Platform control panel.
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 147. on connector 2. Check voltage on wire (pin 147. 3. Machine restart
Other:	N/A



9.1.33 B1055-17

Error Code:	B1055-17
ECU	Bosch Platform ECU
Description :	ELECTRIC PUMP BUTTON SC to High
Component :	Electric Pump

	 BASE PANEL PLATFORM PANEL ELECTRIC PUMP TOGGLE SWITCH ELECTRIC PUMP PUSH BUTTON
Vehicle reaction:	When ELECTRIC PUMP BUTTON SC to High fault Detected: 1. It disables electric pump switch input. 2. log error code & set fault indicators.
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 143. on connector 2. Check voltage on wire (pin 143. 3. No input request
Other:	N/A



9.1.34 B1056-16

Error Code:	B1056-16
ECU	Bosch Platform ECU
Description :	ELECTRIC PUMP BUTTON SC to Low

	 BASE PANEL PLATFORM PANEL ELECTRIC PUMP PUSH BUTTON ELECTRIC PUMP TOGGLE SWITCH
Component :	
Vehicle reaction:	When ELECTRIC PUMP BUTTON SC to Low fault Detected: 1. It disables electric pump switch input. 2. log error code & set fault indicators.
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 143. on connector 2. Check voltage on wire (pin 143. 3. machine restart
Other:	N/A



9.1.35 B1058-17

Error Code:	B1058-17
ECU	Bosch Base ECU
Description :	Override Switch Pressed SC to High
Component :	Override  Override Switch
Vehicle reaction:	When Override Switch Pressed SC to High fault is detected: 1. It disables override function (remain in normal operation). 2. log error code & set fault indicator
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding.

	3. The Short circuit between the three connections of a change-over switch.
Service Action:	1.Check pin connection (pin 225. on connector 2. Check voltage on wire (pin 225. 3. No input request
Other:	N/A



9.1.36 B1059-16

Error Code:	B1059-16
ECU	Bosch Base ECU
Description :	Override Switch Pressed SC to Low
Component :	Override  Override Switch

Vehicle reaction:	When Override Switch Pressed SC to Low fault is detected: 1. It disables override function (remain in normal operation). 2. log error code & set fault indicator
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 225. on connector 2. Check voltage on wire (pin 225. 3. No input request
Other:	N/A

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9.1.37 B1060-13

Error Code:	B1060-13
ECU	Bosch Base ECU
Description :	Override Switch Pressed and Override Switch Unpressed OC
Component :	Override

	 Override Switch
Vehicle reaction:	When Override Switch Pressed and Override Switch Unpressed OC fault is detected: 1. It disables override function (remain in normal operation. 2. log error code & set fault indicator
Possible Cause:	1. Open circuit of any conductor. 2. Interruption in power supply. 3. No operation of switch due to mechanical failure
Service Action:	1. Check pin connection (pin 225. on connector 2. Check voltage on wire (pin 225. 3. No input request
Other:	N/A



9.1.38 B1061-17

Error Code:	B1061-17
ECU	Bosch Base ECU

Description :	Override Switch Unpressed SC to High
Component :	Override  Override Switch
Vehicle reaction:	When Override Switch Unpressed SC to High fault is detected: 1. It disables override function (remain in normal operation). 2. log error code & set fault indicator
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 222. on connector) 2. Check voltage on wire (pin 222. 3. No input request
Other:	N/A



9.1.39 B1062-16

Error Code:	B1062-16
ECU	Bosch Base ECU
Description :	Override Switch Unpressed SC to Low
Component :	Override  Override Switch
Vehicle reaction:	When Override Switch Unpressed SC to Low fault is detected: 1. It disables override function (remain in normal operation). 2. log error code & set fault indicator
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.

Service Action:	1.Check pin connection (pin 222. on connector 2. Check voltage on wire (pin 222. 3. No input request
Other:	N/A



9.1.40 B1063-92

Error Code:	B1063-92
ECU	Bosch Base ECU
Description :	Override Switch Pressed and Override Switch Unpressed Both activated (5-10V)
Component :	Override  Override Switch
Vehicle reaction:	When Override Switch Pressed and Override Switch Unpressed Both activated : 1. It disables override function (remain in normal operation. 2. log error code & set fault indicator.

Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 222. on connector 2. Check voltage on wire (pin 222. 3. Check pin connection (pin 225. on connector 4. Check voltage on wire (pin 225. 5. No input request
Other:	N/A



9.1.41 B1064-17

Error Code:	B1064-17
ECU	Bosch Platform ECU
Description :	SLEW ACK SWITCH SC to High
Component :	Slew Ack Led 
Vehicle reaction:	When SLEW ACK SWITCH SC to High fault is detected: 1. It disables Slew Ack switch input. 2. log error code & set fault indicators.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bondin.

	3. The Short circuit between the three connections of a change-over switch.
Service Action:	1.Check pin connection (pin 251. on connector 2.Check voltage on wire (pin 251. 3. No input request
Other:	N/A



9.1.42 B1065-16

Error Code:	B1065-16
ECU	Bosch Platform ECU
Description :	SLEW ACK SWITCH SC to Low
Component :	Slew Ack Led 
Vehicle reaction:	When SLEW ACK SWITCH SC to Low fault is detected: 1. It disables Slew Ack switch input. 2. log error code & set fault indicators.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1.Check pin connection (pin 251. on connector 2.Check voltage on wire (pin 251. 3. No input request
Other:	N/A



9.1.43 B1066-24

Error Code:	B1066-24
ECU	Bosch Platform ECU
Description :	SLEW ACK SWITCH SC Stuck for ≥ 10 seconds
Component :	Slew Ack Led 
Vehicle reaction:	When SLEW ACK SWITCH SC Stuck for ≥ 10 seconds: 1. It disables Slew Ack switch input. 2. log error code & set fault indicators.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 251. on connector 2. Check voltage on wire (pin 251. 3. No input request
Other:	N/A



9.1.44 B1067-17

Error Code:	B1067-17
ECU	Bosch Platform ECU

Description :	POTENTIOMETER SC to High (>5.5V)
Component :	Potentiometer 
Vehicle reaction:	When POTENTIOMETER SC to High (>5.5V. fault detected: 1. It sets the potentiometer status to minimum speed (10%.. 2. log error code & fault indicator.
Possible Cause:	1. The Short circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1.Check pin connection (pin 139. on connector 2.Check voltage on wire (pin 139. 3.All platform control panel inputs are in Neutral position
Other:	N/A



9.1.45 B1069-17

Error Code:	B1069-17
ECU	Bosch Platform ECU
Description :	Drive JOYSTICK SC to High (>4.75V)
Component :	Drive

	 DRIVE JOYSTICK (UP/DOWN)
Vehicle reaction:	When Drive JOYSTICK SC to High (>4.75V. fault detected: 1. Ignore drive & Steer input (machine stops immediately). 2. log error code & set fault indicator
Possible Cause:	1. The Short Circuit between any two conductors. 2. Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Short circuit between all connections. 4. Short circuit between any two connections 5. Random change of value.
Service Action:	1. Check pin connection (pin 226. on connector 2. Check voltage on wire (pin 226. 3. Joystick is in Neutral position
Other:	N/A

JCB

9.1.46 B1070-16

Error Code:	B1070-16
ECU	Bosch Platform ECU
Description :	Drive JOYSTICK SC to Low (<0.25V) or OC
Component :	Drive  DRIVE JOYSTICK (UP/DOWN)

Vehicle reaction:	When Drive JOYSTICK SC to High (>4.75V. fault detected: 1. Ignore drive & Steer input (machine stops immediately. 2. log error code & set fault indicator
Possible Cause:	For SC to Low: 1. The Short Circuit between any two conductors. 2. Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Short circuit between all connections. 4. Short circuit between any two connections 5. Random change of value. For OC: 1. Open circuit of any conductor (D.4.. 2. Interruption in power supply (D.10.. 3. Open circuit of individual connection
Service Action:	1.Check pin connection (pin 226. on connector 2.Check voltage on wire (pin 226. 3. Joystick is in Neutral position
Other:	N/A



9.1.47 B1071-17

Error Code:	B1071-17
ECU	Bosch Base ECU
Description :	PLATFORM LEVELLING RAISE Switch SC to High
Component :	Platform Level

	Diagram illustrating the Platform Level Toggle Switch and its connection to the Platform level proportional solenoid valve. The diagram shows the Base Panel, Platform Panel, and the solenoid valve assembly.
Vehicle reaction:	When PLATFORM LEVELLING RAISE Switch SC to High fault is detected Before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault). 2. log error code & set fault indicators. When PLATFORM LEVELLING RAISE Switch SC to High fault is detected After operation (in case of STto12V.): 1. It Blocks all inputs connected to 10V present on the respective (Base. control panel). 2. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 210. on connector) 2. Check voltage on wire (pin 210. 3. Switch is in Neutral position
Other:	N/A



9.1.48 B1072-17

Error Code:	B1072-17
ECU	Bosch Base ECU
Description :	PLATFORM LEVELLING LOWER Switch SC to High
Component :	Platform Level
Vehicle reaction:	When PLATFORM LEVELLING LOWER Switch SC to High fault is detected Before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault). 2. log error code & set fault indicators. When PLATFORM LEVELLING LOWER Switch SC to High fault is detected After operation (in case of STto12V.): 1. It Blocks all inputs connected to 10V present on the respective (Base. control panel). 2. log error code & set fault indicators.

Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 209. on connector 2. Check voltage on wire (pin 209. 3. Switch is in Neutral position
Other:	N/A



9.1.49 B1073-92

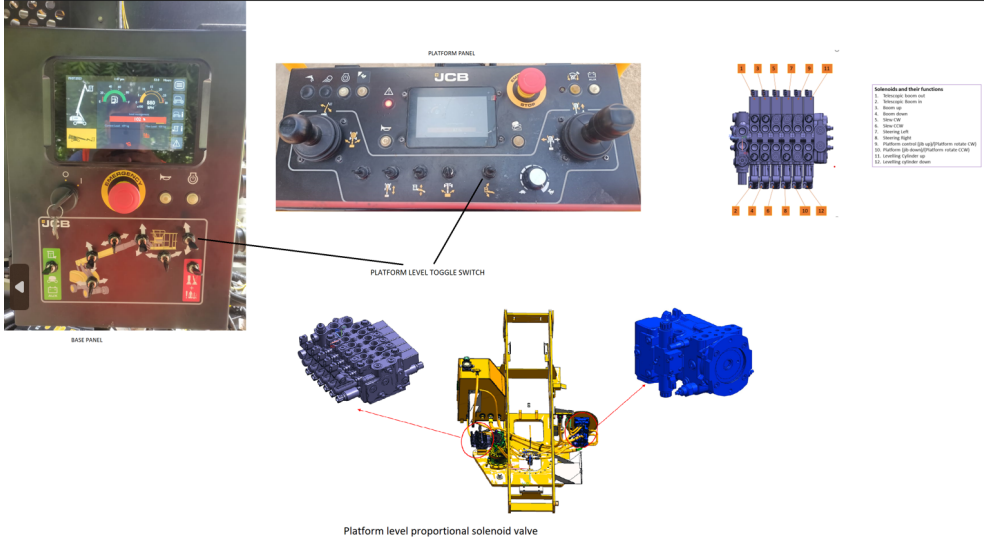
Error Code:	B1073-92
ECU	Bosch Base ECU
Description :	PLATFORM LEVELLING RAISE and LOWER Switches both activated (5 - 10V)
Component :	Platform Level
	PLATFORM PANEL PLATFORM LEVEL TOGGLE SWITCH BASE PANEL Platform level proportional solenoid valve Wiring Diagram Legend: 1. Platform level up 2. Platform level down 3. Platform level up 4. Platform level down 5. Platform level up 6. Platform level down 7. Platform level up 8. Platform level down 9. Platform level up 10. Platform level down 11. Platform level up 12. Platform level down 13. Platform level up 14. Platform level down

Vehicle reaction:	When PLATFORM LEVELLING RAISE and LOWER Switches both activated (5 - 10V. : 1. It Ignore the input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 209. on connector 2. Check voltage on wire (pin 209. 3. Check pin connection (pin 210. on connector 4. Check voltage on wire (pin 210. 5. Switch is in Neutral position
Other:	N/A



9.1.50 B1074-16

Error Code:	B1074-16
ECU	Bosch Base ECU
Description :	PLATFORM LEVELLING RAISE Switch SC to Low
Component :	Platform Level

	 Platform level proportional solenoid valve
Vehicle reaction:	When PLATFORM LEVELLING RAISE Switch SC to Low fault is detected Before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators. When PLATFORM LEVELLING RAISE Switch SC to Low fault is detected After operation (in case of STto12V.: 1. It Blocks all inputs connected to 10V present on the respective (Base. control panel. 2. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 210. on connector 2. Check voltage on wire (pin 210. 3. Switch is in Neutral position
Other:	N/A

	3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 209. on connector 2. Check voltage on wire (pin 209. 3. Switch is in Neutral position
Other:	N/A



9.1.52 B1076-17

Error Code:	B1076-17
ECU	Bosch Base ECU
Description :	MAIN BOOM RAISE OR LOWER PROPORTIONAL Solenoid Valve HS SC to High
Component :	Main Boom
Vehicle reaction:	When MAIN BOOM RAISE OR LOWER PROPORTIONAL Solenoid Valve HS SC to High fault is detected: 1. It Detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is

	improved with the interconnection. 2. It disables the MB RAISE and MB LOWER HS & LS outputs. 3. log error code & set fault indicators. Note: Before Ignition ON, POST Fail (stuck in startup logic. and Generic o/p fault
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise
Service Action:	1. Check pin connection (pin 154. on connector 2. Check voltage on wire (pin 154. 3. Check pin connection (pin 178. on connector 4. Check voltage on wire (pin 178. 5. Machine restart
Other:	N/A



9.1.53 B1077-16

Error Code:	B1077-16
ECU	Bosch Base ECU
Description :	MAIN BOOM RAISE OR LOWER PROPORTIONAL Solenoid Valve HS SC to Low
Component :	Main Boom

	
Vehicle reaction:	When MAIN BOOM RAISE OR LOWER PROPORTIONAL Solenoid Valve HS SC to Low fault is detected: 1. It Detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. It disables the MB RAISE and MB LOWER HS & LS outputs. 3. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise
Service Action:	1. Check pin connection (pin 154. on connector) 2. Check voltage on wire (pin 154) 3. Check pin connection (pin 178. on connector) 4. Check voltage on wire (pin 178.) 5. Machine restart
Other:	N/A



9.1.54 B1078-13

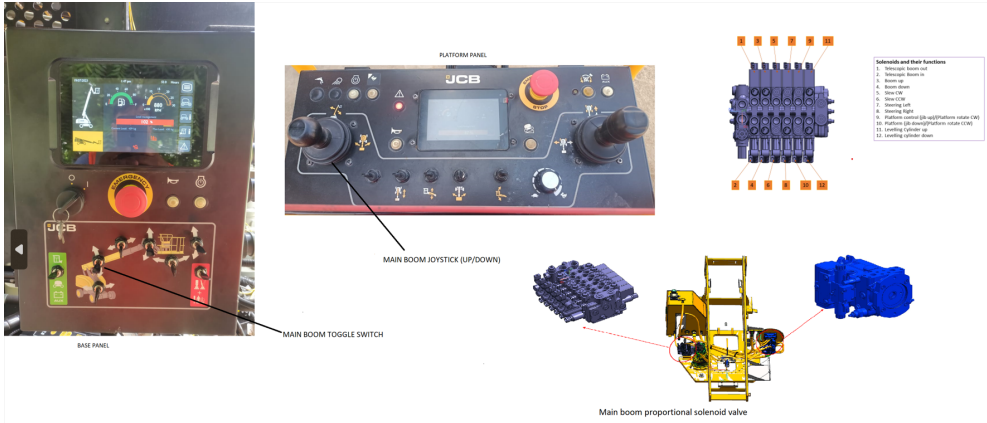
Error Code:	B1078-13
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ECU	Bosch Base ECU
Description :	MAIN BOOM RAISE OR LOWER PROPORTIONAL Solenoid Valve HS OC
Component :	Main Boom
Vehicle reaction:	When MAIN BOOM RAISE OR LOWER PROPORTIONAL Solenoid Valve HS OC fault is detected: 1. It Detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. It disables the MB RAISE and MB LOWER HS & LS outputs. 3. log error code & set fault indicators. Note: During operation, refer to MAIN BOOM RAISE OR LOWER PROPORTIONAL Solenoid Valve LS OC Fault code
Possible Cause:	1. Open circuit of any conductor. 2. Does not energise.
Service Action:	1. Check pin connection (pin 154. on connector) 2. Check voltage on wire (pin 154. 3. Check pin connection (pin 178. on connector)

	4. Check voltage on wire (pin 178. 5. Machine restart
Other:	N/A



9.1.55 B1079-17

Error Code:	B1079-17
ECU	Bosch Base ECU
Description :	MAIN BOOM RAISE OR LOWER PROPORTIONAL Solenoid Valve Fault
Component :	Main Boom 
Vehicle reaction:	When MAIN BOOM RAISE OR LOWER PROPORTIONAL Solenoid Valve fault is detected: 1. It Detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. It disables the MB RAISE and MB LOWER HS & LS outputs. 3. log error code & set fault indicators.

Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise
Service Action:	1. Check pin connection (pin 154. on connector 2. Check voltage on wire (pin 154. 3. Check pin connection (pin 178. on connector 4. Check voltage on wire (pin 178. 5. Machine restart
Other:	N/A



9.1.56 B1080-17

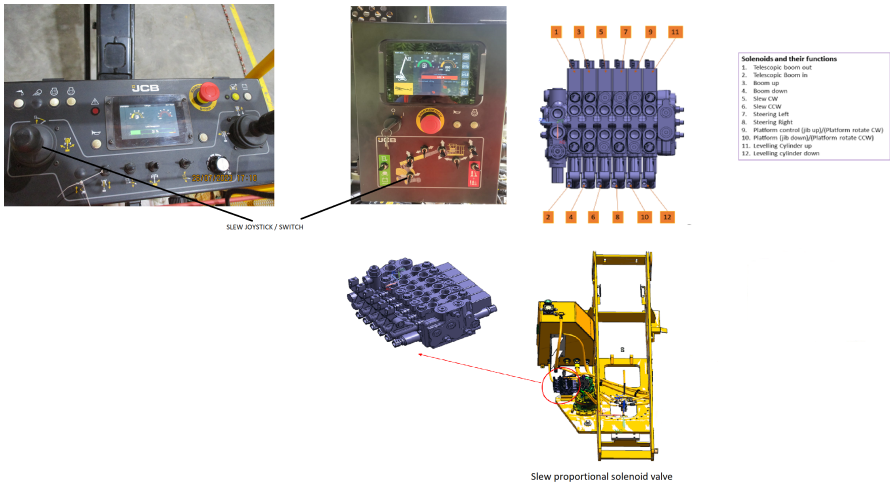
Error Code:	B1080-17
ECU	Bosch Base ECU
Description :	SLEW RIGHT OR LEFT PROPORTIONAL Solenoid Valve HS SC to High
Component :	Slew SLEW JOYSTICK / SWITCH Slew proportional solenoid valve
Vehicle reaction:	When SLEW RIGHT OR LEFT PROPORTIONAL Solenoid Valve HS SC to High fault is detected: 1. It Detects failure mode with Safout method - The SAFOUT

	module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection 2. It disables the Slew HS & LS outputs. 3. log error code & set fault indicator. Note: Before Ignition ON, POST Fail (stuck in startup logic. and Generic o/p fault
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 149. on connector 2. Check voltage on wire (pin 149. 3. Check pin connection (pin 173. on connector 4. Check voltage on wire (pin 173. 5. Machine restart
Other:	N/A



9.1.57 B1081-16

Error Code:	B1081-16
ECU	Bosch Base ECU
Description :	SLEW RIGHT OR LEFT PROPORTIONAL Solenoid Valve HS SC to Low
Component :	Slew

	 Solenoids and their functions 1. Telescope boom out 2. Telescope boom in 3. Boom up 4. Boom down 5. Slew CW 6. Slew CCW 7. Steering left 8. Steering right 9. Platform control (jib up)/(Platform rotate CW) 10. Platform (jib down)/(Platform rotate CCW) 11. Leveling cylinder up 12. Leveling cylinder down
Vehicle reaction:	When SLEW RIGHT OR LEFT PROPORTIONAL Solenoid Valve HS SC to Low fault is detected: 1. It Detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. It disables the Slew HS & LS outputs. 3. log error code & set fault indicator.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 149. on connector 2. Check voltage on wire (pin 149. 3. Check pin connection (pin 173. on connector 4. Check voltage on wire (pin 173. 5. Machine restart
Other:	N/A

9.1.58 B1082-13

Error Code:	B1082-13
ECU	Bosch Base ECU
Description :	SLEW RIGHT OR LEFT PROPORTIONAL Solenoid Valve HS OC
Component :	Slew SLEW RIGHT/LEFT SWITCH Slew proportional solenoid valve Solenoids and their Functions 1. Hydraulic boom out 2. Hydraulic boom in 3. Boom up 4. Boom down 5. Slew CW 6. Slew CCW 7. Steering Left 8. Steering Right 9. Platform control (Up/Down) (Platform rotate CW) 10. Platform (Up/Down) (Platform rotate CCW) 11. Leveling Cylinder up 12. Leveling cylinder down
Vehicle reaction:	When SLEW RIGHT OR LEFT PROPORTIONAL Solenoid Valve HS OC fault is detected: 1. It Detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. It disables the Slew HS & LS outputs. 3. log error code & set fault indicator. Note: During operation, refer to SLEW RIGHT OR LEFT PROPORTIONAL Solenoid Valve LS OC Fault code
Possible Cause:	1. Open circuit of any conductor. 2. Does not energise.
Service Action:	1. Check pin connection (pin 149. on connector 2. Check voltage on wire (pin 149.

	3. Check pin connection (pin 173. on connector 4. Check voltage on wire (pin 173. 5. Machine restart
Other:	N/A



9.1.59 B1083-17

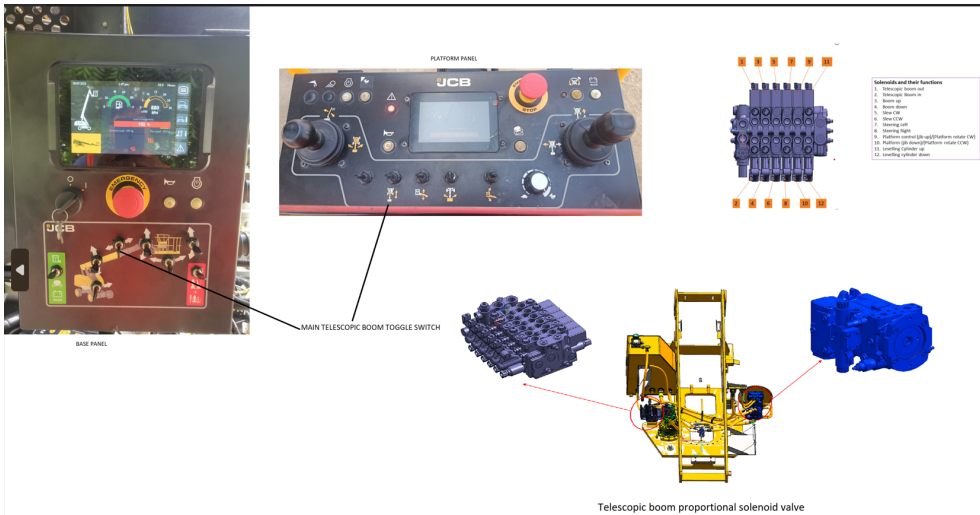
Error Code:	B1083-17
ECU	Bosch Base ECU
Description :	SLEW RIGHT OR LEFT PROPORTIONAL Solenoid Valve Fault
Component :	Slew SLEW JOYSTICK / SWITCH Slew proportional solenoid valve Solenoids and their functions 1. Telescope boom out 2. Telescope boom in 3. Boom up 4. Boom down 5. Slew CW 6. Slew CCW 7. Steering Left 8. Steering Right 9. Platform control (jib up) (Platform rotate CW) 10. Platform (jib down) (Platform rotate CCW) 11. Leveling cylinder up 12. Leveling cylinder down
Vehicle reaction:	When SLEW RIGHT OR LEFT PROPORTIONAL Solenoid Valve fault is detected: 1. It Detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection.

	2. It disables the Slew HS & LS outputs. 3. log error code & set fault indicator.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 149. on connector 2. Check voltage on wire (pin 149. 3. Check pin connection (pin 173. on connector 4. Check voltage on wire (pin 173. 5. Check pin connection (pin 187. on connector 6. Check voltage on wire (pin 187. 7. Machine restart
Other:	N/A

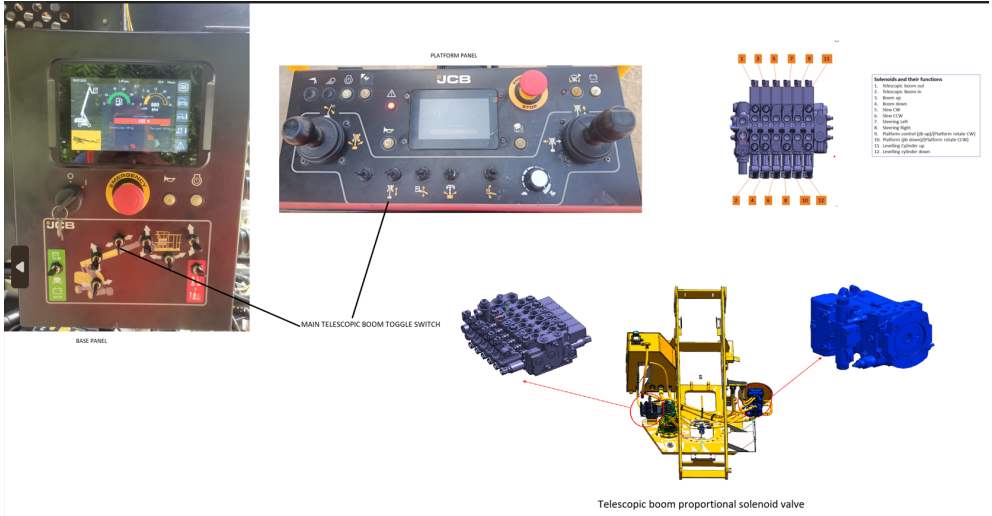


9.1.60 B1101-17

Error Code:	B1101-17
ECU	Bosch Base ECU
Description :	MAIN BOOM EXTEND Switch SC to High
Component :	Main Telescopic Boom

	 The diagram illustrates the JCB control system components. It includes a Platform Panel with a joystick and buttons, a Base Panel with a digital display and various switches, and a Telescopic boom proportional solenoid valve. A list of solenoids and their functions is provided: 1. Telescopic boom out 2. Telescopic boom in 3. Boom lift 4. Boom down 5. Boom stop 6. Boom stop 7. Boom stop 8. Telescopic boom out 9. Telescopic boom in 10. Telescopic boom out 11. Telescopic boom in 12. Telescopic boom out 13. Telescopic boom in 14. Telescopic boom out 15. Telescopic boom in 16. Telescopic boom out 17. Telescopic boom in 18. Telescopic boom out 19. Telescopic boom in 20. Telescopic boom out 21. Telescopic boom in 22. Telescopic boom out 23. Telescopic boom in 24. Telescopic boom out 25. Telescopic boom in 26. Telescopic boom out 27. Telescopic boom in 28. Telescopic boom out 29. Telescopic boom in 30. Telescopic boom out 31. Telescopic boom in 32. Telescopic boom out 33. Telescopic boom in 34. Telescopic boom out 35. Telescopic boom in 36. Telescopic boom out 37. Telescopic boom in 38. Telescopic boom out 39. Telescopic boom in 40. Telescopic boom out 41. Telescopic boom in 42. Telescopic boom out 43. Telescopic boom in 44. Telescopic boom out 45. Telescopic boom in 46. Telescopic boom out 47. Telescopic boom in 48. Telescopic boom out 49. Telescopic boom in 50. Telescopic boom out 51. Telescopic boom in 52. Telescopic boom out 53. Telescopic boom in 54. Telescopic boom out 55. Telescopic boom in 56. Telescopic boom out 57. Telescopic boom in 58. Telescopic boom out 59. Telescopic boom in 60. Telescopic boom out 61. Telescopic boom in 62. Telescopic boom out 63. Telescopic boom in 64. Telescopic boom out 65. Telescopic boom in 66. Telescopic boom out 67. Telescopic boom in 68. Telescopic boom out 69. Telescopic boom in 70. Telescopic boom out 71. Telescopic boom in 72. Telescopic boom out 73. Telescopic boom in 74. Telescopic boom out 75. Telescopic boom in 76. Telescopic boom out 77. Telescopic boom in 78. Telescopic boom out 79. Telescopic boom in 80. Telescopic boom out 81. Telescopic boom in 82. Telescopic boom out 83. Telescopic boom in 84. Telescopic boom out 85. Telescopic boom in 86. Telescopic boom out 87. Telescopic boom in 88. Telescopic boom out 89. Telescopic boom in 90. Telescopic boom out 91. Telescopic boom in 92. Telescopic boom out 93. Telescopic boom in 94. Telescopic boom out 95. Telescopic boom in 96. Telescopic boom out 97. Telescopic boom in 98. Telescopic boom out 99. Telescopic boom in 100. Telescopic boom out
Vehicle reaction:	When MAIN BOOM EXTEND Switch SC to High fault is detected Before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault). 2. log error code & set fault indicators. When MAIN BOOM EXTEND Switch SC to High fault is detected after operation: 1. It Blocks all inputs connected to 10V present on the respective(Base. control panel). 2. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 144. on connector) 2. Check voltage on wire (pin 144. 3. Switch is in Neutral position
Other:	N/A

9.1.61 B1102-17

Error Code:	B1102-17
ECU	Bosch Base ECU
Description :	MAIN BOOM RETRACT Switch SC to High
Component :	Main Telescopic Boom  The diagram illustrates the components involved in the B1102-17 fault. It shows the 'MAIN PANEL' and 'PLATFORM PANEL' of the JCB control system. A callout points to the 'MAIN TELESCOPIC BOOM TOGGLE SWITCH' on the platform panel. Another callout points to the 'Telescopic boom proportional solenoid valve' on the boom assembly. A legend titled 'Solenoids and their functions' lists 12 items: 1. Telescopic boom up, 2. Telescopic boom down, 3. Boom stop, 4. Boom stop, 5. Boom stop, 6. Boom stop, 7. Boom stop, 8. Boom stop, 9. Boom stop, 10. Boom stop, 11. Boom stop, 12. Boom stop.
Vehicle reaction:	When MAIN BOOM RETRACT Switch SC to High fault is detected Before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault). 2. log error code & set fault indicators. When MAIN BOOM RETRACT Switch SC to High fault is detected after operation: 1. It Blocks all inputs connected to 10V present on the respective(Base. control panel. 2. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding.

	3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 142. on connector 2. Check voltage on wire (pin 142. 3. Switch is in Neutral position
Other:	N/A



9.1.62 B1103-92

Error Code:	B1103-92
ECU	Bosch Base ECU
Description :	MAIN BOOM EXTEND & RETRACT Switches both activated (5 - 10V)
Component :	Main Telescopic Boom The diagram illustrates the Main Telescopic Boom system. It features a Base Panel with a digital display and control buttons, and a Platform Panel with a joystick and additional controls. A legend titled 'Solenoids and their functions' lists: 1. Telescopic Boom extend, 2. Telescopic Boom retract, 3. Boom down, 4. Boom up, 5. Boom stop, 6. Boom hold, 7. Boom lock, 8. Boom release, 9. Boom reset, 10. Boom emergency stop, 11. Boom emergency release, 12. Boom emergency lock, 13. Telescopic boom proportional solenoid valve. A 3D model of the boom assembly is shown with a red circle highlighting the telescopic boom proportional solenoid valve.
Vehicle reaction:	When MAIN BOOM EXTEND & RETRACT Switches both activated (5 - 10V. fault is detected: 1. It ignores the input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators.

Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 144. on connector 2. Check voltage on wire (pin 144. 3. Check pin connection (pin 142. on connector 4. Check voltage on wire (pin 142. 5. Switch is in Neutral position
Other:	N/A



9.1.63 B1104-16

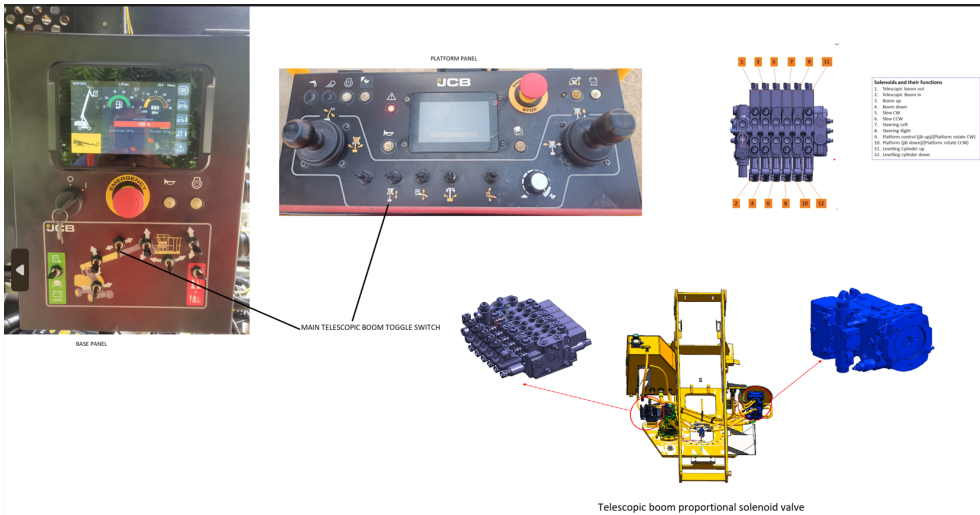
Error Code:	B1104-16
ECU	Bosch Base ECU
Description :	MAIN BOOM EXTEND Switch SC to Low
Component :	Main Telescopic Boom Telescopic boom proportional solenoid valve

Vehicle reaction:	When MAIN BOOM EXTEND Switch SC to Low fault is detected Before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators. When MAIN BOOM EXTEND Switch SC to Low fault is detected after operation: 1. It Blocks all inputs connected to 10V present on the respective(Base. control panel. 2. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 144. on connector 2. Check voltage on wire (pin 144. 3. Switch is in Neutral position
Other:	N/A

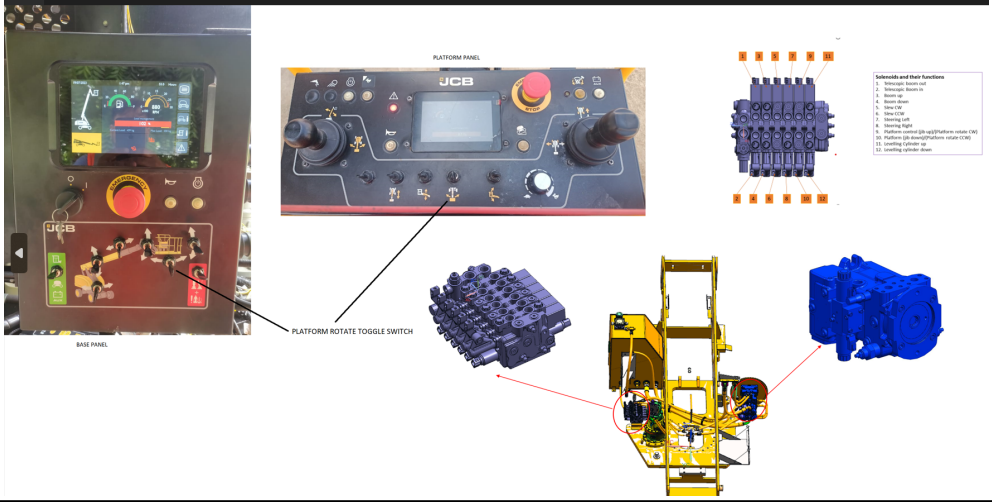


9.1.64 B1105-16

Error Code:	B1105-16
ECU	Bosch Base ECU
Description :	MAIN BOOM RETRACT Switch SC to Low
Component :	Main Telescopic Boom

	 Diagram illustrating the JCB control system components and their functions: - Platform Panel - Base Panel - MAIN TELESCOPIC BOOM TOGGLE SWITCH - Telescopic boom proportional solenoid valve - Solenoids and their functions: 1. Telescopic boom out 2. Telescopic boom in 3. Boom lift 4. Boom down 5. Boom stop 6. Boom stop 7. Boom stop 8. Telescopic boom out (20-40% Platform rotate CW) 9. Telescopic boom in (20-40% Platform rotate CW) 10. Telescopic boom out (20-40% Platform rotate CW) 11. Telescopic boom in (20-40% Platform rotate CW) 12. Telescopic boom out (20-40% Platform rotate CW) 13. Telescopic boom in (20-40% Platform rotate CW) 14. Telescopic boom out (20-40% Platform rotate CW) 15. Telescopic boom in (20-40% Platform rotate CW) 16. Telescopic boom out (20-40% Platform rotate CW) 17. Telescopic boom in (20-40% Platform rotate CW) 18. Telescopic boom out (20-40% Platform rotate CW) 19. Telescopic boom in (20-40% Platform rotate CW) 20. Telescopic boom out (20-40% Platform rotate CW) 21. Telescopic boom in (20-40% Platform rotate CW) 22. Telescopic boom out (20-40% Platform rotate CW) 23. Telescopic boom in (20-40% Platform rotate CW) 24. Telescopic boom out (20-40% Platform rotate CW) 25. Telescopic boom in (20-40% Platform rotate CW) 26. Telescopic boom out (20-40% Platform rotate CW) 27. Telescopic boom in (20-40% Platform rotate CW) 28. Telescopic boom out (20-40% Platform rotate CW) 29. Telescopic boom in (20-40% Platform rotate CW) 30. Telescopic boom out (20-40% Platform rotate CW) 31. Telescopic boom in (20-40% Platform rotate CW) 32. Telescopic boom out (20-40% Platform rotate CW) 33. Telescopic boom in (20-40% Platform rotate CW) 34. Telescopic boom out (20-40% Platform rotate CW) 35. Telescopic boom in (20-40% Platform rotate CW) 36. Telescopic boom out (20-40% Platform rotate CW) 37. Telescopic boom in (20-40% Platform rotate CW) 38. Telescopic boom out (20-40% Platform rotate CW) 39. Telescopic boom in (20-40% Platform rotate CW) 40. Telescopic boom out (20-40% Platform rotate CW) 41. Telescopic boom in (20-40% Platform rotate CW) 42. Telescopic boom out (20-40% Platform rotate CW) 43. Telescopic boom in (20-40% Platform rotate CW) 44. Telescopic boom out (20-40% Platform rotate CW) 45. Telescopic boom in (20-40% Platform rotate CW) 46. Telescopic boom out (20-40% Platform rotate CW) 47. Telescopic boom in (20-40% Platform rotate CW) 48. Telescopic boom out (20-40% Platform rotate CW) 49. Telescopic boom in (20-40% Platform rotate CW) 50. Telescopic boom out (20-40% Platform rotate CW) 51. Telescopic boom in (20-40% Platform rotate CW) 52. Telescopic boom out (20-40% Platform rotate CW) 53. Telescopic boom in (20-40% Platform rotate CW) 54. Telescopic boom out (20-40% Platform rotate CW) 55. Telescopic boom in (20-40% Platform rotate CW) 56. Telescopic boom out (20-40% Platform rotate CW) 57. Telescopic boom in (20-40% Platform rotate CW) 58. Telescopic boom out (20-40% Platform rotate CW) 59. Telescopic boom in (20-40% Platform rotate CW) 60. Telescopic boom out (20-40% Platform rotate CW) 61. Telescopic boom in (20-40% Platform rotate CW) 62. Telescopic boom out (20-40% Platform rotate CW) 63. Telescopic boom in (20-40% Platform rotate CW) 64. Telescopic boom out (20-40% Platform rotate CW) 65. Telescopic boom in (20-40% Platform rotate CW) 66. Telescopic boom out (20-40% Platform rotate CW) 67. Telescopic boom in (20-40% Platform rotate CW) 68. Telescopic boom out (20-40% Platform rotate CW) 69. Telescopic boom in (20-40% Platform rotate CW) 70. Telescopic boom out (20-40% Platform rotate CW) 71. Telescopic boom in (20-40% Platform rotate CW) 72. Telescopic boom out (20-40% Platform rotate CW) 73. Telescopic boom in (20-40% Platform rotate CW) 74. Telescopic boom out (20-40% Platform rotate CW) 75. Telescopic boom in (20-40% Platform rotate CW) 76. Telescopic boom out (20-40% Platform rotate CW) 77. Telescopic boom in (20-40% Platform rotate CW) 78. Telescopic boom out (20-40% Platform rotate CW) 79. Telescopic boom in (20-40% Platform rotate CW) 80. Telescopic boom out (20-40% Platform rotate CW) 81. Telescopic boom in (20-40% Platform rotate CW) 82. Telescopic boom out (20-40% Platform rotate CW) 83. Telescopic boom in (20-40% Platform rotate CW) 84. Telescopic boom out (20-40% Platform rotate CW) 85. Telescopic boom in (20-40% Platform rotate CW) 86. Telescopic boom out (20-40% Platform rotate CW) 87. Telescopic boom in (20-40% Platform rotate CW) 88. Telescopic boom out (20-40% Platform rotate CW) 89. Telescopic boom in (20-40% Platform rotate CW) 90. Telescopic boom out (20-40% Platform rotate CW) 91. Telescopic boom in (20-40% Platform rotate CW) 92. Telescopic boom out (20-40% Platform rotate CW) 93. Telescopic boom in (20-40% Platform rotate CW) 94. Telescopic boom out (20-40% Platform rotate CW) 95. Telescopic boom in (20-40% Platform rotate CW) 96. Telescopic boom out (20-40% Platform rotate CW) 97. Telescopic boom in (20-40% Platform rotate CW) 98. Telescopic boom out (20-40% Platform rotate CW) 99. Telescopic boom in (20-40% Platform rotate CW) 100. Telescopic boom out (20-40% Platform rotate CW)
Vehicle reaction:	When MAIN BOOM RETRACT Switch SC to Low fault is detected Before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators. When MAIN BOOM RETRACT Switch SC to Low fault is detected after operation: 1. It Blocks all inputs connected to 10V present on the respective(Base. control panel. 2. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 142. on connector 2. Check voltage on wire (pin 142. 3. Switch is in Neutral position
Other:	N/A

9.1.65 B1106-17

Error Code:	B1106-17
ECU	Bosch Base ECU
Description :	PLATFORM ROTATE RIGHT Switch SC to High
Component :	Platform Rotate 
Vehicle reaction:	When PLATFORM ROTATE RIGHT Switch SC to High fault is detected Before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault). 2. log error code & set fault indicators. When PLATFORM ROTATE RIGHT Switch SC to High fault is detected after operation: 1. It Blocks all inputs connected to 10V present on the respective (Base. control panel). 2. log error code & set fault indicators
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-ver switch

Service Action:	1. Check pin connection (pin 211. on connector) 2. Check voltage on wire (pin 211. 3. Switch is in Neutral position
Other:	N/A



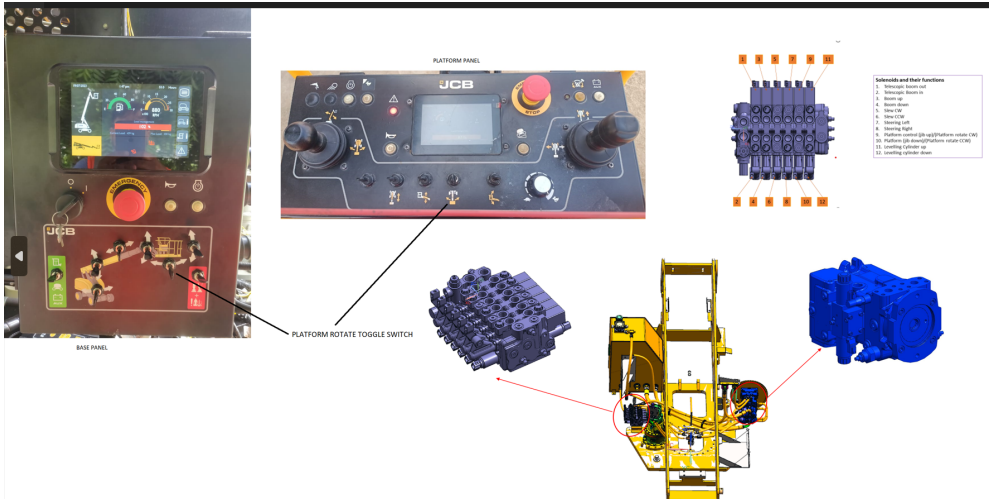
9.1.66 B1107-17

Error Code:	B1107-17
ECU	Bosch Base ECU
Description :	PLATFORM ROTATE LEFT Switch SC to High
Component :	Platform Rotate
Vehicle reaction:	When PLATFORM ROTATE LEFT Switch SC to High fault is detected Before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators. When PLATFORM ROTATE LEFT Switch SC to High fault is detected after operation: 1. It Blocks all inputs connected to 10V present on the respective

	(Base. control panel. 2. log error code & set fault indicators
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch
Service Action:	1. Check pin connection (pin 212. on connector 2. Check voltage on wire (pin 212. 3. Switch is in Neutral position
Other:	N/A



9.1.67 B1108-92

Error Code:	B1108-92
ECU	Bosch Base ECU
Description :	PLATFORM ROTATE RIGHT & LEFT Switches both activated (5 - 10V)
Component :	Platform Rotate 

Vehicle reaction:	When PLATFORM ROTATE RIGHT & LEFT Switches both activated (5 - 10V.: 1. It ignores the input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-ver switch
Service Action:	1. Check pin connection (pin 212. on connector 2. Check voltage on wire (pin 212. 3. Check pin connection (pin 211. on connector 4. Check voltage on wire (pin 211. 5. Switch is in Neutral position
Other:	N/A

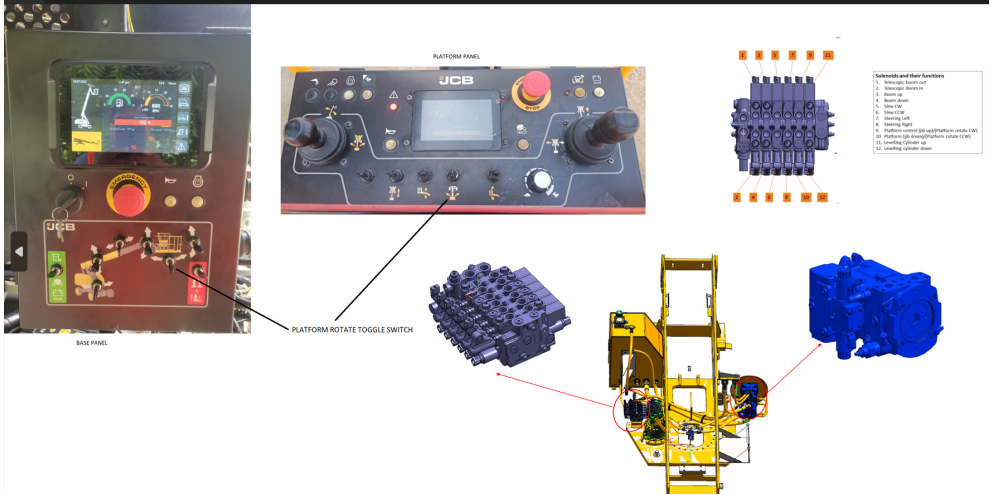


9.1.68 B1109-16

Error Code:	B1109-16
ECU	Bosch Base ECU
Description :	PLATFORM ROTATE RIGHT Switch SC to Low
Component :	Platform Rotate

	PLATFORM PANEL SIDE PANEL PLATFORM ROTATE TOGGLE SWITCH Schematic and their functions 1. Forward Drive 2. Reverse Drive 3. Forward Drive 4. Reverse Drive 5. Forward Drive 6. Reverse Drive 7. Forward Drive 8. Reverse Drive 9. Forward Drive 10. Reverse Drive 11. Forward Drive 12. Reverse Drive 13. Forward Drive
Vehicle reaction:	When PLATFORM ROTATE RIGHT Switch SC to Low fault is detected Before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators. When PLATFORM ROTATE RIGHT Switch SC to Low fault is detected after operation: 1. It Blocks all inputs connected to 10V present on the respective (Base. control panel). 2. log error code & set fault indicators
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-ver switch
Service Action:	1. Check pin connection (pin 211. on connector 2. Check voltage on wire (pin 211. 3. Switch is in Neutral position
Other:	N/A

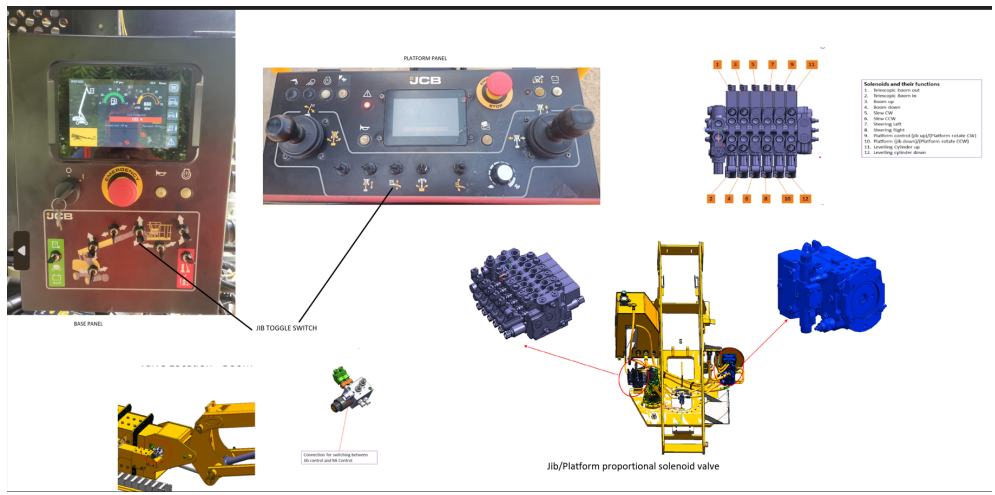
9.1.69 B1110-16

Error Code:	B1110-16
ECU	Bosch Base ECU
Description :	PLATFORM ROTATE LEFT Switch SC to Low
Component :	Platform Rotate 
Vehicle reaction:	When PLATFORM ROTATE LEFT Switch SC to Low fault is detected Before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators. When PLATFORM ROTATE LEFT Switch SC to Low fault is detected after operation: 1. It Blocks all inputs connected to 10V present on the respective (Base. control panel. 2. log error code & set fault indicators
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-ver switch

Service Action:	1. Check pin connection (pin 212. on connector) 2. Check voltage on wire (pin 212. 3. Switch is in Neutral position
Other:	N/A



9.1.70 B1111-17

Error Code:	B1111-17
ECU	Bosch Base ECU
Description :	JIB RAISE Switch SC to High
Component :	Jib  The diagram illustrates the components and wiring for the JIB RAISE Switch SC to High fault. It shows the Base Panel, Platform Panel, and Jib Toggle Switch. A schematic of the Jib/Platform proportional solenoid valve is also provided, along with a list of solenoid and valve functions.
Vehicle reaction:	When JIB RAISE Switch SC to High fault is detected before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault.. 2. log error code & set fault indicators. When JIB RAISE Switch SC to High fault is detected After operation: 1. It Blocks all inputs connected to 10V present on the respective

	(Base. control panel. 2. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 135. on connector 2. Check voltage on wire (pin 135. 3. Switch is in Neutral position
Other:	N/A



9.1.71 B1112-17

Error Code:	B1112-17
ECU	Bosch Base ECU
Description :	JIB LOWER Switch SC to High
Component :	Jib
Vehicle reaction:	When JIB LOWER Switch SC to High fault is detected before operation: 1. It ignores the input (but not o/p as it can be

	operated from where there is no fault.. 2. log error code & set fault indicators. When JIB LOWER Switch SC to High fault is detected After operation: 1. It Blocks all inputs connected to 10V present on the respective (Base. control panel. 2. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 214. on connector 2. Check voltage on wire (pin 214. 3. Switch is in Neutral position
Other:	N/A

JCB

9.1.72 B1113-92

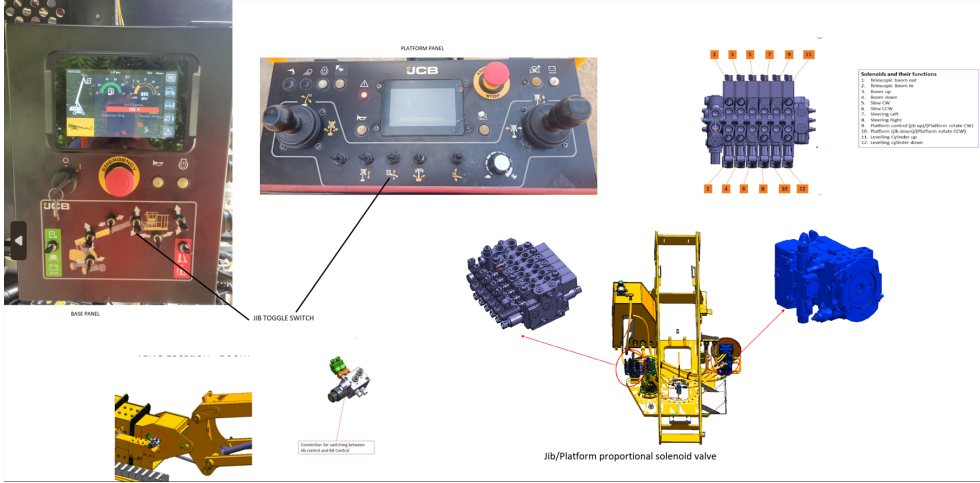
Error Code:	B1113-92
ECU	Bosch Base ECU
Description :	JIB RAISE & LOWER Switches both activated (5 - 10V)
Component :	Jib

Vehicle reaction:	When JIB RAISE & LOWER Switches both activated (5 - 10V.: 1. It ignores the input (but not o/p as it can be operated from where there is no fault.. 2. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 214. on connector 2. Check voltage on wire (pin 214. 3. Check pin connection (pin 135. on connector 4. Check voltage on wire (pin 135. 5. Switch is in Neutral position
Other:	N/A



9.1.73 B1114-16

Error Code:	B1114-16
ECU	Bosch Base ECU
Description :	JIB RAISE Switch SC to Low

Component :	Jib 
Vehicle reaction:	When JIB RAISE Switch SC to Low fault is detected before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault.. 2. log error code & set fault indicators. When JIB RAISE Switch SC to Low fault is detected After operation: 1. It Blocks all inputs connected to 10V present on the respective (Base. control panel. 2. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 135. on connector 2. Check voltage on wire (pin 135. 3. Switch is in Neutral position
Other:	N/A

	3. Switch is in Neutral position
Other:	N/A



9.1.75 B1116-17

Error Code:	B1116-17
ECU	Bosch Base ECU
Description :	MAIN BOOM RAISE (BASE) Switch SC to High
Component :	Main Boom
Vehicle reaction:	When MAIN BOOM RAISE (BASE. Switch SC to High fault is detected before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators. When MAIN BOOM RAISE (BASE. Switch SC to High fault is detected after operation: 1. It Blocks all inputs connected to 10V present on the respective (Base. control panel. 2. log error code & set fault indicators.

Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch
Service Action:	1. Check pin connection (pin 239. on connector 2. Check voltage on wire (pin 239. 3. Switch is in Neutral position
Other:	N/A



9.1.76 B1117-17

Error Code:	B1117-17
ECU	Bosch Base ECU
Description :	MAIN BOOM LOWER (BASE) Switch SC to High
Component :	Main Boom
Vehicle reaction:	When MAIN BOOM LOWER (BASE. Switch SC to High fault is detected before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators.

	When MAIN BOOM LOWER (BASE. Switch SC to High fault is detected after operation: 1. It Blocks all inputs connected to 10V present on the respective (Base. control panel. 2. log error code & set fault indicators.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-ver switch
Service Action:	1. Check pin connection (pin 238. on connector 2. Check voltage on wire (pin 138. 3. Switch is in Neutral position
Other:	N/A



9.1.77 B1118-92

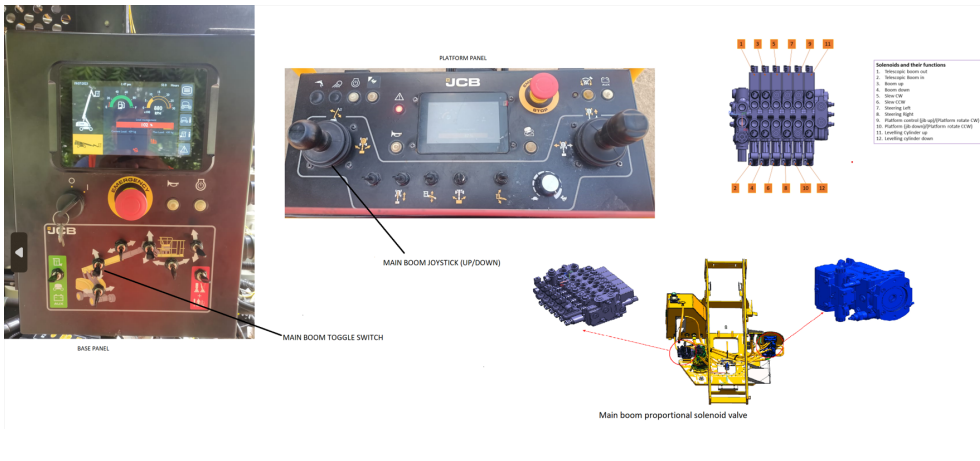
Error Code:	B1118-92
ECU	Bosch Base ECU
Description :	MAIN BOOM RAISE & LOWER (BASE) Switches both activated (5 - 10V)
Component :	Main Boom BASE PANEL PLATFORM PANEL MAIN BOOM JOYSTICK (UP/DOWN) MAIN BOOM TOGGLE SWITCH Main boom proportional solenoid valve

Vehicle reaction:	When MAIN BOOM RAISE & LOWER (BASE. Switches both activated (5 - 10V. : 1. It ignores the input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-ver switch
Service Action:	1. Check pin connection (pin 238. on connector 2. Check voltage on wire (pin 138. 3. Check pin connection (pin 239. on connector 4. Check voltage on wire (pin 239. 5. Switch is in Neutral position
Other:	N/A



9.1.78 B1119-16

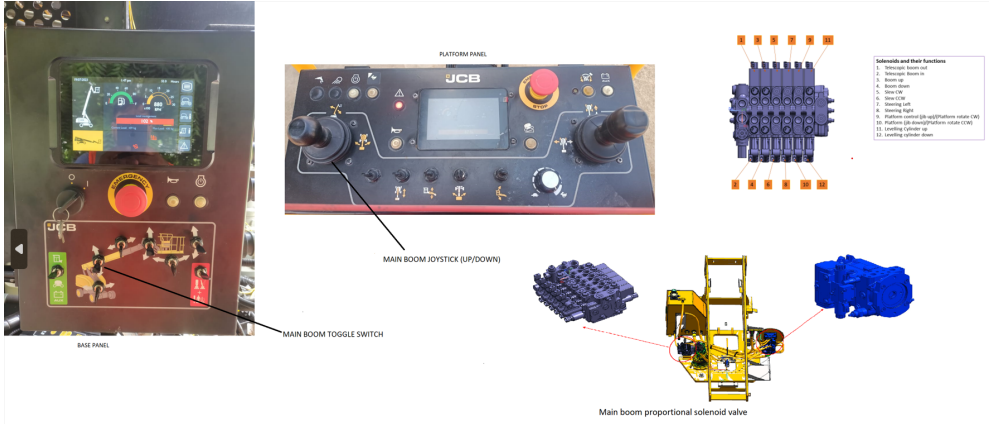
Error Code:	B1119-16
ECU	Bosch Base ECU
Description :	MAIN BOOM RAISE (BASE) Switch SC to Low
Component :	Main Boom

	
Vehicle reaction:	When MAIN BOOM RAISE (BASE. Switch SC to Low fault is detected before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators. When MAIN BOOM RAISE (BASE. Switch SC to Low fault is detected after operation: 1. It Blocks all inputs connected to 10V present on the respective (Base. control panel. 2. log error code & set fault indicators.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-ver switch
Service Action:	1. Check pin connection (pin 239. on connector 2. Check voltage on wire (pin 239. 3. Switch is in Neutral position
Other:	N/A



9.1.79 B1120-16

Error Code:	B1120-16
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ECU	Bosch Base ECU
Description :	MAIN BOOM LOWER (BASE) Switch SC to Low
Component :	Main Boom  The collage contains four images: 1. A photograph of the JCB Base Panel showing a red emergency stop button and various control switches. 2. A photograph of the JCB Platform Panel showing a joystick labeled 'MAIN BOOM JOYSTICK (UP/DOWN)' and a toggle switch labeled 'MAIN BOOM TOGGLE SWITCH'. 3. A technical diagram of a solenoid valve with a legend titled 'Solenoids and their functions' listing: 1. Retract boom out, 2. Retract boom in, 3. Retract boom, 4. Retract boom, 5. Retract boom, 6. Retract boom, 7. Retract boom, 8. Retract boom, 9. Retract boom, 10. Retract boom, 11. Retract boom, 12. Retract boom, 13. Retract boom, 14. Retract boom, 15. Retract boom. 4. A 3D model of the main boom proportional solenoid valve.
Vehicle reaction:	When MAIN BOOM LOWER (BASE. Switch SC to Low fault is detected before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators. When MAIN BOOM LOWER (BASE. Switch SC to Low fault is detected after operation: 1. It Blocks all inputs connected to 10V present on the respective (Base. control panel. 2. log error code & set fault indicators.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-ver switch
Service Action:	1. Check pin connection (pin 238. on connector 2. Check voltage on wire (pin 138. 3. Switch is in Neutral position
Other:	N/A



9.1.80 B1121-17

Error Code:	B1121-17
ECU	Bosch Base ECU
Description:	SLEW RIGHT (BASE) Switch SC to High
Component:	Slew SLEW JOYSTICK / SWITCH Slew proportional solenoid valve
Vehicle reaction:	When SLEW RIGHT (BASE. Switch SC to High is detected Before operation: 1. It ignores the slew input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators. When SLEW RIGHT (BASE. Switch SC to High is detected After operation: 1. It Blocks all inputs connected to 10V present on the respective (Base. control panel. 2. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive

	part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 134. on connector 2. Check voltage on wire (pin 134. 3. Switch is in Neutral position
Other:	N/A



9.1.81 B1122-17

Error Code:	B1122-17
ECU	Bosch Base ECU
Description :	SLEW LEFT (BASE) Switch SC to High
Component :	Slew Slew proportional solenoid valve Solenoids and their functions 1. Telescope boom out 2. Telescope boom in 3. Boom up 4. Boom down 5. Slew CW 6. Slew CCW 7. Steering Left 8. Steering Right 9. Platform control (lift up)/(Platform rotate CW) 10. Platform (lift down)/(Platform rotate CCW) 11. Leveling cylinder up 12. Leveling cylinder down
Vehicle reaction:	When SLEW LEFT (BASE. Switch SC to High is detected Before operation: 1. It ignores the Slew input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators.

	When SLEW LEFT (BASE. Switch SC to High is detected After operation: 1. It Blocks all inputs connected to 10V present on the respective (Base. control panel. 2. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 247. on connector 2. Check voltage on wire (pin 247. 3. Switch is in Neutral position
Other:	N/A



9.1.82 B1123-92

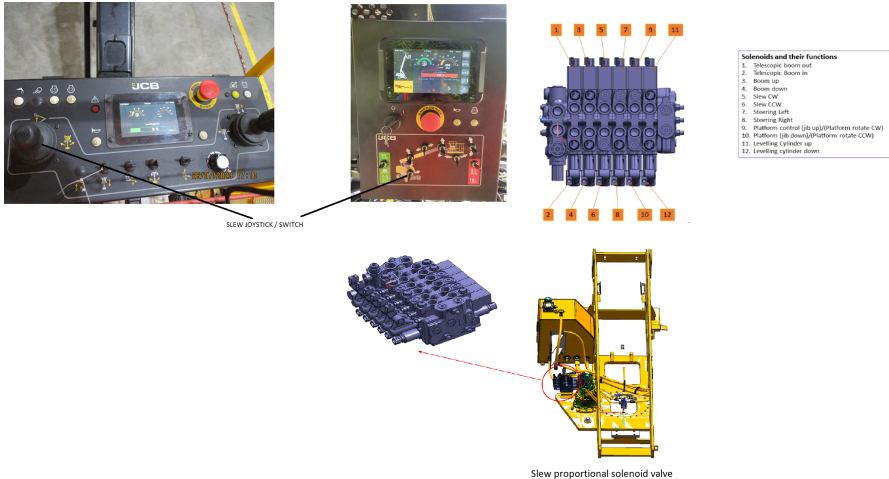
Error Code:	B1123-92
ECU	Bosch Base ECU
Description :	SLEW RIGHT & LEFT (BASE) Switches both activated (5 - 10V)
Component :	Slew

	Solenoids and their functions 1. Telescope boom out 2. Telescope boom in 3. Boom up 4. Boom down 5. Slew CW 6. Slew CCW 7. Steering left 8. Steering right 9. Platform control (jib up)/(Platform rotate CW) 10. Platform (jib down)/(Platform rotate CCW) 11. Leveling cylinder up 12. Leveling cylinder down Slew proportional solenoid valve
Vehicle reaction:	When SLEW RIGHT & LEFT (BASE. Switches both activated (5 - 10V. : 1. It ignores the input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 134. on connector 2. Check voltage on wire (pin 134. 3. Check pin connection (pin 247. on connector 4. Check voltage on wire (pin 247. 5. Switch is in Neutral position
Other:	N/A



9.1.83 B1124-16

Error Code:	B1124-16
ECU	Bosch Base ECU

Description :	SLEW RIGHT (BASE) Switch SC to Low
Component :	Slew  The component section contains several images: a close-up of the 'SLEW RIGHT (BASE) Switch SC to Low' on the operator's control panel; a hydraulic solenoid valve assembly; a diagram of the solenoid valve with 12 numbered ports and a legend titled 'Solenoids and their Functions'; and a 3D model of the machine's slewing mechanism with a red circle highlighting the 'Slew proportional solenoid valve'. Solenoids and their Functions 1. Hydraulic boom lift 2. Hydraulic boom lift 3. Boom up 4. Boom down 5. Slew CW 6. Slew CCW 7. Steering Left 8. Steering Right 9. Platform control (Up/Down) (Platform rotate CW) 10. Platform (Up/Down) (Platform rotate CCW) 11. Leveling Cylinder up 12. Leveling cylinder down
Vehicle reaction:	When SLEW RIGHT (BASE. Switch SC to Low is detected Before operation: 1. It ignores the Slew input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators. When SLEW RIGHT (BASE. Switch SC to Low is detected After operation: 1. It Blocks all inputs connected to 10V present on the respective (Base. control panel. 2. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 134. on connector 2. Check voltage on wire (pin 134. 3. Switch is in Neutral position

Other:	N/A
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9.1.84 B1125-16

Error Code:	B1125-16
ECU	Bosch Base ECU
Description :	SLEW LEFT (BASE) Switch SC to Low
Component :	Slew SLEW JOYSTICK / SWITCH Slew proportional solenoid valve Solenoids and their functions 1. Telescope boom out 2. Telescope boom in 3. Boom up 4. Boom down 5. Slew CW 6. Slew CCW 7. Steering left 8. Steering right 9. Platform control (lift up)/(Platform rotate CW) 10. Platform (lift down)/(Platform rotate CCW) 11. Leveling cylinder up 12. Leveling cylinder down
Vehicle reaction:	When SLEW LEFT (BASE. Switch SC to Low is detected Before operation: 1. It ignores the Slew input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators. When SLEW LEFT (BASE. Switch SC to Low is detected After operation: 1. It Blocks all inputs connected to 10V present on the respective (Base. control panel. 2. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors.

	2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 247. on connector 2. Check voltage on wire (pin 247. 3. Switch is in Neutral position
Other:	N/A



9.1.85 B1126-17

Error Code:	B1126-17
ECU	Bosch Base ECU
Description :	MAIN BOOM Lower Limit Switch 1 SC to High
Component :	Main Boom Lower Limit Switch  BOOM DOWN LIMIT SWITCH
Vehicle reaction:	When MAIN BOOM Lower Limit Switch 1 SC to High fault is detected: 1. default to raised Position. 2. It prevents main boom raise & extend, and articulated boom

	raise 3. log error code & set fault indicators.
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 223. on connector 2. Check voltage on wire (pin 223. 3. Machine restart
Other:	N/A



9.1.86 B1127-17

Error Code:	B1127-17
ECU	Bosch Base ECU
Description :	MAIN BOOM Lower Limit Switch 2 SC to High
Component :	Main Boom Lower Limit Switch



BOOM DOWN LIMIT SWITCH

**Vehicle
reaction:**

When MAIN BOOM Lower Limit Switch2 SC to High fault is detected:

1. default to raised Position.
2. It prevents main boom raise & extend, and articulated boom

	raise 3. log error code & set fault indicators.
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 237. on connector 2. Check voltage on wire (pin 237. 3. Machine restart
Other:	N/A



9.1.87 B1128-16

Error Code:	B1128-16
ECU	Bosch Base ECU
Description :	MAIN BOOM Lower Limit Switch 1 SC to Low
Component :	Main Boom Lower Limit Switch 
Vehicle reaction:	When MAIN BOOM Lower Limit Switch 1 SC to Low fault is detected: 1. default to raised Position. 2. It prevents main boom raise & extend, and articulated boom

	raise 3. log error code & set fault indicators.
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 223. on connector 2. Check voltage on wire (pin 223. 3. Machine restart
Other:	N/A



9.1.88 B1129-13

Error Code:	B1129-13
ECU	Bosch Base ECU
Description :	MAIN BOOM Lower Limit Switch 1 AND Switch 2 OC
Component :	Main Boom Lower Limit Switch 
Vehicle reaction:	When MAIN BOOM Lower Limit Switch 1 AND Switch 2 OC fault is detected: 1. default to raised Position. 2. It prevents main boom raise & extend, and articulated boom

	raise 3. log error code & set fault indicators.
Possible Cause:	1. Open circuit of any conductor. 2. Interruption in power supply. 3. No operation of switch due to mechanical failure.
Service Action:	1. Check pin connection (pin 223. on connector 2. Check voltage on wire (pin 223. 3. Check pin connection (pin 237. on connector 4. Check voltage on wire (pin 237. 5. Machine restart
Other:	N/A



9.1.89 B1130-16

Error Code:	B1130-16
ECU	Bosch Base ECU
Description :	MAIN BOOM Lower Limit Switch 2 SC to Low
Component :	Main Boom Lower Limit Switch 
Vehicle reaction:	When MAIN BOOM Lower Limit Switch 2 SC to Low fault is detected: 1. default to raised Position. 2. It prevents main boom raise & extend, and articulated boom

	raise 3. log error code & set fault indicators.
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 237. on connector 2. Check voltage on wire (pin 237. 3. Machine restart
Other:	N/A



9.1.90 B1131-2F

Error Code:	B1131-2F
ECU	Bosch Base ECU
Description	MAIN BOOM Lower Limit Switch 1 AND Switch 2 Short to 10V :
Component	Main Boom Lower Limit Switch 
Vehicle reaction:	When MAIN BOOM Lower Limit Switch 1 AND Switch 2 Short to 10V fault is detected: 1. default to raised Position. 2. It prevents main boom raise & extend, and articulated boom

	raise 3. log error code & set fault indicators.
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 223. on connector 2. Check voltage on wire (pin 223. 3. Check pin connection (pin 237. on connector 4. Check voltage on wire (pin 237. 5. Machine restart
Other:	N/A



9.1.91 B1144-17

Error Code:	B1144-17
ECU	Bosch Base ECU
Description :	10V INPUT System SC to High
Component :	10V Input System
Vehicle reaction:	When 10V INPUT System SC to High fault is detected: 1. It Blocks all inputs connected to 10V present on the respective control panel. 2. log error code & set fault indicators
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding.

	3. The short circuit between the three connections of a change-ver switch
Service Action:	1. Check all the pin connector connectedd at the 10 V input system. 2. check the voltage of the pins coonected at the 10 V input system. 3. Machine restart
Other:	N/A



9.1.92 B1145-16

Error Code:	B1145-16
ECU	Bosch Base ECU
Description :	10V INPUT System SC to Low
Component :	10V Input System
Vehicle reaction:	When 10V INPUT System SC to Low is detected: 1. It Blocks all inputs connected to 10V present on the respective control panel. 2. log error code & set fault indicators
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-ver switch
Service Action:	1. Check all the pin connector connectedd at the 10 V input system. 2. check the voltage along the 10 V input system. 3. Machine restart
Other:	N/A



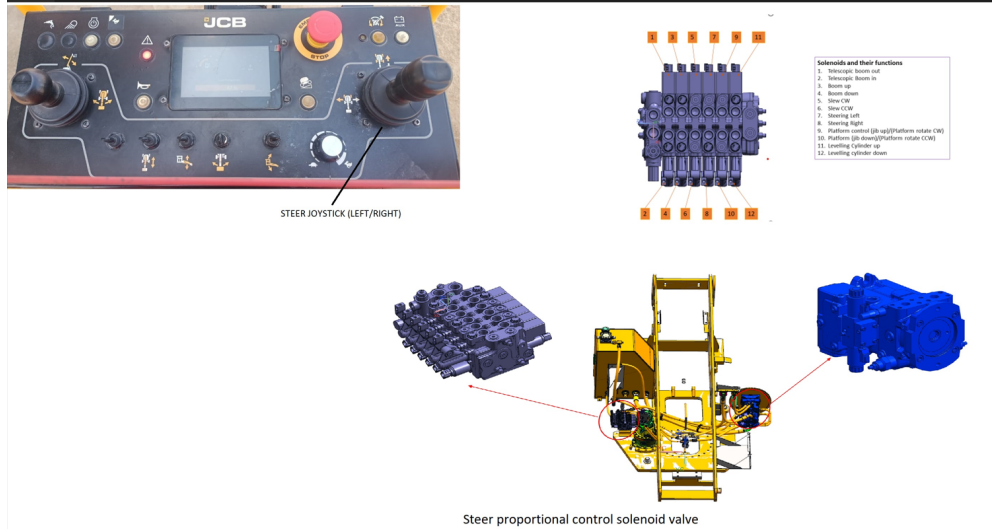
9.1.93 B1146-17

Error Code:	B1146-17
ECU	Bosch Platform ECU
Description :	STEER JOYSTICK SC to High (>4.75V)
Component :	Steer
Vehicle reaction:	When STEER JOYSTICK SC to High (>4.75V. fault is detected: 1. It ignores steer input (machine stops immediately). 2. log error code & set fault indicator.
Possible Cause:	1. The Short between any two conductors. 2. Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Short circuit between all connections. 4. Short circuit between any two connections. 5. Random change of value.
Service Action:	1. Check pin connection (pin 141. on connector 2. Check voltage on wire (pin 141. 3. Joystick is in Neutral position

Other:	N/A
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JCB

9.1.94 B1147-16

Error Code:	B1147-16
ECU	Bosch Platform ECU
Description :	STEER JOYSTICK SC to Low (<0.25V) or OC
Component :	Steer 
Vehicle reaction:	When STEER JOYSTICK SC to Low (<0.25V. or OC fault is detected: 1. It ignores steer input (machine stops immediately). 2. log error code & set fault indicator.
Possible Cause:	1. The Short between any two conductors. 2. Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Short circuit between all connections. 4. Short circuit between any two connections. 5. Random change of value. 6. Open circuit of any conductor.

	7. Interruption in power supply. 8. Open circuit of individual connection.
Service Action:	1. Check pin connection (pin 141. on connector 2. Check voltage on wire (pin 141. 3. Joystick is in Neutral position
Other:	N/A



9.1.95 B1148-17

Error Code:	B1148-17
ECU	Bosch Platform ECU
Description :	LIFT JOYSTICK SC to High (>4.75V)
Component :	Main Boom
Vehicle reaction:	When LIFT JOYSTICK SC to High (>4.75V. fault is detected: 1. It ignore lift input. 2. log error code & set fault indicator.
Possible Cause:	1. The Short between any two conductors. 2. Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Short circuit between all connections.

	4. Short circuit between any two connections. 5. Random change of value.
Service Action:	1. Check pin connection (pin 164. on connector 2. Check voltage on wire (pin 164. 3. Joystick is in Neutral position
Other:	N/A



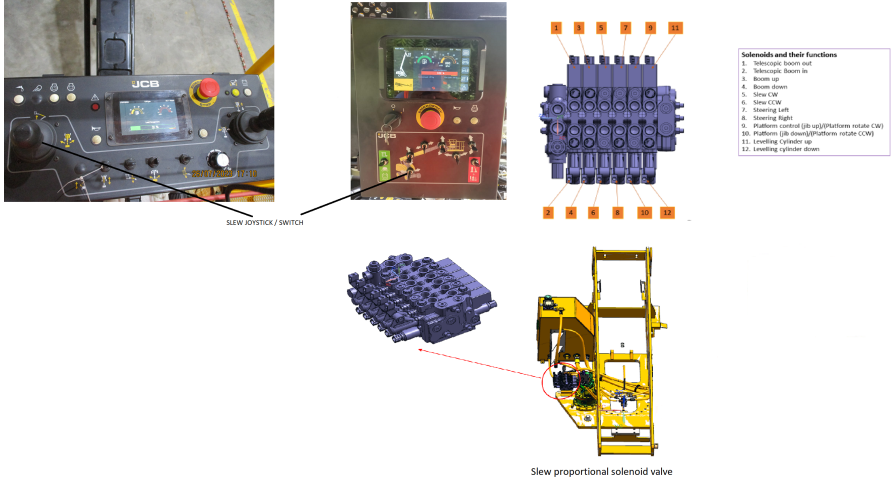
9.1.96 B1149-16

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Vehicle reaction:	When LIFT JOYSTICK SC to Low (<0.25V. or OC fault is detected: 1. It ignore lift input. 2. log error code & set fault indicator.																																																																																																																																																																																																								
Possible Cause:	1. The Short between any two conductors. 2. Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Short circuit between all connections.																																																																																																																																																																																																								

	4. Short circuit between any two connections. 5. Random change of value.
Service Action:	1. Check pin connection (pin 164. on connector 2. Check voltage on wire (pin 164. 3. Joystick is in Neutral position
Other:	N/A



9.1.97 B1150-17

Error Code:	B1150-17
ECU	Bosch Platform ECU
Description :	SLEW JOYSTICK SC to High (>4.75V)
Component :	Slew 
Vehicle reaction:	When SLEW JOYSTICK SC to High (>4.75V. fault is detected: 1. It ignores the Slew input. 2. log error code & set fault indicators.
Possible Cause:	1. The Short between any two conductors. 2. Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding.

	3. Short circuit between all connections. 4. Short circuit between any two connections. 5. Random change of value.
Service Action:	1. Check pin connection (pin 231. on connector 2. Check voltage on wire (pin 231. 3. Joystick is in Neutral position
Other:	N/A



9.1.98 B1151-16

Error Code:	B1151-16
ECU	Bosch Platform ECU
Description :	SLEW JOYSTICK SC to Low (<0.25V) or OC
Component :	Slew SLEW JOYSTICK / SWITCH Slew proportional solenoid valve Solenoids and their functions 1. Telescope boom out 2. Telescope boom in 3. Boom up 4. Boom down 5. Slew CW 6. Slew CCW 7. Steering left 8. Steering right 9. Platform control (lift up)/(Platform rotate CW) 10. Platform (lift down)/(Platform rotate CCW) 11. Leveling cylinder up 12. Leveling cylinder down
Vehicle reaction:	When SLEW JOYSTICK SC to Low (<0.25V. or OC fault is detected): 1. It ignores the Slew input. 2. log error code & set fault indicators.

Possible Cause:	1. The Short between any two conductors. 2. Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Short circuit between all connections. 4. Short circuit between any two connections. 5. Random change of value. 6. The open circuit of any conductor. 7. Interruption in power supply. 8. Open circuit of individual connection.
Service Action:	1. Check pin connection (pin 231. on connector 2. Check voltage on wire (pin 231. 3. Joystick is in Neutral position
Other:	N/A



9.1.99 B1177-16

Error Code:	B1177-16
ECU	Bosch Base ECU
Description :	BUZZER SC to Low
Component :	Buzzer
Vehicle reaction:	When BUZZER SC to Low fault detected: 1. It sets the fault code & fault indicators.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-ver switch
Service Action:	1. Check pin connection (pin 190. on connector 2. Check voltage on wire (pin 190. 3. Machine restart

Other:	N/A
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JCB

9.1.100 B1178-13

Error Code:	B1178-13
ECU	Bosch Base ECU
Description :	BUZZER OC OR SC to High
Component :	Buzzer
Vehicle reaction:	When BUZZER SC to High OR OC fault detected: 1. It sets the fault code & fault indicators.
Possible Cause:	For SC to High fault: 1. The Short circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. Does not de-energise. For OC fault : 1. Open circuit of any conductor. 2. Interruption in power supply. 3. No operation of switch due to mechanical failure.
Service Action:	1. Check pin connection (pin 190. on connector 2. Check voltage on wire (pin 190. 3. No input request
Other:	N/A

JCB

9.1.101 B1179-13

Error Code:	B1179-13
ECU	Bosch Base ECU

Description :	BEACON 1 OC
Component :	Beacon 
Vehicle reaction:	When BEACON 1 OC fault detected: 1. It sets the fault code & fault indicators.
Possible Cause:	1. Open circuit of any conductor. 2. Interruption in power supply. 3. No operation of switch due to mechanical failure.
Service Action:	1. Check pin connection (pin 243. on connector 2. Check voltage on wire (pin 243. 3. No input request
Other:	N/A



9.1.102 B1180-16

Error Code:	B1180-16
ECU	Bosch Base ECU
Description :	BEACON 1 SC to Low
Component :	Beacon 
Vehicle reaction:	When BEACON 1 SC to Low fault detected: 1. It sets the fault code & fault indicators.

Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch
Service Action:	1. Check pin connection (pin 243. on connector 2. Check voltage on wire (pin 243. 3. Machine restart
Other:	N/A



9.1.103 B1181-16

Error Code:	B1181-16
ECU	Bosch Base ECU
Description :	HORN HS SC to Low
Component :	  BASE PANEL PLATFORM PANEL HORN PUSH BUTTON
Vehicle reaction:	When HORN HS SC to Low fault is detected: 1. It sets the fault code & fault indicators.

Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch
Service Action:	1. Check pin connection (pin 244. on connector 2. Check voltage on wire (pin 244. 3. Machine restart
Other:	N/A



9.1.104 B1182-13

Error Code:	B1182-13
ECU	Bosch Base ECU
Description :	HORN HS OC
Component :	
Vehicle reaction:	When HORN HS OC fault is detected: 1. It sets the fault code & fault indicators.

Possible Cause:	1. Open circuit of any conductor. 2. Interruption in power supply. 3. No operation of switch due to mechanical failure.
Service Action:	1. Check pin connection (pin 244. on connector 2. Check voltage on wire (pin 244. 3. No input request
Other:	N/A



9.1.105 B1183-16

Error Code:	B1183-16
ECU	Bosch Base ECU
Description :	WHITE NOISE ALARM SC to Low
Component :	White Noise 
Vehicle reaction:	When WHITE NOISE ALARM SC to Low fault detected: 1. It logs the error and steers the fault indicator.
Possible Cause:	1. The Short circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding.
Service Action:	1. Check pin connection (pin 256. on connector 2. Check voltage on wire (pin 256. 3. Machine restart
Other:	N/A



9.1.106 B1184-13

Error Code:	B1184-13
ECU	Bosch Base ECU
Description :	WHITE NOISE ALARM OC
Component :	White Noise 
Vehicle reaction:	When WHITE NOISE ALARM OC fault detected: 1. It logs the error and stees the fault indicator.
Possible Cause:	1. Open circuit of any conductor. 2. Interruption in power supply. 3. No operation of switch due to mechanical failure.
Service Action:	1.Check pin connection (pin 256. on connector 2.Check voltage on wire (pin 256. 3. Machine restart
Other:	N/A



9.1.107 B1190-16

Error Code:	B1190-16
ECU	Bosch Base ECU
Description :	FAULT LED SC to Low

Component :	Fault Led 
Vehicle reaction:	When FAULT LED SC to Low fault detected: 1. It sets the fault code & fault indicators.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-ver switch
Service Action:	1. Check pin connection (pin 241. on connector 2. Check voltage on wire (pin 241. 3. Machine restart
Other:	N/A



9.1.108 B1191-17

Error Code:	B1191-17
ECU	Bosch Platform ECU
Description :	FAULT LED SC to High
Component :	Fault Led 

Vehicle reaction:	When FAULT LED SC to High fault detected: 1. It sets the fault code & fault indicators.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch
Service Action:	1. Check pin connection (pin 241. on connector 2. Check voltage on wire (pin 241. 3. Machine restart
Other:	N/A



9.1.109 B1198-16

Error Code:	B1198-16
ECU	Bosch Platform ECU
Description :	SLEW ACK LED SC to Low
Component :	Slew Ack Led 
Vehicle reaction:	When SLEW ACK LED SC to Low fault is detected: 1. log error code & set fault indicators.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bondin. 3. The Short circuit between the three connections of a change-over switch.

Service Action:	1.Check pin connection (pin 189. on connector 2.Check voltage on wire (pin 189. 3.Machine restart
Other:	N/A



9.1.110 B1199-17

Error Code:	B1199-17
ECU	Bosch Platform ECU
Description :	SLEW ACK LED SC to High
Component :	Slew Ack Led 
Vehicle reaction:	When SLEW ACK LED SC to High fault is detected: 1. log error code & set fault indicators
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1.Check pin connection (pin 189. on connector 2.Check voltage on wire (pin 189. 3. No input request
Other:	N/A



9.1.111 B1206-17

Error Code:	B1206-17
ECU	Bosch Platform ECU
Description :	HORN BUTTON SC to High
Component :	Horn   HORN PUSH BUTTON
Vehicle reaction:	When HORN BUTTON SC to High fault detected: 1. It disables the horn input & output. 2.log error code & set fault indicator.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-ver switch
Service Action:	1. Check pin connection (pin 252. on connector 2. Check voltage on wire (pin 252. 3. No input request.
Other:	N/A

9.1.112 B1207-16

Error Code:	B1207-16
ECU	Bosch Platform ECU
Description :	HORN BUTTON SC to Low
Component :	Horn   HORN PUSH BUTTON
Vehicle reaction:	When HORN BUTTON SC to High fault detected: 1.log error code & set fault indicator.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-ver switch
Service Action:	1. Check pin connection (pin 252. on connector 2. Check voltage on wire (pin 252. 3. No input request.
Other:	N/A



9.1.113 B1208-24

Error Code:	B1208-24
ECU	Bosch Platform ECU
Description :	HORN BUTTON Stuck for ≥ 10 seconds
Component :	Horn   HORN PUSH BUTTON
Vehicle reaction:	When HORN BUTTON Stuck for ≥ 10 seconds: 1. It disables the horn input & output. 2.log error code & set fault indicator.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-ver switch
Service Action:	1. Check pin connection (pin 252. on connector 2. Check voltage on wire (pin 252. 3. No input request.
Other:	N/A

9.1.114 B1215-17

Error Code:	B1215-17
ECU	Bosch Platform ECU
Description :	HYDRAULIC GENERATOR BUTTON SC to High
Component :	Hydraulic Generator  HYDRAULIC GENERATOR PUSH BUTTON
Vehicle reaction:	When HYDRAULIC GENERATOR BUTTON SC to High fault detected: 1. IT disables generator input & output. 2. log error code & set fault indicators.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-ver switch
Service Action:	1. Check pin connection (pin 225. on connector 2. Check voltage on wire (pin 225. 3. No input request.
Other:	N/A



9.1.115 B1216-16

Error Code:	B1216-16
ECU	Bosch Platform ECU

Description :	HYDRAULIC GENERATOR BUTTON SC to Low
Component :	Hydraulic Generator  HYDRAULIC GENERATOR PUSH BUTTON
Vehicle reaction:	When HYDRAULIC GENERATOR BUTTON SC to Low fault detected: 1. It disables generator input & output. 2. log error code & set fault indicators.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-ver switch
Service Action:	1. Check pin connection (pin 225. on connector 2. Check voltage on wire (pin 225. 3. No input request.
Other:	N/A



9.1.116 B1217-24

Error Code:	B1217-24
ECU	Bosch Platform ECU
Description :	HYDRAULIC GENERATOR BUTTON Stuck for ≥ 10 seconds
Component :	Hydraulic Generator

	 HYDRAULIC GENERATOR PUSH BUTTON
Vehicle reaction:	When HYDRAULIC GENERATOR BUTTON SC to Low fault detected: 1. It disables generator input & output. 2. log error code & set fault indicators.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-ver switch
Service Action:	1. Check pin connection (pin 225. on connector 2. Check voltage on wire (pin 225. 3. No input request.
Other:	N/A



9.1.117 B1221-17

Error Code:	B1221-17
ECU	Bosch Base ECU
Description :	LOAD SENSOR 1 OOR High
Component :	Load Sensor
Vehicle reaction:	When LOAD SENSOR 1 OOR High Fault is detetced: 1.It implements overload alarm. 2.It prevents all movements. 3. log error code & set fault indicator.

Possible Cause:	1. The Short circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding.
Service Action:	1. Check pin connection (pin 169. on connector 2. Check voltage on wire (pin 169. 3. No input request.
Other:	N/A



9.1.118 B1222-16

Error Code:	B1222-16
ECU	Bosch Base ECU
Description :	LOAD SENSOR 1 OOR Low OR OC
Component :	Load Sensor
Vehicle reaction:	When LOAD SENSOR 1 OOR Low or OC Fault is detected: 1.It implements overload alarm. 2.It prevents all movements. 3. log error code & set fault indicator.
Possible Cause:	For Sc to Low: 1. The Short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. For OC: 1. The Open circuit of any conductor . 2. The Interruption in power supply. 3. No operation of switch due to mechanical failure .
Service Action:	1. Check pin connection (pin 169. on connector 2. Check voltage on wire (pin 169. 3. No input request.

Other:	N/A
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9.1.119 B1223-17

Error Code:	B1223-17
ECU	Bosch Base ECU
Description :	LOAD SENSOR 2 OOR High
Component :	Load Sensor
Vehicle reaction:	When LOAD SENSOR 2 OOR High Fault is detected: 1.It implements overload alarm. 2.It prevents all movements. 3. log error code & set fault indicator.
Possible Cause:	1. The Short circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding.
Service Action:	1. Check pin connection (pin 170. on connector 2. Check voltage on wire (pin 170. 3. No input request.
Other:	N/A



9.1.120 B1224-16

Error Code:	B1224-16
ECU	Bosch Base ECU
Description :	LOAD SENSOR 2 OOR Low OR OC

Component :	Load Sensor
Vehicle reaction:	When LOAD SENSOR 2 OOR Low or OC Fault is detected: 1.It implements overload alarm. 2.It prevents all movements. 3. log error code & set fault indicator.
Possible Cause:	For Sc to Low: 1. The Short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. For OC: 1. The Open circuit of any conductor . 2. The Interruption in power supply. 3. No operation of switch due to mechanical failure .
Service Action:	1. Check pin connection (pin 170. on connector 2. Check voltage on wire (pin 170. 3. No input request.
Other:	N/A



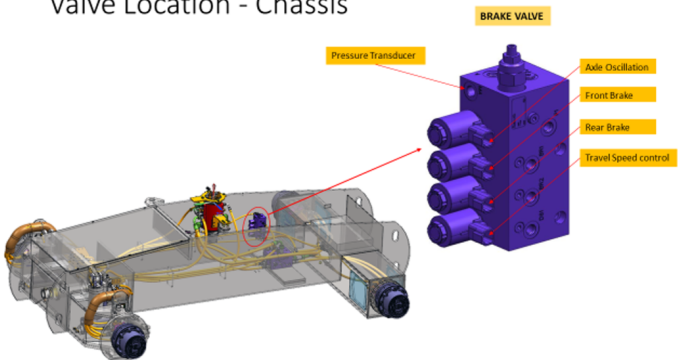
9.1.121 B1225-2F

Error Code:	B1225-2F
ECU	Bosch Base ECU
Description :	LOAD SENSOR Data Erratic (Difference > 20%)
Component :	Load Sensor
Vehicle reaction:	When LOAD SENSOR Data Erratic (Difference > 20%. Fault is detected: 1.It implements overload alarm.

	2.It prevents all movements. 3. log error code & set fault indicator.
Possible Cause:	1. The Short circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding.
Service Action:	1. Check pin connection (pin 169. on connector 2. Check voltage on wire (pin 169. 3. Check pin connection (pin 170. on connector 4. Check voltage on wire (pin 170. 5. No input request.
Other:	N/A



9.1.122 B1227-17

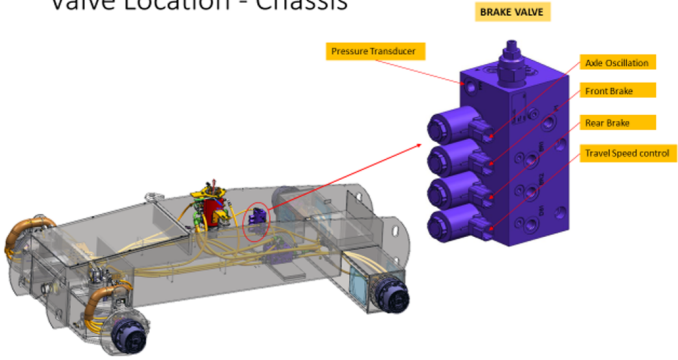
Error Code:	B1227-17
ECU	Bosch Base ECU
Description :	AXLE LOCK PRESSURE SENSOR SC to High
Component :	Oscillating Axle  Valve Location - Chassis  oscillating axle pressure sensor
Vehicle reaction:	When AXLE LOCK PRESSURE SENSOR SC to High fault is detected: 1. It prevents all raise, extend & slew movements

	2. It prevents drive in the raised and/or slewed position (only allow drive in stowed, forward position). 3.log error code & set fault indicator.
Possible Cause:	1. The Short between any two conductors. 2. Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Short circuit between the three connections of a change-over switch. 4. Faults in all or part of the function including software faults . 5. Short circuit between any two connections. 6. Stuck-at-fault. 7. Parasitic oscillation outputs. 8. Changing value. 9. Undetected faults in the hardware.
Service Action:	1. Check pin connection (pin 227. on connector 2. Check voltage on wire (pin 227. 3. No input request
Other:	N/A



9.1.123 B1228-16

Error Code:	B1228-16
ECU	Bosch Base ECU
Description :	AXLE LOCK PRESSURE SENSOR SC to Low or OC
Component :	Oscillating Axle

	 oscillating axle pressure sensor Valve Location - Chassis 
Vehicle reaction:	When AXLE LOCK PRESSURE SENSOR SC to Low or OC fault is detected: 1. It prevents all raise, extend & slew movements 2. It prevents drive in the raised and/or slewed position (only allow drive in stowed, forward position. 3.log error code & set fault indicator.
Possible Cause:	1. Open circuit of any conductor. 2. Interruption in power supply. 3. No operation of switch due to mechanical failure. 4. Faults in all or part of the function including software faults . 5. Short circuit between any two connections. 6. Stuck-at-fault. 7. Parasitic oscillation outputs. 8. Changing value. 9. Undetected faults in the hardware.
Service Action:	1. Check pin connection (pin 227. on connector 2. Check voltage on wire (pin 227. 3. No input request
Other:	N/A



9.1.124 B1232-17

Error Code:	B1232-17
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ECU	Bosch Base ECU
Description :	FUEL SENDER OOR High OR DIRTY AIR FIRTLE SC to HIGH OR COOLANT LEVEL SWITCH SC to HIGH
Component :	Fuel Sensor
Vehicle reaction:	When FUEL SENDER OOR High OR DIRTY AIR FIRTLE SC to HIGH OR COOLANT LEVEL SWITCH SC to HIGH fault is detected: 1.log fault code & set fault indicators. 2. It reads the Resistance more than 183 ohms. 3.It sends the low fuel level warning to display.
Possible Cause:	1. The Short circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding.
Service Action:	1. Check pin connection (pin 121. on connector 2. Check voltage on wire (pin 121. 3. Check pin connection (pin 118. on connector 4. Check voltage on wire (pin 118. 4. Check pin connection (pin 116. on connector 6. Check voltage on wire (pin 116. 7.No input request
Other:	N/A

JCB**9.1.125 B1233-16**

Error Code:	B1233-16
ECU	Bosch Base ECU
Description :	FUEL SENDER OOR Low
Component :	Fuel Sensor

Vehicle reaction:	When FUEL SENDER OOR Low fault detected: 1.log fault code & set fault indicators. 2. It reads the Resistance less than 5 ohms. 3.It sends the low fuel level warning to display.
Possible Cause:	1. The Short circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding.
Service Action:	1. Check pin connection (pin 121. on connector 2. Check voltage on wire (pin 121. 3.No input request
Other:	N/A



9.1.126 B1235-17

Error Code:	B1235-17
ECU	Bosch Platform ECU
Description :	E-Stop Plausibility Check
Component :	E-Stop   EMERGENCY STOP

Vehicle reaction:	when E-stop (Emergency stop pressed. pausability check is detected on the machine: 1. It disable all outputs except CAN Communication. 2. log error code & set fault indicator.
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Release the platform E-Stop in case it is pressed. 2. Chek base E-stop inputs for Sc to battery ,SC to Ground and OC. 3. Machine restart
Other:	N/A



9.1.127 B1239-17

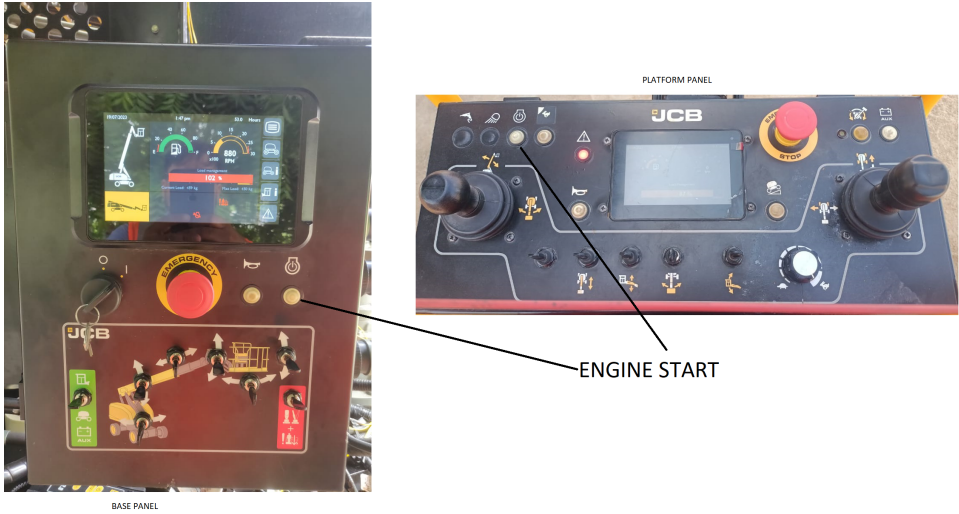
Error Code:	B1239-17
ECU	Bosch Platform ECU
Description :	ENGINE START BUTTON SC to High
Component :	Engine

	
Vehicle reaction:	When ENGINE START BUTTON SC to High Fault is detected: 1. It disables engine start input & output. 2. log error code & set fault indicators
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 250. on connector 2. Check voltage on wire (pin 250. 3.No input request
Other:	N/A



9.1.128 B1240-16

Error Code:	B1240-16
ECU	Bosch Platform ECU
Description :	ENGINE START BUTTON SC to Low

Component :	Engine 
Vehicle reaction:	When ENGINE START BUTTON SC to Low Fault is detected: 1. log error code & set fault indicators 2. Switch OFF the engine.
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 250. on connector 2. Check voltage on wire (pin 250. 3.No input request
Other:	N/A



9.1.129 B1241-24

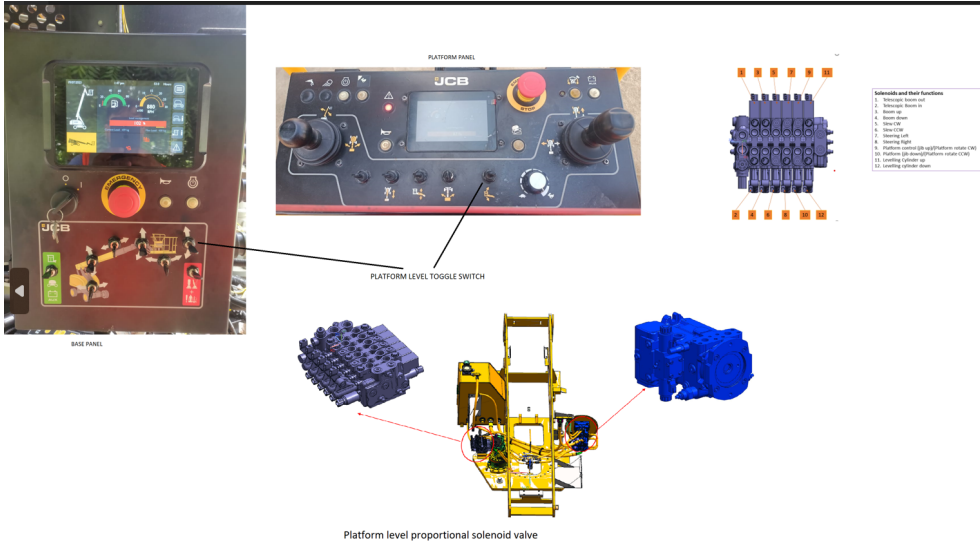
Error Code:	B1241-24
ECU	Bosch Platform ECU

Description :	ENGINE START BUTTON Stuck for ≥ 10 seconds
Component :	Engine 
Vehicle reaction:	When ENGINE START BUTTON Stuck for ≥ 10 seconds Fault is detected: 1. It disables engine start input & output. 2. log error code & set fault indicators
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 250. on connector 2. Check voltage on wire (pin 250. 3.No input request
Other:	N/A



9.1.130 B1242-17

Error Code:	B1242-17
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ECU	Bosch Platform ECU
Description :	PLATFORM LEVELLING RAISE Switch SC to High
Component :	Platform Level 
Vehicle reaction:	When PLATFORM LEVELLING RAISE Switch SC to High fault is detected Before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators. When PLATFORM LEVELLING RAISE Switch SC to High fault is detected After operation (in case of STto12V.): 1. It Blocks all inputs connected to 10V present on the respective (Platform. control panel. 2. log error code & set fault indicators.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-ver switch
Service Action:	1. Check pin connection (pin 210. on connector 2. Check voltage on wire (pin 210.

	3. Switch is in Neutral position
Other:	N/A



9.1.131 B1243-17

Error Code:	B1243-17
ECU	Bosch Platform ECU
Description :	PLATFORM LEVELLING LOWER Switch SC to High
Component :	Platform Level PLATFORM LEVEL TOGGLE SWITCH Platform level proportional solenoid valve Solenoids and their Functions 1. Lifting cylinder up 2. Lifting cylinder down 3. Lowering cylinder up 4. Lowering cylinder down 5. Steering left 6. Steering right 7. Steering left 8. Steering right 9. Platform control (SC) (Platform control ON) 10. Platform control (SC) (Platform control OFF) 11. Lifting cylinder up 12. Lifting cylinder down
Vehicle reaction:	When PLATFORM LEVELLING LOWER Switch SC to High fault is detected Before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators. When PLATFORM LEVELLING LOWER Switch SC to High fault is detected After operation (in case of STto12V.: 1. It Blocks all inputs connected to 10V present on the respective

	(Platform. control panel. 2. log error code & set fault indicators.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-ver switch
Service Action:	1. Check pin connection (pin 209. on connector 2. Check voltage on wire (pin 209. 3. Switch is in Neutral position
Other:	N/A



9.1.132 B1244-92

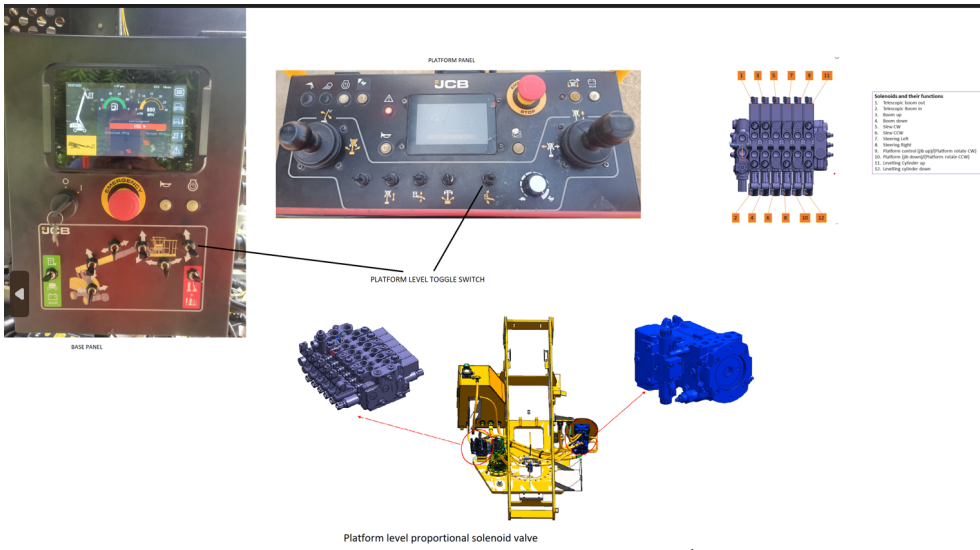
Error Code:	B1244-92
ECU	Bosch Platform ECU
Description :	PLATFORM LEVELLING RAISE and LOWER Switches both activated (5 - 10V)
Component :	Platform Level

Vehicle reaction:	When PLATFORM LEVELLING RAISE and LOWER Switches both activated (5 - 10V. : 1. It ignores the input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-ver switch
Service Action:	1. Check pin connection (pin 209. on connector 2. Check voltage on wire (pin 209. 3. Check pin connection (pin 210. on connector 4. Check voltage on wire (pin 210. 5. Switch is in Neutral position
Other:	N/A

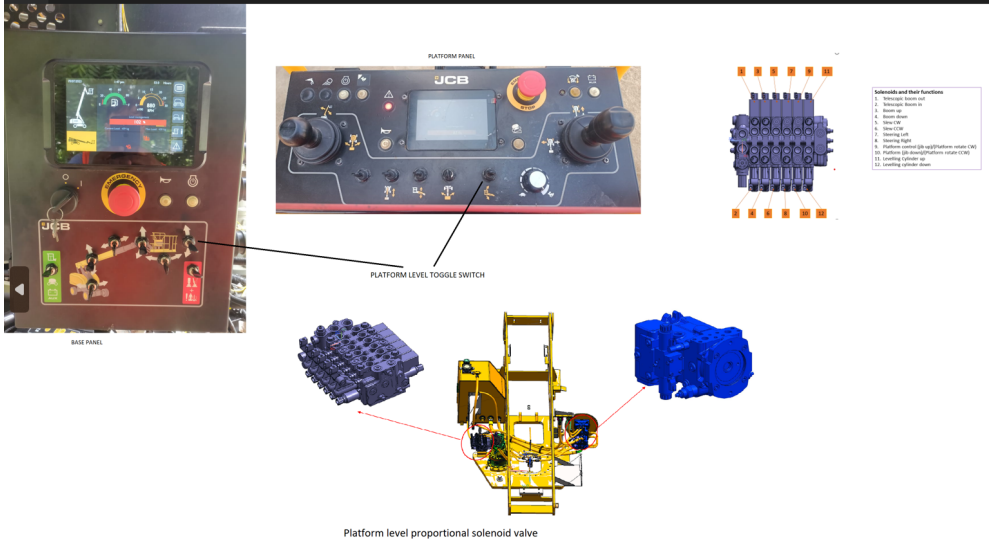


9.1.133 B1245-16

Error Code:	B1245-16
ECU	Bosch Platform ECU
Description :	PLATFORM LEVELLING RAISE Switch SC to Low
Component :	Platform Level

	 Solenoids and their functions 1. Steering Solenoid 2. Steering Solenoid 3. Steering Solenoid 4. Steering Solenoid 5. Steering Solenoid 6. Steering Solenoid 7. Steering Solenoid 8. Steering Solenoid 9. Steering Solenoid 10. Platform level up (Platform mode) 11. Platform level down (Platform mode) 12. Leveling Solenoid 13. Leveling Solenoid 14. Leveling Solenoid
Vehicle reaction:	When PLATFORM LEVELLING RAISE Switch SC to Low fault is detected Before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault). 2. log error code & set fault indicators. When PLATFORM LEVELLING RAISE Switch SC to Low fault is detected After operation (in case of STto12V.): 1. It Blocks all inputs connected to 10V present on the respective (Base. control panel). 2. log error code & set fault indicators.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch
Service Action:	1. Check pin connection (pin 210. on connector 2. Check voltage on wire (pin 210. 3. Switch is in Neutral position
Other:	N/A

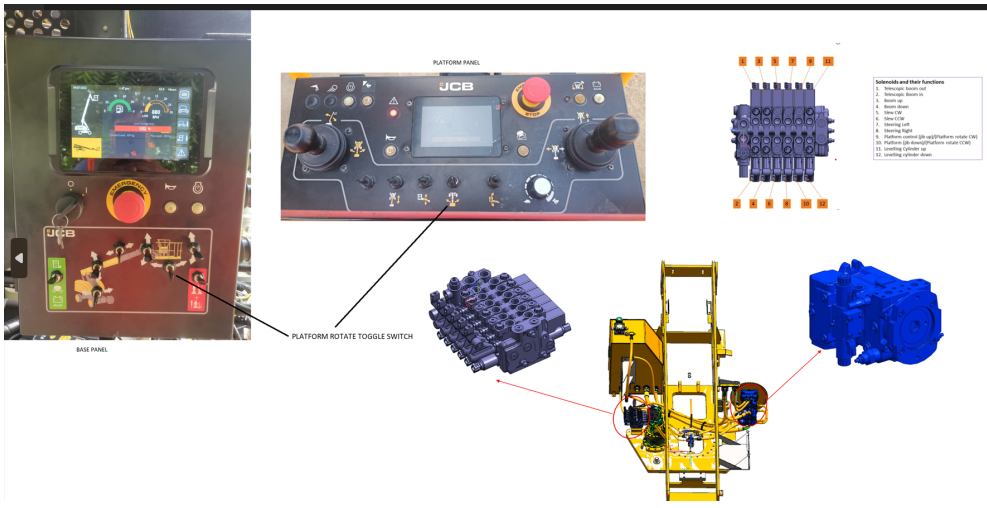
9.1.134 B1246-16

Error Code:	B1246-16
ECU	Bosch Platform ECU
Description :	PLATFORM LEVELLING LOWER Switch SC to Low
Component :	Platform Level 
Vehicle reaction:	When PLATFORM LEVELLING LOWER Switch SC to Low fault is detected Before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators. When PLATFORM LEVELLING LOWER Switch SC to Low fault is detected After operation (in case of STto12V.: 1. It Blocks all inputs connected to 10V present on the respective (Base. control panel. 2. log error code & set fault indicators.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-ver switch

Service Action:	1. Check pin connection (pin 209. on connector 2. Check voltage on wire (pin 209. 3. Switch is in Neutral position
Other:	N/A



9.1.135 B1252-17

Error Code:	B1252-17
ECU	Bosch Platform ECU
Description :	MAIN BOOM TELESCOPE EXTEND Switch SC to High
Component :	Platform Rotate 
Vehicle reaction:	When MAIN BOOM TELESCOPE EXTEND Switch SC to High fault is detected Before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators. When MAIN BOOM TELESCOPE EXTEND Switch SC to High fault is detected after operation: 1. It Blocks all inputs connected to 10V present on the

	respective(Platform. control panel. 2. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 144. on connector 2. Check voltage on wire (pin 144. 3. Switch is in Neutral position
Other:	N/A



9.1.136 B1253-17

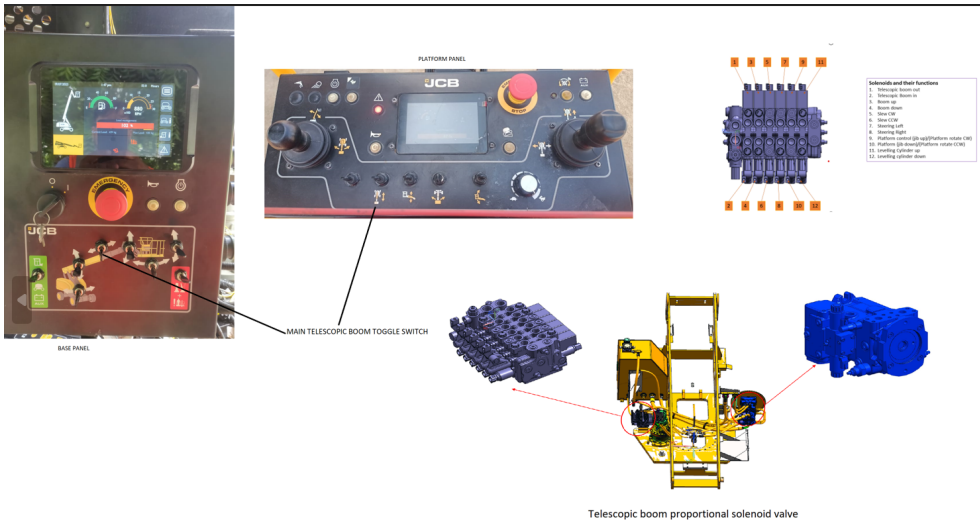
Error Code:	B1253-17
ECU	Bosch Platform ECU
Description :	MAIN BOOM TELESCOPE RETRACT Switch SC to High
Component :	Main Telescopic Boom

Vehicle reaction:	When MAIN BOOM TELESCOPE RETRACT Switch SC to High fault is detected Before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators. When MAIN BOOM TELESCOPE RETRACT Switch SC to High fault is detected after operation: 1. It Blocks all inputs connected to 10V present on the respective(Platform. control panel. 2. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 142. on connector 2. Check voltage on wire (pin 142. 3. Switch is in Neutral position
Other:	N/A



9.1.137 B1254-92

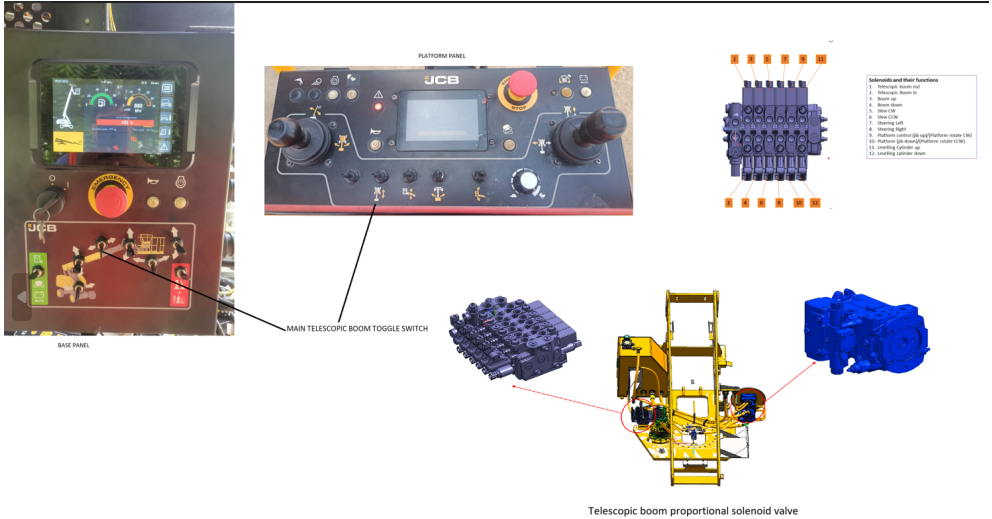
Error Code:	B1254-92
ECU	Bosch Platform ECU
Description :	MAIN BOOM TELESCOPE EXTEND & RETRACT Switches both activated (5 - 10V)
Component :	Main Telescopic Boom

	 The diagram illustrates the JCB control system components. It includes the Base Panel and Platform Panel, both featuring a digital display and various control buttons. A red line indicates the connection between the Platform Panel and the Telescopic boom proportional solenoid valve. A legend titled 'Solenoids and their functions' lists the following: 1. Telescopic boom up 2. Telescopic boom down 3. Boom up 4. Boom down 5. Steering left 6. Steering right 7. Platform rotate (pin up) Platform rotate (pin down) 8. Platform rotate (pin up) Platform rotate (pin down) 9. Working cylinder down 10. Working cylinder down
Vehicle reaction:	When MAIN BOOM TELESCOPE EXTEND & RETRACT Switches both activated (5 - 10V.: 1. It Ignores the input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 142. on connector 2. Check voltage on wire (pin 142. 3. Check pin connection (pin 144. on connector 4. Check voltage on wire (pin 144. 5. Switch is in Neutral position
Other:	N/A



9.1.138 B1255-16

Error Code:	B1255-16
ECU	Bosch Platform ECU

Description :	MAIN BOOM TELESCOPE EXTEND Switch SC to Low
Component :	Main Telescopic Boom  The diagram illustrates the components involved in the fault. It shows the Platform Panel and Base Panel with the Main Telescopic Boom Toggle Switch. A separate image shows the Telescopic boom proportional solenoid valve. A legend titled 'Solenoids and their functions' lists: 1. Telescopic boom out, 2. Telescopic boom in, 3. Boom up, 4. Boom down, 5. Turn left, 6. Turn right, 7. Steering left, 8. Steering right, 9. Platform control (pin 144) platform valve (C4), 10. Platform (pin 144) platform valve (C4), 11. Steering cylinder up, 12. Steering cylinder down.
Vehicle reaction:	When MAIN BOOM TELESCOPE EXTEND Switch SC to Low fault is detected Before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators. When MAIN BOOM TELESCOPE EXTEND Switch SC to Low fault is detected after operation: 1. It Blocks all inputs connected to 10V present on the respective(Platform. control panel. 2. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 144. on connector 2. Check voltage on wire (pin 144. 3. Switch is in Neutral position

Other:	N/A
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9.1.139 B1256-16

Error Code:	B1256-16
ECU	Bosch Platform ECU
Description :	MAIN BOOM TELESCOPE RETRACT Switch SC to Low
Component :	Main Telescopic Boom The diagram illustrates the components involved in the B1256-16 fault. It shows the Platform Panel with the Main Telescopic Boom Toggle Switch, the Base Panel, and the Telescopic boom proportional solenoid valve. A legend titled 'Solenoids and their functions' lists the following: 1. Telescopic Boom up 2. Telescopic Boom down 3. Boom up 4. Boom down 5. Boom lift 6. Boom lift 7. Boom lift 8. Platform (for applications other than 100) 9. Platform (for applications other than 100) 10. Landing cylinder up 11. Landing cylinder down
Vehicle reaction:	When MAIN BOOM TELESCOPE RETRACT Switch SC to Low fault is detected Before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators. When MAIN BOOM TELESCOPE RETRACT Switch SC to Low fault is detected after operation: 1. It Blocks all inputs connected to 10V present on the respective(Platform. control panel. 2. log error code & set fault indicators.

Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 142. on connector 2. Check voltage on wire (pin 142. 3. Switch is in Neutral position
Other:	N/A



9.1.140 B1257-17

Error Code:	B1257-17
ECU	Bosch Platform ECU
Description :	PLATFORM ROTATE RIGHT Switch SC to High
Component :	Platform Rotate
Vehicle reaction:	When PLATFORM ROTATE RIGHT Switch SC to High fault is detected Before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault.

	2. log error code & set fault indicators. When PLATFORM ROTATE RIGHT Switch SC to High fault is detected after operation: 1. It Blocks all inputs connected to 10V present on the respective (Platform. control panel. 2. log error code & set fault indicators
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-ver switch
Service Action:	1. Check pin connection (pin 211. on connector 2. Check voltage on wire (pin 211. 3. Switch is in Neutral position
Other:	N/A

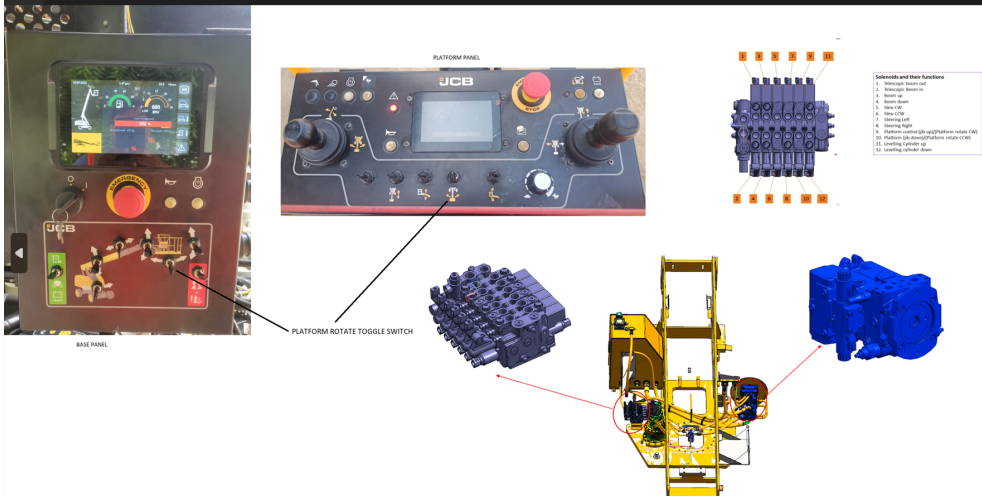


9.1.141 B1258-17

Error Code:	B1258-17
ECU	Bosch Platform ECU
Description :	PLATFORM ROTATE LEFT Switch SC to High
Component :	Platform Rotate

Vehicle reaction:	When PLATFORM ROTATE LEFT Switch SC to High fault is detected Before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators. When PLATFORM ROTATE LEFT Switch SC to High fault is detected after operation: 1. It Blocks all inputs connected to 10V present on the respective (Platform. control panel. 2. log error code & set fault indicators
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-ver switch
Service Action:	1. Check pin connection (pin 212. on connector 2. Check voltage on wire (pin 212. 3. Switch is in Neutral position
Other:	N/A

9.1.142 B1259-92

Error Code:	B1259-92
ECU	Bosch Platform ECU
Description :	PLATFORM ROTATE RIGHT & LEFT Switches both activated (5 - 10V)
Component :	Platform Rotate 
Vehicle reaction:	When PLATFORM ROTATE RIGHT & LEFT Switches both activated (5 - 10V.): 1. It ignores the input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch
Service Action:	1. Check pin connection (pin 212. on connector 2. Check voltage on wire (pin 212. 3. Check pin connection (pin 211. on connector 4. Check voltage on wire (pin 211. 5. Switch is in Neutral position
Other:	N/A



9.1.143 B1260-16

Error Code:	B1260-16
ECU	Bosch Platform ECU
Description :	PLATFORM ROTATE RIGHT Switch SC to Low
Component :	Platform Rotate
Vehicle reaction:	When PLATFORM ROTATE RIGHT Switch SC to Low fault is detected Before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators. When PLATFORM ROTATE RIGHT Switch SC to Low fault is detected after operation: 1. It Blocks all inputs connected to 10V present on the respective (Platform. control panel. 2. log error code & set fault indicators
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding.

	3. The short circuit between the three connections of a change-over switch
Service Action:	1. Check pin connection (pin 211. on connector 2. Check voltage on wire (pin 211. 3. Switch is in Neutral position
Other:	N/A



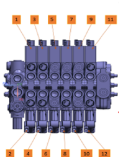
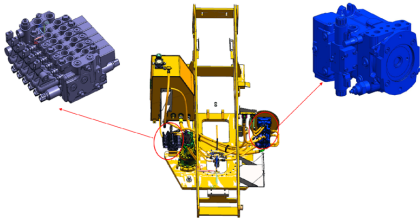
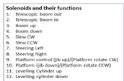
9.1.144 B1261-16

Error Code:	B1261-16
ECU	Bosch Platform ECU
Description :	PLATFORM ROTATE LEFT Switch SC to Low
Component :	Platform Rotate,
Vehicle reaction:	When PLATFORM ROTATE LEFT Switch SC to Low fault is detected Before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault. 2. log error code & set fault indicators. When PLATFORM ROTATE LEFT Switch SC to Low fault is detected

	after operation: 1. It Blocks all inputs connected to 10V present on the respective (Platform. control panel. 2. log error code & set fault indicators
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch
Service Action:	1. Check pin connection (pin 212. on connector 2. Check voltage on wire (pin 212. 3. Switch is in Neutral position
Other:	N/A



9.1.145 B1262-17

Error Code:	B1262-17																																																																																																																																																																																																								
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	 BASE PANEL  PLATFORM PANEL  JIB TOGGLE SWITCH  Jib/Platform proportional solenoid valve  Connections for switching between JCB control and JCB control  Solenoids and their functions <table><tr><td>1.</td><td>Platform Solenoid Valve</td></tr><tr><td>2.</td><td>Platform Solenoid Valve</td></tr><tr><td>3.</td><td>Platform Solenoid Valve</td></tr><tr><td>4.</td><td>Platform Solenoid Valve</td></tr><tr><td>5.</td><td>Platform Solenoid Valve</td></tr><tr><td>6.</td><td>Platform Solenoid Valve</td></tr><tr><td>7.</td><td>Platform Solenoid Valve</td></tr><tr><td>8.</td><td>Platform Solenoid Valve</td></tr><tr><td>9.</td><td>Platform Solenoid Valve</td></tr><tr><td>10.</td><td>Platform Solenoid Valve</td></tr><tr><td>11.</td><td>Platform Solenoid Valve</td></tr><tr><td>12.</td><td>Platform Solenoid Valve</td></tr><tr><td>13.</td><td>Platform Solenoid Valve</td></tr><tr><td>14.</td><td>Platform Solenoid Valve</td></tr><tr><td>15.</td><td>Platform Solenoid 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Vehicle reaction:	When JIB RAISE Switch SC to High fault is detected before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault.. 2. log error code & set fault indicators. When JIB RAISE Switch SC to High fault is detected After operation: 1. It Blocks all inputs connected to 10V present on the respective (Platform. control panel. 2. log error code & set fault indicators.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-ver switch
Service Action:	1. Check pin connection (pin 135. on connector 2. Check voltage on wire (pin 135. 3. Switch is in Neutral position
Other:	N/A

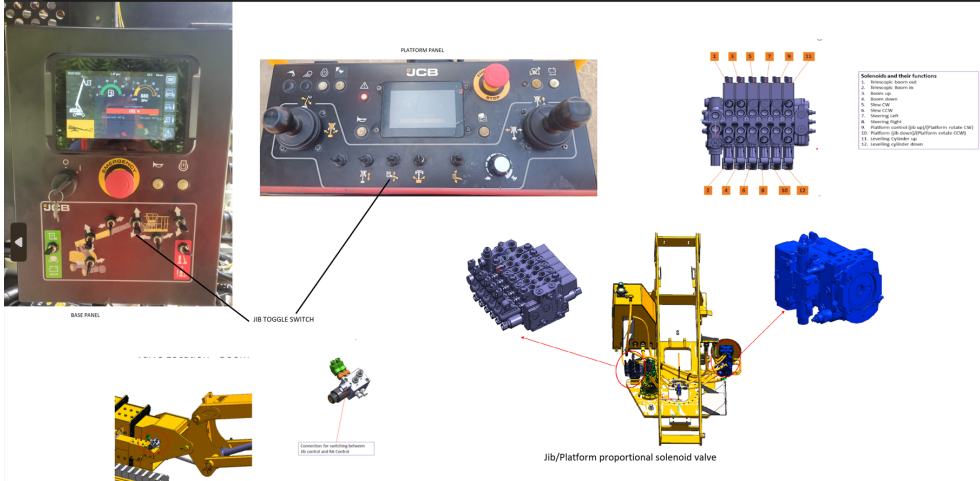


9.1.146 B1263-17

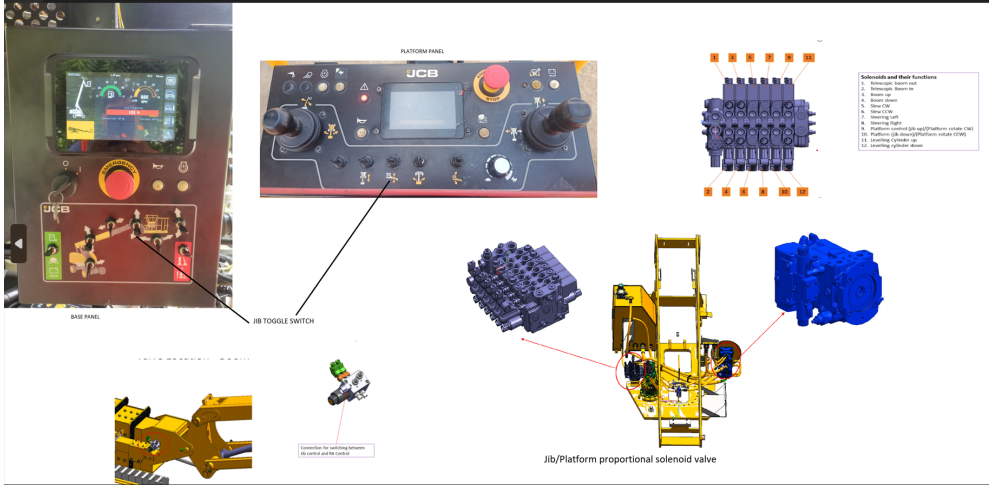
Error Code:	B1263-17
ECU	Bosch Platform ECU
Description :	JIB LOWER Switch SC to High
Component :	Jib

Vehicle reaction:	When JIB LOWER Switch SC to High fault is detected before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault.. 2. log error code & set fault indicators. When JIB LOWER Switch SC to High fault is detected After operation: 1. It Blocks all inputs connected to 10V present on the respective (Platform. control panel. 2. log error code & set fault indicators.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-ver switch
Service Action:	1. Check pin connection (pin 214. on connector 2. Check voltage on wire (pin 214. 3. Switch is in Neutral position
Other:	N/A

9.1.147 B1264-92

Error Code:	B1264-92
ECU	Bosch Platform ECU
Description :	JIB RAISE & LOWER Switches both activated (5 - 10V)
Component :	Jib 
Vehicle reaction:	When JIB RAISE & LOWER Switches both activated (5 - 10V.: 1. It ignores the input (but not o/p as it can be operated from where there is no fault.. 2. log error code & set fault indicators
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch
Service Action:	1. Check pin connection (pin 214. on connector 2. Check voltage on wire (pin 214. 3. Switch is in Neutral position
Other:	N/A

9.1.148 B1265-16

Error Code:	B1265-16
ECU	Bosch Platform ECU
Description :	JIB RAISE Switch SC to Low
Component :	Jib 
Vehicle reaction:	When JIB RAISE Switch SC to Low fault is detected before operation: 1. It ignores the input (but not o/p as it can be operated from where there is no fault.. 2. log error code & set fault indicators. When JIB RAISE Switch SC to Low fault is detected After operation: 1. It Blocks all inputs connected to 10V present on the respective (Platform. control panel. 2. log error code & set fault indicators.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch
Service Action:	1. Check pin connection (pin 135. on connector 2. Check voltage on wire (pin 135.

Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-ver switch
Service Action:	1. Check pin connection (pin 214. on connector 2. Check voltage on wire (pin 214. 3. Check pin connection (pin 135. on connector 4. Check voltage on wire (pin 135. 5. Switch is in Neutral position
Other:	N/A



9.1.150 B1267-17

Error Code:	B1267-17
ECU	Bosch Platform ECU
Description :	10V INPUT System SC to High - Platform
Component :	10V Input System
Vehicle reaction:	When 10V INPUT System SC to High is detected: 1. It Blocks all inputs connected to 10V present on the respective control panel. 2. log error code & set fault indicators
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-ver switch
Service Action:	1. Check all the pin connector connectedd at the 10 V input system. 2. check the voltage of the pins coonected at the 10 V input

	system. 3. Machine restart
Other:	N/A



9.1.151 B1268-16

Error Code:	B1268-16
ECU	Bosch Platform ECU
Description :	10V INPUT System SC to Low - Platform
Component :	10V Input System
Vehicle reaction:	When 10V INPUT System SC to Low is detected: 1. It Blocks all inputs connected to 10V present on the respective control panel. 2. log error code & set fault indicators
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-ver switch
Service Action:	1. Check all the pin connector connectedd at the 10 V input system. 2. check the voltage of the pins coonected at the 10 V input system. 3. Machine restart
Other:	N/A



9.1.152 B1269-16

Error Code:	B1269-16
ECU	Bosch Platform ECU
Description :	BUZZER SC to Low
Component :	Buzzer
Vehicle reaction:	When BUZZER SC to Low fault detected: 1. It sets the fault code & fault indicators.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch
Service Action:	1. Check pin connection (pin 190. on connector 2. Check voltage on wire (pin 190. 3. Machine restart
Other:	N/A



9.1.153 B1270-17

Error Code:	B1270-17
ECU	Bosch Platform ECU
Description :	BUZZER SC to High
Component :	Buzzer
Vehicle reaction:	When BUZZER SC to High fault detected: 1. It sets the fault code & fault indicators. 3. It Disables the output.

Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch
Service Action:	1. Check pin connection (pin 190. on connector 2. Check voltage on wire (pin 190. 3. No input request
Other:	N/A



9.1.154 B1273-17

Error Code:	B1273-17
ECU	Bosch Platform ECU
Description :	HORN BUTTON SC to High
Component :	Horn   HORN PUSH BUTTON
Vehicle reaction:	When HORN BUTTON SC to High fault detected: 1. It disables the horn input & output. 2.log error code & set fault indicator.

Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch
Service Action:	1. Check pin connection (pin 252. on connector 2. Check voltage on wire (pin 252. 3. No input request.
Other:	N/A



9.1.155 B1274-16

Error Code:	B1274-16
ECU	Bosch Platform ECU
Description :	HORN BUTTON SC to Low
Component :	  BASE PANEL PLATFORM PANEL HORN PUSH BUTTON
Vehicle reaction:	When HORN BUTTON SC to High fault detected: 1.log error code & set fault indicator.

Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch
Service Action:	1. Check pin connection (pin 252. on connector 2. Check voltage on wire (pin 252. 3. No input request.
Other:	N/A



9.1.156 B1275-24

Error Code:	B1275-24
ECU	Bosch Platform ECU
Description :	HORN BUTTON Stuck for ≥ 10 seconds
Component :	  BASE PANEL PLATFORM PANEL HORN PUSH BUTTON
Vehicle reaction:	When HORN BUTTON Stuck for ≥ 10 seconds: 1. It disables the horn input & output. 2.log error code & set fault indicator.

Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch
Service Action:	1. Check pin connection (pin 252. on connector 2. Check voltage on wire (pin 252. 3. No input request.
Other:	N/A



9.1.157 B1276-24

Error Code:	B1276-24
ECU	Bosch Base ECU
Description :	Base Startlock Stuck (Generic o/p fault)
Component :	Base Startlock Stuck 
Vehicle reaction:	When Base Startlock Stuck (Generic o/p fault. is detected: 1. log error code & set fault indicator.
Possible Cause:	1. The short between any two conductors 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding .

	3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connections (pins 201, 203, 204, 205, 206. on connector 2. Check voltage on wire mention above 3. Check ground (pin 202. 4. If not above fault then Replace ECU
Other:	N/A



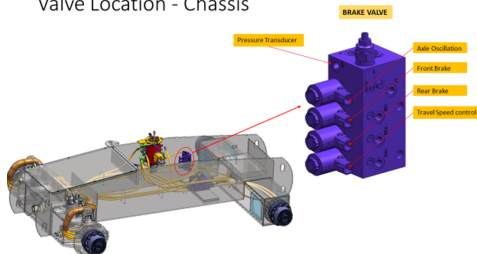
9.1.158 B1277-24

Error Code:	B1277-24
ECU	Bosch Platform ECU
Description :	Platform Startlock Stuck (Generic o/p fault)
Component :	Platform Startlock Stuck 
Vehicle reaction:	When Platform Startlock Stuck (Generic o/p fault. is detected: 1. log error code & set fault indicator.
Possible Cause:	1. The short between any two conductors 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. The short circuit between the three connections of a change-over switch.

Service Action:	1. Check pin connections (pins 201, 203, 204, 205, 206. on connector) 2. Check voltage on wire mention above. 3. Check ground (pin 202. 4. If not above fault then Replace ECU
Other:	N/A



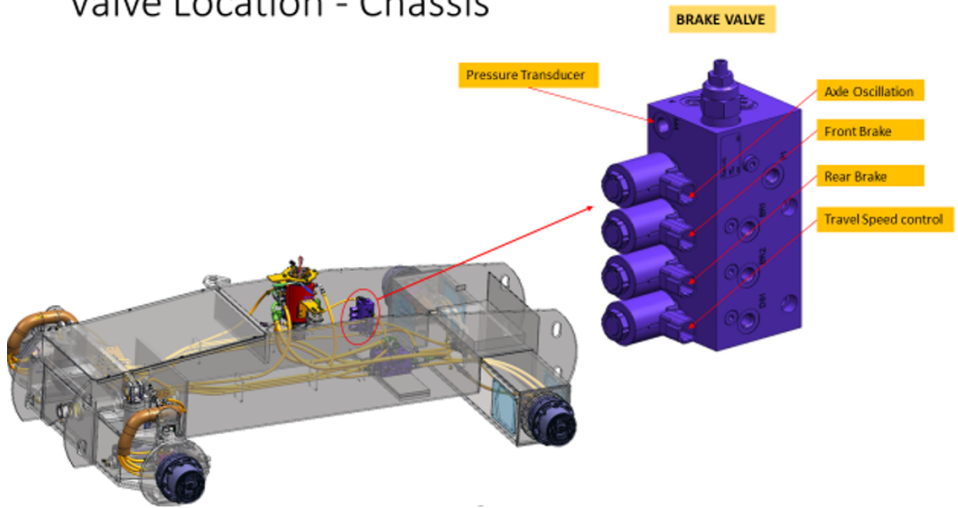
9.1.159 B1278-17

Error Code:	B1278-17
ECU	Bosch Base ECU
Description :	REAR BRAKE Solenoid Valve SC to High or OC
Component :	Rear Brake 
Vehicle reaction:	When REAR BRAKE Solenoid Valve SC to High or OC fault detected: 1. It does not disable any outputs 2. log error code & set fault indicator. 1. It does not Ignore any input.
Possible Cause:	For Sc to High: 1. The short circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. Does not de-energise. For OC:

	1. The open circuit of any conductor. 2. Does not energise.
Service Action:	1. Check pin connection (pin 128. on connector 2. Check voltage on wire (pin 128. 3. No input request
Other:	N/A

JCB

9.1.160 B1279-16

Error Code:	B1279-16
ECU	Bosch Base ECU
Description :	REAR BRAKE Solenoid Valve Raise SC to Low
Component :	Rear Brake Valve Location - Chassis  The diagram illustrates the location of the rear brake solenoid valve on the chassis. A red circle highlights the valve on the chassis, with a red arrow pointing to a detailed view of the brake valve assembly. The detailed view shows the valve with various ports and a pressure transducer. Labels include: BRAKE VALVE, Pressure Transducer, Axle Oscillation, Front Brake, Rear Brake, and Travel Speed control.
Vehicle reaction:	When REAR BRAKE Solenoid Valve SC to Low fault detected: 1. It does not disable any outputs 2. log error code & set fault indicator. 1. It does not Ignore any input.

Possible Cause:	1. The short circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 128. on connector 2. Check voltage on wire (pin 128. 3. Machine restart
Other:	N/A



9.1.161 B1281-16

Error Code:	B1281-16
ECU	Bosch Base ECU
Description :	VSS2 Low Voltage (<= 9.5V)
Component :	Vss2
Vehicle reaction:	When VSS2 Low Voltage (<=9.5V.Fault detected: 1. It disables all outputs. 2. It ignores inputs.
Possible Cause:	1. The short circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 232. on connector 2. Check voltage on wire (pin 232. 3. Machine restart
Other:	N/A



9.1.162 B1283-16

Error Code:	B1283-16
ECU	Bosch Platform ECU
Description :	VSS1 Low Voltage ($\leq 4.5V$)
Component :	Vss1
Vehicle reaction:	When VSS1 Low Voltage ($\leq 4.5V$. Fault detected: 1. It disables all outputs. 2. It ignores inputs of Platform Panel
Possible Cause:	1. The short circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 219. on connector 2. Check voltage on wire (pin 219. 3. Machine restart
Other:	N/A



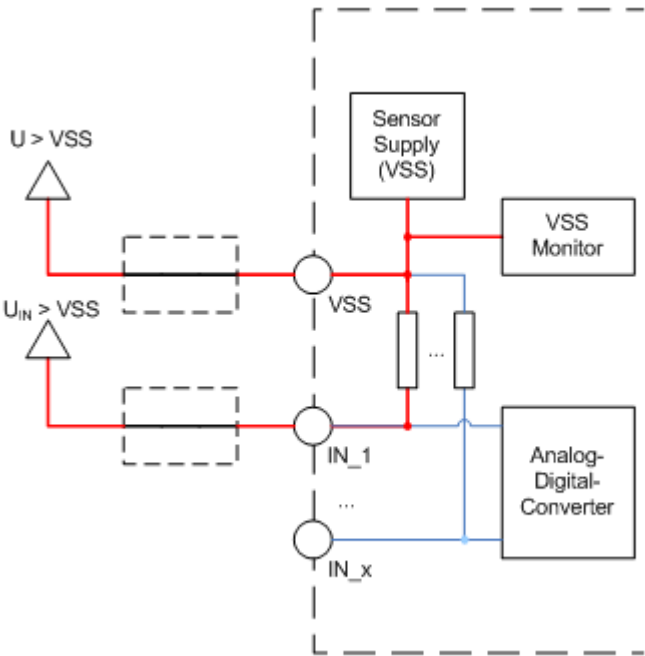
9.1.163 B1284-16

Error Code:	B1284-16
ECU	Bosch Platform ECU
Description :	VSS2 Low Voltage ($\leq 9.5V$)
Component :	Vss2
Vehicle reaction:	When VSS2 Low Voltage($\leq 9.5V$).Fault detected: 1. It disables all outputs. 2. It ignores inputs of Platform Panel.
Possible Cause:	1. The short circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 232. on connector 2. Check voltage on wire (pin 232.

	3. Machine restart
Other:	N/A

JCB

9.1.164 B1285-16

Error Code:	B1285-16
ECU	Bosch Platform ECU
Description :	VSS3 Low Voltage ($\leq 4.5V$)
Component :	Vss3 
Vehicle reaction:	When VSS3 Low Voltage ($\leq 4.5V$). Fault detected: 1. It disables all outputs. 2. It ignores inputs of Platform Panel.
Possible Cause:	1. The short circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive

	part or to earth or to the protective bonding . 3. Does not de-energise.
Service Action:	1. Check pin connection (VSS3. on connector 2. Check voltage across the VSS3 wire 3. Machine restart
Other:	N/A



9.1.165 B1287-2F

Error Code:	B1287-2F
ECU	Bosch Base ECU
Description :	FUEL SENDER Data Erratic
Component :	Fuel Sensor

	 <table border="1"><thead><tr><th>Input name</th><th>ECU Pin Input</th></tr></thead><tbody><tr><td>Axle Lock Pressure Sensor</td><td>Analog</td></tr><tr><td>Steer Joystick</td><td>Analog</td></tr><tr><td>Main Boom Raise & Lower Joystick</td><td>Analog</td></tr><tr><td>Load Sensor 1 (Weight)</td><td>Analog</td></tr><tr><td>Load Sensor 2 (Weight)</td><td>Analog</td></tr><tr><td>Drive Joystick</td><td>Analog</td></tr><tr><td>Slew Joystick</td><td>Analog</td></tr><tr><td>Crush Protection Switch 1</td><td>Digital</td></tr></tbody></table>	Input name	ECU Pin Input	Axle Lock Pressure Sensor	Analog	Steer Joystick	Analog	Main Boom Raise & Lower Joystick	Analog	Load Sensor 1 (Weight)	Analog	Load Sensor 2 (Weight)	Analog	Drive Joystick	Analog	Slew Joystick	Analog	Crush Protection Switch 1	Digital
Input name	ECU Pin Input																		
Axle Lock Pressure Sensor	Analog																		
Steer Joystick	Analog																		
Main Boom Raise & Lower Joystick	Analog																		
Load Sensor 1 (Weight)	Analog																		
Load Sensor 2 (Weight)	Analog																		
Drive Joystick	Analog																		
Slew Joystick	Analog																		
Crush Protection Switch 1	Digital																		
Vehicle reaction:	When FUEL SENDER Data Erratic fault is detected: 1.log fault code & set fault indicators. 2. It Doesn't send any value to Display.																		
Possible Cause:	1. Open circuit of any conductor. 2. Interruption in power supply. 3. No operation of switch due to mechanical failure.																		
Service Action:	1. Check pin connection (pin 121. on connector 2. Check voltage on wire (pin 121. 3.No input request																		

Other:	N/A
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9.1.166 U1293-87

Error Code:	U1293-87
ECU	Bosch Base ECU
Description :	CAN TIME OUT ERROR
Component :	CAN Legend: - A - -VE - B - +VE 10A fused - C - J1939 CAN H - D - J1939 CAN L - E - J1939 Shield - F - - G - - H - - J -
Vehicle reaction:	When CAN TIME OUT ERROR is detected: 1. Recipient reports the fault code. 2. Recipient resets RC (rolling counter. to 0 3. Recipient disables all outputs 4. Transmitter re-transmits CAN message requested by Recipient with RC set to 0.

Possible Cause:	CAN disconnets.
Service Action:	check for the 3 valid messages from transmitter and no active functions requested from either base or platform control panel
Other:	N/A



9.1.167 U1294-56

Error Code:	U1294-56
ECU	Bosch Base ECU
Description :	CAN RC ERROR
Component :	CAN
	Legend: A - -VE B - +VE 10A fused C - J1939 CAN H D - J1939 CAN L E - J1939 Shield F - ----- G - ----- H - ----- J - -----
Vehicle reaction:	When CAN RC ERROR is detected: 1. Recipient ignores received CAN message and reports the fault code.

	2. Recipient retains existing values. 4. Recipient resets RC (rolling counter. to 0 5. Transmitter re-transmits CAN message requested by Recipient with RC set to 0.
Possible Cause:	Corruption/Loss of CAN Messages.
Service Action:	Check for the Valid message from transmitter
Other:	N/A



9.1.168 U1295-41

Error Code:	U1295-41
ECU	Bosch Base ECU
Description :	CAN CHECKSUM ERROR
Component :	CAN Legend: - A --VE - B --VE 10A fused - C -- J1939 CAN H - D -- J1939 CAN L - E -- J1939 Shield - F - - - - - - G - - - - - - H - - - - - - J - - - - - Components and Connections: JCB 444 T4F ENGINE ECU: - M4 - Battery feed (Fused 3A) - M3/L3 - Battery negative - M2 - Ignition Input - L2 - Chassis Ground - D4 - Can H J1939 - E4 - Can L J1939 - C3 - Can Shield J1939 - J1 - Anti-Tamper Link - K1 - Anti-Tamper Link - E2 - All Ch Bosch Base ECU: - D1 - J1939 CAN H - D2 - J1939 CAN L - D11 - 15765 CAN L - D12 - 15765 CAN H Bosch Platform ECU: - Platform Display 5" - Display 7" Sensors: - Wire reel + Angle Sensor - Tilt sensor Chassis Angle Connectors: - BASE - PRIMARY DIAGNOSTIC CONNECTOR - Fit blanking cap

Vehicle reaction:	When CAN CHECKSUM ERROR is detected: 1. Recipient ignores received CAN message and reports the fault code. 2. Recipient retains existing values. 3. Recipient resets RC (rolling counter. to 0 4. Transmitter re-transmits CAN message requested by Recipient with RC set to 0.
Possible Cause:	Corruption/Loss of CAN Messages.
Service Action:	Check for the Valid message from transmitter
Other:	N/A

JCB

9.1.169 U1296-87

Error Code:	U1296-87
ECU	Bosch Platform ECU
Description :	CAN TIME OUT ERROR
Component :	CAN

	TERMINATING RESISTOR Platform Display 5" Display 7" BOSCH PLATFORM ECU QxIE4 Wire reel + Angle Sensor Tilt sensor Chassis Angle BOSCH BASE ECU QxIB3 JCB 444 T4F ENGINE ECU TERMINATING RESISTOR J1939 CAN J1939 CAN 15765 CAN J1939 CAN15765 BASE - PRIMARY DIAGNOSTIC CONNECTOR Fit blanking cap M4 - Battery feed (Fused 3A) M3/L3 - Battery negative M2 - Ignition Input L2 - Chassis Ground D4 - Can H J1939 E4 - Can L J1939 C3 - Can Shield J1939 J1 - Anti-Tamper Link K1 - Anti-Tamper Link E2 - Alt D+ D1 - J1939 CAN H D2 - J1939 CAN L D11 - 15765 CAN L D12 - 15765 CAN H A - -VE B - +VE 10A Fused C - J1939 CAN H D - J1939 CAN L E - J1939 Shield F - G - H - J - A - -VE B - +VE 10A Fused C - J1939 CAN H D - J1939 CAN L E - J1939 Shield F - G - H - Kohler 15765 J - Kohler 15765
Vehicle reaction:	When CAN TIME OUT ERROR is detected: 1. Recipient reports the fault code. 2. Recipient resets RC (rolling counter. to 0 3. Recipient disables all outputs 4. Transmitter re-transmits CAN message requested by Recipient with RC set to 0.
Possible Cause:	CAN disconnets.
Service Action:	check for the 3 valid messages from transmitter and no active functions requested from either base or platform control panel
Other:	N/A



9.1.170 U1297-56

Error Code:	U1297-56
ECU	Bosch Platform ECU

Description :	CAN RC ERROR
Component :	CAN
Vehicle reaction:	When CAN RC ERROR is detected: 1. Recipient ignores received CAN message and reports the fault code. 2. Recipient retains existing values. 3. Recipient resets RC (rolling counter. to 0 4. Transmitter re-transmits CAN message requested by Recipient with RC set to 0.
Possible Cause:	Corruption/Loss of CAN Messages.
Service Action:	Check for the Valid message from transmitter
Other:	N/A

9.1.171 U1298-41

Error Code:	U1298-41
ECU	Bosch Platform ECU
Description :	CAN CHECKSUM ERROR
Component :	CAN Diagram illustrating the CAN network configuration for the Bosch Platform ECU (Q4E4) and Bosch Base ECU (Q4G3). The network includes the JCB 444 T4F ENGINE ECU, Platform Display 5", and Display 7". The diagram shows the connection of the Bosch Platform ECU (Q4E4) to the Bosch Base ECU (Q4G3) via CAN J1939 and CAN 15765. The Bosch Base ECU (Q4G3) is connected to the Platform Display 5" and Display 7" via CAN J1939. The Bosch Platform ECU (Q4E4) is connected to the Platform Display 5" and Display 7" via CAN J1939. The Bosch Base ECU (Q4G3) is connected to the Platform Display 5" and Display 7" via CAN J1939. The Bosch Base ECU (Q4G3) is connected to the Platform Display 5" and Display 7" via CAN J1939. Pin lists for connectors: - Platform Display 5": M4 - Battery feed (Fused 3A), M3/L3 - Battery negative, M2 - Ignition Input, L2 - Chassis Ground, D4 - Can H J1939, E4 - Can L J1939, C3 - Can Shield J1939, J1 - Anti-Tamper Link, K1 - Anti-Tamper Link, E2 - Alt D+ - Platform Display 7": D1 - J1939 CAN H, D2 - J1939 CAN L, D11 - 15765 CAN L, D12 - 15765 CAN H - Wire reel + Angle Sensor: A - -VE, B - +VE 10A fused, C - J1939 CAN H, D - J1939 CAN L, E - J1939 Shield, F - , G - , H - , J - - Tilt sensor Chassis Angle: A - -VE, B - +VE 10A fused, C - J1939 CAN H, D - J1939 CAN L, E - J1939 Shield, F - , G - , H - Kohler 15765, J - Kohler 15765
Vehicle reaction:	When CAN CHECKSUM ERROR is detected: 1. Recipient ignores received CAN message and reports the fault code. 2. Recipient retains existing values. 3. Recipient resets RC (rolling counter. to 0 4. Transmitter re-transmits CAN message requested by Recipient with RC set to 0.
Possible Cause:	Messages from trasmitter end not matches with the reciever end.
Service Action:	Check for the Valid message from transmitter
Other:	N/A



9.1.172 U1299-87

Error Code:	U1299-87
ECU	Bosch Base ECU
Description :	CAN PAIRING FAILED ERROR
Component :	CAN M4 – Battery feed (Fused 3A) M3/LS – Battery negative M2 – Ignition Input L2 – Chassis Ground D4 – Can H J1939 E4 – Can L J1939 C3 – Can Shield J1939 J1 – Anti-Tamper Link K1 – Anti-Tamper Link E2 – Alt Dr A – -VE B – +VE 10A fused C – J1939 CAN H D – J1939 CAN L E – J1939 Shield F – G – H – J – A – -VE B – +VE 10A fused C – J1939 CAN H D – J1939 CAN L E – J1939 Shield F – G – H – Kohler 15765 J – Kohler 15765
Vehicle reaction:	When CAN PAIRING FAILED ERROR is detected: 1. Recipient reports the fault code. 2. Recipient resets RC (rolling counter. to 0 3. Recipient disables all outputs 4. Transmitter re-transmits CAN message requested by Recipient with RC set to 0.
Possible Cause:	CAN disconnets.
Service Action:	Check for 3 valid messages from transmitter and no active functions requested from either base or platform control panel

Other:	N/A
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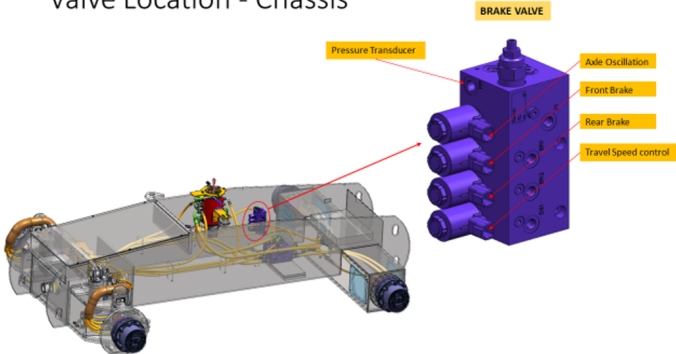
9.1.173 B1300-2F

Error Code:	B1300-2F
ECU	Bosch Base ECU
Description :	ALTERNATOR FAULT
Component :	Alternator

	 ALTERNATOR
Vehicle reaction:	0
Possible Cause:	0
Service Action:	0
Other:	N/A



9.1.174 B1301-2F

Error Code:	B1301-2F
ECU	Bosch Base ECU
Description :	OSCILLATING AXLE PRESSURE SENSOR FAILURE
Component :	Oscillating Axle  oscillating axle pressure sensor Valve Location - Chassis 
Vehicle reaction:	When OSCILLATING AXLE PRESSURE SENSOR FAILURE is detected: 1. It Detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. Switch Axle Lock o/p to off. 3. log error code & set fault indicator. 4. Base disables Main Boom and Artic Boom Lift , Main Boom Extend, Slew and Drive functions (in slew position and Raised mode..
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive

	part or to earth or to the protective bonding. 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 131. on connector 2. Check voltage on wire (pin 131. 3. Check pin connection (pin 182. on connector 4. Check voltage on wire (pin 182. 5. Fault cleared in forward and stowed position; Machine restart
Other:	N/A



9.1.175 B1302-2F

Error Code:	B1302-2F
ECU	Bosch Base ECU
Description :	RC CONFIG SC Plausibility Check
Component :	Rc Confi
Vehicle reaction:	When RC CONFIG SC Plausibility Check Fault is detected After ignition: 1. It disables all functionalities of respective (Base. controller. 2. log error code & set fault indicators. When RC CONFIG SC Plausibility Check Fault is detected Before ignition: 1. It checks the startlock logic. 2. The control will be stuck in startlock mode. 3. 2. log error code & set fault indicators.
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.

Service Action:	1. Check pin connection (pin 196. on connector 2. Check voltage on wire (pin 196. 3. Check pin connection (pin 249. on connector 4. Check voltage on wire (pin 249. 5. Machine restart
Other:	N/A



9.1.176 B1303-2F

Error Code:	B1303-2F
ECU	Bosch Platform ECU
Description :	RC CONFIG SC Plausibility Check
Component :	Rc Config
Vehicle reaction:	When RC CONFIG SC Plausibility Check Fault is detected After ignition: 1. It disables all functionalities of respective (Platform. controller. 2. log error code & set fault indicators. When RC CONFIG SC Plausibility Check Fault is detected Before ignition: 1. It checks the startlock logic. 2. The control will be stuck in startlock mode. 3. log error code & set fault indicators.
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 196. on connector 2. Check voltage on wire (pin 196.

	3. Check pin connection (pin 249. on connector 4. Check voltage on wire (pin 249. 5. Machine restart
Other:	N/A



9.1.177 B1304-24

Error Code:	B1304-24
ECU	Bosch Base ECU
Description :	Base Startlock Stuck (Generic o/p fault)
Component :	Base Startlock Stuck
Vehicle reaction:	When Base Startlock Stuck (Generic o/p fault. is detected: 1. log error code & set fault indicator.
Possible Cause:	1. The short between any two conductors 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection on connector (pin 219. 2. Check voltage on wire (pin 219. 3. If not above fault then Replace ECU
Other:	N/A



9.1.178 B1305-24

Error Code:	B1305-24
ECU	Bosch Base ECU

Description :	Base Startlock Stuck (Generic o/p fault)
Component :	Base Startlock Stuck
Vehicle reaction:	When Base Startlock Stuck (Generic o/p fault. is detected: 1. log error code & set fault indicator.
Possible Cause:	1. The short between any two conductors 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection on connector (pin 232. 2. Check voltage on wire (pin 232. 3. If not above fault then Replace ECU
Other:	N/A



9.1.179 B1306-24

Error Code:	B1306-24
ECU	Bosch Base ECU
Description :	Base Startlock Stuck (Generic o/p fault)
Component :	Base Startlock Stuck
Vehicle reaction:	When Base Startlock Stuck (Generic o/p fault. is detected: 1. log error code & set fault indicator.
Possible Cause:	1. The short between any two conductors 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. The short circuit between the three connections of a change-over switch.

Service Action:	1. Check pin connection on connector (pin 255. 2. Check voltage on wire (pin 255. 3. If not above fault then Replace ECU
Other:	N/A



9.1.180 B1307-24

Error Code:	B1307-24
ECU	Bosch Base ECU
Description :	Base Startlock Stuck (Generic o/p fault)
Component :	Base Startlock Stuck
Vehicle reaction:	When Base Startlock Stuck (Generic o/p fault. is detected: 1. log error code & set fault indicator.
Possible Cause:	1. The short between any two conductors 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. The short circuit between the three connections of a change-over switch.
Service Action:	Replace ECU
Other:	N/A



9.1.181 B1308-24

Error Code:	B1308-24
ECU	Bosch Base ECU

Description :	Base Startlock Stuck (Generic o/p fault)
Component :	Base Startlock Stuck
Vehicle reaction:	When Base Startlock Stuck (Generic o/p fault. is detected: 1. log error code & set fault indicator.
Possible Cause:	1. The short between any two conductors 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection on connector (pin 128, 103, 105, 104, 127, 102, 153, 177, 154, 178, 151, 175, 152, 176, 149, 173, 150, 174, 130, 131, 126, 101, 125, 129. 2. Check voltage on wire mention above. 3. If not above fault then Replace ECU
Other:	N/A



9.1.182 B1309-24

Error Code:	B1309-24
ECU	Bosch Base ECU
Description :	Base Startlock Stuck (Generic o/p fault)
Component :	Base Startlock Stuck
Vehicle reaction:	When Base Startlock Stuck (Generic o/p fault. is detected: 1. log error code & set fault indicator.
Possible Cause:	1. The short between any two conductors 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding .

	3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection on connector (pin 107, 106, 190, 189, 194, 193, 243, 241, 242, 256, 244, 257. 2. Check voltage on wire mention above. 3. If not above fault then Replace ECU
Other:	N/A

JCB

9.1.183 B1310-24

Error Code:	B1310-24
ECU	Bosch Base ECU
Description :	Base Startlock Stuck (Generic o/p fault)
Component :	Base Startlock Stuck
Vehicle reaction:	When Base Startlock Stuck (Generic o/p fault. is detected: 1. log error code & set fault indicator.
Possible Cause:	1. The short between any two conductors 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection on connector (pin 147, 136. 251. 2. Check voltage on wire mention above.
Other:	N/A

JCB

9.1.184 B1311-24

Error Code:	B1311-24
ECU	Bosch Base ECU
Description :	Base Startlock Stuck (Generic o/p fault)
Component :	Base Startlock Stuck
Vehicle reaction:	When Base Startlock Stuck (Generic o/p fault. is detected: 1. log error code & set fault indicator.
Possible Cause:	1. The short between any two conductors 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. The short circuit between the three connections of a change-over switch.
Service Action:	Replace ECU
Other:	N/A



9.1.185 B1312-24

Error Code:	B1312-24
ECU	Bosch Base ECU
Description :	Base Startlock Stuck (Generic o/p fault)
Component :	Base Startlock Stuck
Vehicle reaction:	When Base Startlock Stuck (Generic o/p fault. is detected: 1. log error code & set fault indicator.
Possible Cause:	1. The short between any two conductors 2. The short circuit of any conductor to an exposed conductive

	part or to earth or to the protective bonding . 3. The short circuit between the three connections of a change-over switch.
Service Action:	Check any input (Shot to 10V . is enabled.
Other:	N/A

JCB

9.1.186 B1313-24

Error Code:	B1313-24
ECU	Bosch Platform ECU
Description :	Platform Startlock Stuck (Generic o/p fault)
Component :	Platform Startlock Stuck
Vehicle reaction:	When Platform Startlock Stuck (Generic o/p fault. is detected: 1. log error code & set fault indicator.
Possible Cause:	1. The short between any two conductors 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection on connector (pin 219. 2. Check voltage on wire (pin 219. 3. If not above fault then Replace ECU
Other:	N/A

JCB

9.1.187 B1314-24

Error Code:	B1314-24
ECU	Bosch Platform ECU
Description :	Platform Startlock Stuck (Generic o/p fault)
Component :	Platform Startlock Stuck
Vehicle reaction:	When Platform Startlock Stuck (Generic o/p fault. is detected: 1. log error code & set fault indicator.
Possible Cause:	1. The short between any two conductors 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection on connector (pin 232. 2. Check voltage on wire (pin 232. 3. If not above fault then Replace ECU
Other:	N/A



9.1.188 B1315-24

Error Code:	B1315-24
ECU	Bosch Platform ECU
Description :	Platform Startlock Stuck (Generic o/p fault)
Component :	Platform Startlock Stuck
Vehicle reaction:	When Platform Startlock Stuck (Generic o/p fault. is detected: 1. log error code & set fault indicator.

Possible Cause:	1. The short between any two conductors 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection on connector (pin 255. 2. Check voltage on wire (pin 255. 3. If not above fault then Replace ECU
Other:	N/A



9.1.189 B1316-24

Error Code:	B1316-24
ECU	Bosch Base ECU
Description :	Platform Startlock Stuck (Generic o/p fault)
Component :	Platform Startlock Stuck
Vehicle reaction:	When Platform Startlock Stuck (Generic o/p fault. is detected: 1. log error code & set fault indicator.
Possible Cause:	1. The short between any two conductors 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. The short circuit between the three connections of a change-over switch.
Service Action:	Replace ECU
Other:	N/A



9.1.190 B1317-24

Error Code:	B1317-24
ECU	Bosch Platform ECU
Description :	Platform Startlock Stuck (Generic o/p fault)
Component :	Platform Startlock Stuck
Vehicle reaction:	When Platform Startlock Stuck (Generic o/p fault. is detected: 1. log error code & set fault indicator.
Possible Cause:	1. The short between any two conductors 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection on connector (pin 128, 103, 105, 104, 127, 102, 153, 177, 154, 178, 151, 175, 152, 176, 149, 173, 150, 174, 130, 131, 126, 101, 125, 129. 2. Check voltage on wire mention above. 3. If not above fault then Replace ECU
Other:	N/A



9.1.191 B1318-24

Error Code:	B1318-24
ECU	Bosch Platform ECU
Description :	Platform Startlock Stuck (Generic o/p fault)
Component :	Platform Startlock Stuck

Vehicle reaction:	When Platform Startlock Stuck (Generic o/p fault. is detected: 1. log error code & set fault indicator.
Possible Cause:	1. The short between any two conductors 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection on connector (pin 107, 106, 190, 189, 194, 193, 243, 241, 242, 256, 244, 257. 2. Check voltage on wire mention above. 3. If not above fault then Replace ECU
Other:	N/A



9.1.192 B1319-24

Error Code:	B1319-24
ECU	Bosch Platform ECU
Description :	Platform Startlock Stuck (Generic o/p fault)
Component :	Platform Startlock Stuck
Vehicle reaction:	When Platform Startlock Stuck (Generic o/p fault. is detected: 1. log error code & set fault indicator.
Possible Cause:	1. The short between any two conductors 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection on connector (pin 147, 136. 251. 2. Check voltage on wire mention above.
Other:	N/A

JCB

9.1.193 B1320-24

Error Code:	B1320-24
ECU	Bosch Platform ECU
Description :	Platform Startlock Stuck (Generic o/p fault)
Component :	Platform Startlock Stuck
Vehicle reaction:	When Platform Startlock Stuck (Generic o/p fault. is detected: 1. log error code & set fault indicator.
Possible Cause:	1. The short between any two conductors 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. The short circuit between the three connections of a change-over switch.
Service Action:	Replace ECU
Other:	N/A

JCB

9.1.194 B1321-24

Error Code:	B1321-24
ECU	Bosch Platform ECU
Description :	Platform Startlock Stuck (Generic o/p fault)
Component :	Platform Startlock Stuck

Vehicle reaction:	When Platform Startlock Stuck (Generic o/p fault. is detected: 1. log error code & set fault indicator.
Possible Cause:	1. The short between any two conductors 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. The short circuit between the three connections of a change-over switch.
Service Action:	Check any input (Shot to 10V . is enabled.
Other:	N/A



9.1.195 U1323-56

Error Code:	U1323-56
ECU	Bosch Base ECU
Description :	CAN RC ERROR
Component :	CAN

	TERMINATING RESISTOR Platform Display 5" Display 7" BOSCH PLATFORM ECU Qx14 BOSCH BASE ECU Qx03 JCB 444 T4F ENGINE ECU TERMINATING RESISTOR LIVE LINK Wire reel + Angle Sensor Tilt sensor Chassis Angle BASE - PRIMARY DIAGNOSTIC CONNECTOR Fit blanking cap M4 - Battery feed (Fused 3A) M3/L3 - Battery negative M2 - Ignition Input L2 - Chassis Ground D4 - Can H J1939 E4 - Can L J1939 C3 - Can Shield J1939 J1 - Anti-Tamper Link K1 - Anti-Tamper Link E2 - Alt Dr D1 - J1939 CAN H D2 - J1939 CAN L D11 - 15765 CAN L D12 - 15765 CAN H A - -VE B - +VE 10A Fused C - J1939 CAN H D - J1939 CAN L E - J1939 Shield F - G - H - J - A - -VE B - +VE 10A Fused C - J1939 CAN H D - J1939 CAN L E - J1939 Shield F - G - H - Kohler 15765 J - Kohler 15765
Vehicle reaction:	When CAN RC ERROR is detected: 1. Recipient ignores received CAN message and reports the fault code. 2. Recipient retains existing values. 3. Recipient resets RC (rolling counter. to 0 4. Transmitter re-transmits CAN message requested by Recipient with RC set to 0.
Possible Cause:	Corruption/Loss of CAN Messages.
Service Action:	Check for the Valid message from transmitter
Other:	N/A



9.1.196 U1324-56

Error Code:	U1324-56
ECU	Bosch Base ECU

Description :	CAN RC ERROR
Component :	CAN
Vehicle reaction:	When CAN RC ERROR is detected: 1. Recipient ignores received CAN message and reports the fault code. 2. Recipient retains existing values. 3. Recipient resets RC (rolling counter. to 0 4. Transmitter re-transmits CAN message requested by Recipient with RC set to 0.
Possible Cause:	Corruption/Loss of CAN Messages.
Service Action:	Check for the Valid message from transmitter
Other:	N/A

9.1.197 U1325-56

Error Code:	U1325-56
ECU	Bosch Base ECU
Description :	CAN RC ERROR
Component :	CAN
	Diagram illustrating the CAN network configuration for the Bosch Base ECU (Q4G3) and the Bosch Platform ECU (Q4E4). The network includes the JCB 444 T4F Engine ECU, a Platform Display 5", a Display 7", and various sensors (Wire reel + Angle Sensor, Tilt sensor Chassis Angle). The network is terminated with resistors. The diagram also shows the connection to the Bosch Base ECU (Q4G3) via CAN J1939 and CAN 15765. The diagram includes pin lists for the connectors: Platform Display 5" Connector: - A - -VE - B - +VE 10A fused - C - J1939 CAN H - D - J1939 CAN L - E - J1939 Shield - F - - - G - - - H - - - J - - Wire reel + Angle Sensor Connector: - A - -VE - B - +VE 10A fused - C - J1939 CAN H - D - J1939 CAN L - E - J1939 Shield - F - - - G - - - H - Kohler 15765 - J - Kohler 15765 Engine ECU Connector: - D1 - J1939 CAN H - D2 - J1939 CAN L - D11 - 15765 CAN L - D12 - 15765 CAN H Base ECU Connector: - A - -VE - B - +VE 10A fused - C - J1939 CAN H - D - J1939 CAN L - E - J1939 Shield - F - - - G - - - H - Kohler 15765 - J - Kohler 15765
Vehicle reaction:	When CAN RC ERROR is detected: 1. Recipient ignores received CAN message and reports the fault code. 2. Recipient retains existing values. 3. Recipient resets RC (rolling counter. to 0 4. Transmitter re-transmits CAN message requested by Recipient with RC set to 0.
Possible Cause:	Corruption/Loss of CAN Messages.
Service Action:	Check for the Valid message from transmitter
Other:	N/A



9.1.198 U1326-41

Error Code:	U1326-41
ECU	Bosch Base ECU
Description :	CAN CHECKSUM ERROR
Component :	CAN Pin Definitions: J1939: - M4 - Battery feed (Fused 3A) - M3/L3 - Battery negative - M2 - Ignition Input - I2 - Chassis Ground - D4 - Can H J1939 - E4 - Can L J1939 - C3 - Can Shield J1939 - J1 - Anti-Tamper Link - K1 - Anti-Tamper Link - E2 - Alt D+ CAN15765: - D1 - J1939 CAN H - D2 - J1939 CAN L - D11 - 15765 CAN L - D12 - 15765 CAN H Platform Display 5" / Display 7" / Bosch Platform ECU Q1E4: - A - -VE - B - +VE 10A fused - C - J1939 CAN H - D - J1939 CAN L - E - J1939 Shield - F - - - G - - - H - - J - Chassis Angle / Bosch Base ECU Q103: - A - -VE - B - +VE 10A fused - C - J1939 CAN H - D - J1939 CAN L - E - J1939 Shield - F - - - G - - - H - Kohler 15765 - J - Kohler 15765
Vehicle reaction:	When CAN CHECKSUM ERROR is detected: 1. Recipient ignores received CAN message and reports the fault code. 2. Recipient retains existing values. 3. Recipient resets RC (rolling counter. to 0 4. Transmitter re-transmits CAN message requested by Recipient with RC set to 0.
Possible Cause:	Corruption/Loss of CAN Messages.
Service Action:	Check for the Valid message from transmitter

Other:	N/A
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9.1.199 U1327-41

Error Code:	U1327-41
ECU	Bosch Base ECU
Description:	CAN CHECKSUM ERROR
Component:	CAN
	Legend: A --VE B --+VE 10A Fused C -- J1939 CAN H D -- J1939 CAN L E -- J1939 Shield F -- G -- H -- J -- Legend: A --VE B --+VE 10A Fused C -- J1939 CAN H D -- J1939 CAN L E -- J1939 Shield F -- G -- H -- Kohler 15765 J -- Kohler 15765 Legend: A --VE B --+VE 10A Fused C -- J1939 CAN H D -- J1939 CAN L E -- J1939 Shield F -- G -- H -- Kohler 15765 J -- Kohler 15765 Legend: A --VE B --+VE 10A Fused C -- J1939 CAN H D -- J1939 CAN L E -- J1939 Shield F -- G -- H -- Kohler 15765 J -- Kohler 15765
Vehicle reaction:	When CAN CHECKSUM ERROR is detected: 1. Recipient ignores received CAN message and reports the fault code. 2. Recipient retains existing values. 3. Recipient resets RC (rolling counter. to 0 4. Transmitter re-transmits CAN message requested by Recipient with RC set to 0.

Possible Cause:	Corruption/Loss of CAN Messages.
Service Action:	Check for the Valid message from transmitter
Other:	N/A



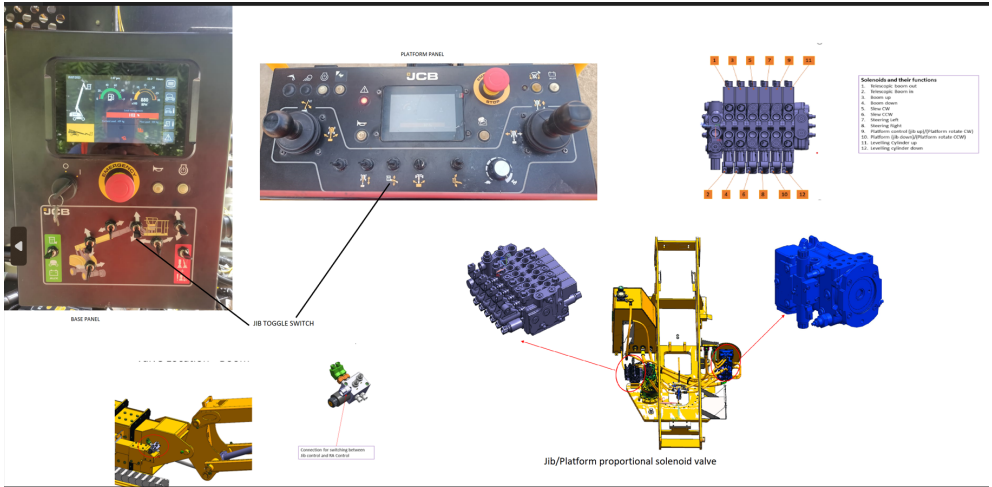
9.1.200 U1328-41

Error Code:	U1328-41
ECU	Bosch Base ECU
Description :	CAN CHECKSUM ERROR
Component :	CAN Terminating Resistor: M4 - Battery feed (Fused 3A), M3/L3 - Battery negative, M2 - Ignition Input, L2 - Chassis Ground, D4 - Can H J1939, E4 - Can L J1939, C3 - Can Shield J1939, J1 - Anti-Tamper link, K1 - Anti-Tamper Link, E2 - Alt Dr. Platform Display 5" and Display 7": J1939 Wiring and Sensors: Wire reel + Angle Sensor, Tilt sensor Chassis Angle. ECU Connections: JCB 444 T4F ENGINE ECU (CAN J1939, CAN 15765) to BOSCH BASE ECU Qx03 (CAN J1939, CAN 15765). Pin Lists: Left: D1 - J1939 CAN H, D2 - J1939 CAN L, D11 - 15765 CAN L, D12 - 15765 CAN H. Right: A - -VE, B - +VE 10A Fused, C - J1939 CAN H, D - J1939 CAN L, E - J1939 Shield, F - , G - , H - Kohler 15765, J - Kohler 15765. Other Labels: BASE - PRIMARY DIAUGNETIC CONNECTOR, Fit blanking cap.
Vehicle reaction:	When CAN CHECKSUM ERROR is detected: 1. Recipient ignores received CAN message and reports the fault code. 2. Recipient retains existing values.

	3. Recipient resets RC (rolling counter. to 0 4. Transmitter re-transmits CAN message requested by Recipient with RC set to 0.
Possible Cause:	Corruption/Loss of CAN Messages.
Service Action:	Check for the Valid message from transmitter
Other:	N/A



9.1.201 B1329-13

Error Code:	B1329-13
ECU	Bosch Platform ECU
Description :	JIB/PLATFORM FLOW HS Sol SC to High
Component :	Jib/Platform Rotate 
Vehicle reaction:	When JIB/PLATFORM FLOW HS Sol SC to High fault is detected: 1. It detects failure mode for SC to High. 2. It disables platform rotate. 3. It allows Jib functions. 4. log error code & set fault indicators.

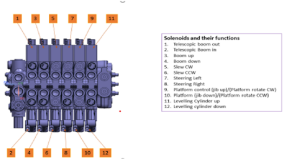
	Note: Before Ignition ON, POST Fail (stuck in startup logic for SC to High only. and Generic o/p fault.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 153. on connector 2. Check voltage on wire (pin 153. 3. Machine restart
Other:	N/A



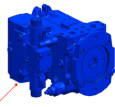
9.1.202 B1330-16

Error Code:	B1330-16
ECU	Bosch Platform ECU
Description :	JIB/PLATFORM FLOW HS Sol SC to Low
Component :	Jib/Platform Rotate









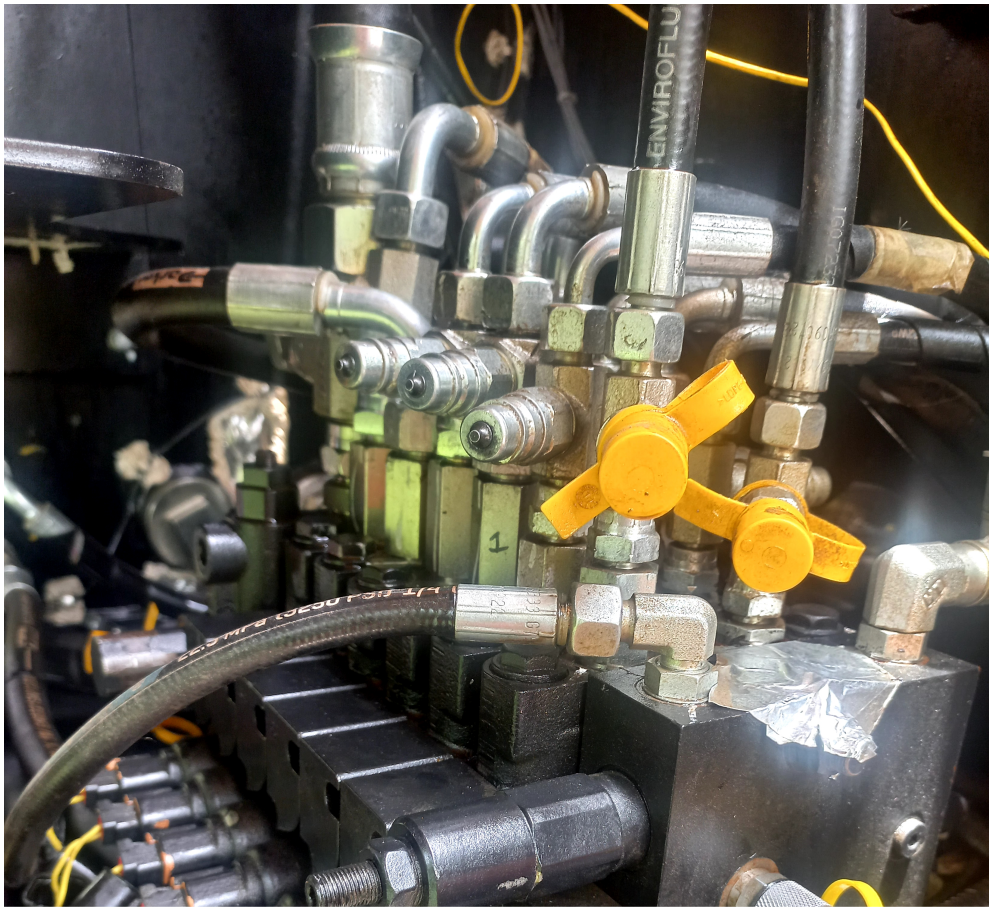
Jib/Platform proportional solenoid valve

Vehicle reaction:	When JIB/PLATFORM FLOW HS Sol SC to Low fault is detected: 1. It detects failure mode for SC to Low. 2. It disables platform rotate. 3. It allows Jib functions. 4. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 153. on connector 2. Check voltage on wire (pin 153. 3. Machine restart
Other:	N/A



9.1.203 B1331-13

Error Code:	B1331-13
ECU	Bosch Base ECU
Description :	FORWARD OR REVERSE Proportional Solenoid Valve Fault
Component :	Forward And Reverse Proportional Solenoid Valve

	
Vehicle reaction:	When FORWARD OR REVERSE Proportional Solenoid Valve fault is detected: 1. It Detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. Switch drive o/ps (but not steer. to off (Brake comes ON automatically. 3. log error code & set fault indicator.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.

Service Action:	1. Check pin connection (pin 186. on connector 2. Check voltage on wire (pin 186. 3. Check pin connection (pin 152. on connector 4. Check voltage on wire (pin 152. 5. Check pin connection (pin 176. on connector 6. Check voltage on wire (pin 176. 7. Machine restart
Other:	N/A



9.1.204 B1335-17

Error Code:	B1335-17
ECU	Bosch Base ECU
Description :	MAIN BOOM RAISE OR LOWER PROPORTIONAL Solenoid Valve LS SC to High
Component :	Main Boom
Vehicle reaction:	When MAIN BOOM RAISE OR LOWER PROPORTIONAL Solenoid Valve LS SC to High fault is detected: 1. It detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is

	improved with the interconnection. 2. It disables the MB RAISE and MB LOWER HS & LS outputs. 3. log error code & set fault indicators. Note: Before Ignition ON, POST Fail (stuck in startup logic. and Generic o/p fault
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise
Service Action:	1. Check pin connection (pin 184. on connector 2. Check voltage on wire (pin 184. 3. Machine restart
Other:	N/A



9.1.205 B1336-16

Error Code:	B1336-16
ECU	Bosch Base ECU
Description :	MAIN BOOM RAISE OR LOWER PROPORTIONAL Solenoid Valve LS SC to Low
Component :	Main Boom

Vehicle reaction:	When MAIN BOOM RAISE OR LOWER PROPORTIONAL Solenoid Valve LS SC to Low fault is detected: 1. It detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. It disables the MB RAISE and MB LOWER HS & LS outputs. 3. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise
Service Action:	1. Check pin connection (pin 184. on connector 2. Check voltage on wire (pin 184. 3. Machine restart
Other:	N/A



9.1.206 B1337-13

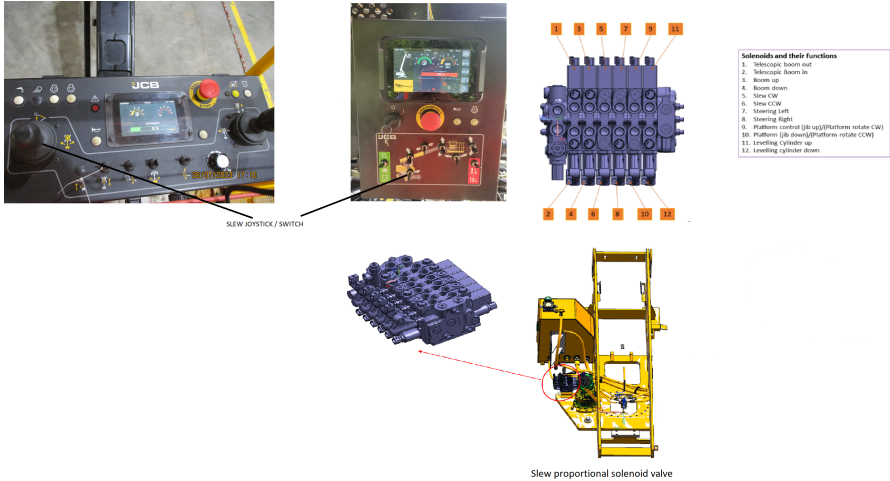
Error Code:	B1337-13
ECU	Bosch Base ECU
Description :	MAIN BOOM RAISE OR LOWER PROPORTIONAL Solenoid Valve LS OC
Component :	Main Boom

Vehicle reaction:	When MAIN BOOM RAISE OR LOWER PROPORTIONAL Solenoid Valve LS OC fault is detected: 1. It detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. It disables the MB RAISE and MB LOWER HS & LS outputs. 3. log error code & set fault indicators.
Possible Cause:	1. Open circuit of any conductor. 2. Does not energise.
Service Action:	1. Check pin connection (pin 184. on connector 2. Check voltage on wire (pin 184. 3. Machine restart
Other:	N/A



9.1.207 B1338-17

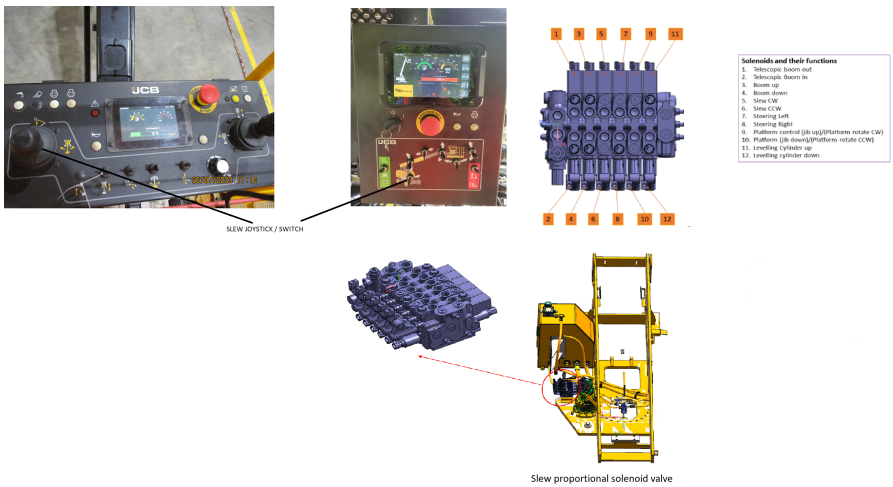
Error Code:	B1338-17
ECU	Bosch Base ECU

Description :	SLEW RIGHT OR LEFT PROPORTIONAL Solenoid Valve LS SC to High
Component :	Slew  SLEW JOYSTICK / SWITCH Slew proportional solenoid valve Solenoids and their functions 1. Telescope boom out 2. Telescope boom in 3. Boom up 4. Boom down 5. Slew CW 6. Slew CCW 7. Steering left 8. Steering right 9. Platform control (lift up)/(Platform rotate CW) 10. Platform (lift down)/(Platform rotate CCW) 11. Leveling cylinder up 12. Leveling cylinder down
Vehicle reaction:	When SLEW RIGHT OR LEFT PROPORTIONAL Solenoid Valve LS SC to High fault is detected: 1. It Detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. It disables the Slew HS & LS outputs. 3. log error code & set fault indicator. Note: Before Ignition ON, POST Fail (stuck in startup logic. and Generic o/p fault
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 187. on connector 2. Check voltage on wire (pin 187. 3. Machine restart

Other:	N/A
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9.1.208 B1339-16

Error Code:	B1339-16
ECU	Bosch Base ECU
Description	SLEW RIGHT OR LEFT PROPORTIONAL Solenoid Valve LS SC to Low :
Component	Slew  SLEW JOYSTICK / SWITCH Slew proportional solenoid valve Solenoids and their functions 1. Telescope boom out 2. Telescope boom in 3. Boom up 4. Boom down 5. Slew CW 6. Slew CCW 7. Steering left 8. Steering right 9. Platform control (jib up)/(Platform rotate CW) 10. Platform (jib down)/(Platform rotate CCW) 11. Leveling cylinder up 12. Leveling cylinder down
Vehicle reaction:	When SLEW RIGHT OR LEFT PROPORTIONAL Solenoid Valve LS SC to Low fault is detected: 1. It Detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. It disables the Slew HS & LS outputs. 3. log error code & set fault indicator.
Possible Cause:	1. The short between any two conductors.

	2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 187. on connector 2. Check voltage on wire (pin 187. 3. Machine restart
Other:	N/A



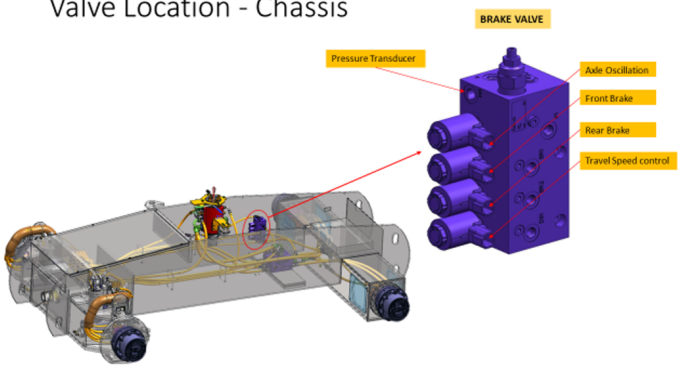
9.1.209 B1340-13

Error Code:	B1340-13
ECU	Bosch Base ECU
Description :	SLEW RIGHT OR LEFT PROPORTIONAL Solenoid Valve LS OC
Component :	Slew Solenoids and their functions 1. Telescope boom out 2. Telescope boom in 3. Boom up 4. Boom down 5. Slew CW 6. Slew CCW 7. Steering left 8. Steering right 9. Platform control (Up-up)/(Platform rotate CW) 10. Platform (Jib down)/(Platform rotate CCW) 11. Leveling cylinder up 12. Leveling cylinder down Slew proportional solenoid valve
Vehicle reaction:	When SLEW RIGHT OR LEFT PROPORTIONAL Solenoid Valve LS OC fault is detected: 1. It Detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in

	both connection paths is possible and the error detection is improved with the interconnection. 2. It disables the Slew HS & LS outputs. 3. log error code & set fault indicator.
Possible Cause:	1. Open circuit of any conductor. 2. Does not energise.
Service Action:	1. Check pin connection (pin 187. on connector 2. Check voltage on wire (pin 187. 3. Machine restart
Other:	N/A



9.1.210 B1347-17

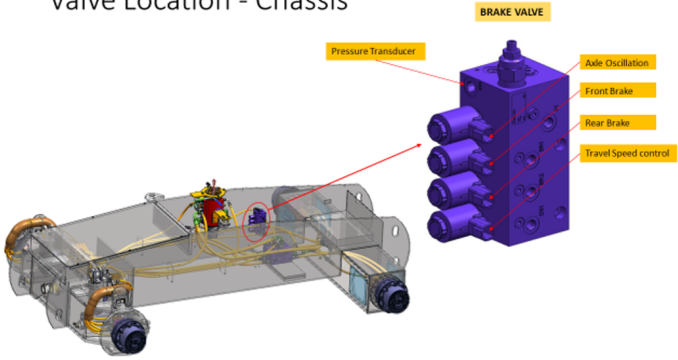
Error Code:	B1347-17
ECU	Bosch Base ECU
Description :	OSCILLATING AXLE Solenoid Valve LS SC to High
Component :	Oscillating Axle  Valve Location - Chassis  oscillating axle pressure sensor
Vehicle reaction:	When OSCILLATING AXLE Solenoid Valve LS SC to High fault is detected: 1. It Detects failure mode with Safout method- The SAFOUT module delivers with the interconnection from high side output

	channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. Switch Axle Lock o/p to off. 3.log error code & set fault indicator. 4. Base disables Main Boom and Artic Boom Lift , Main Boom Extend, Slew and Drive functions (in slew position and Raised mode.. Note: Before Ignition ON, POST Fail (stuck in startup logic. and Generic o/p fault
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 182. on connector 2. Check voltage on wire (pin 182. 3. Machine restart
Other:	N/A

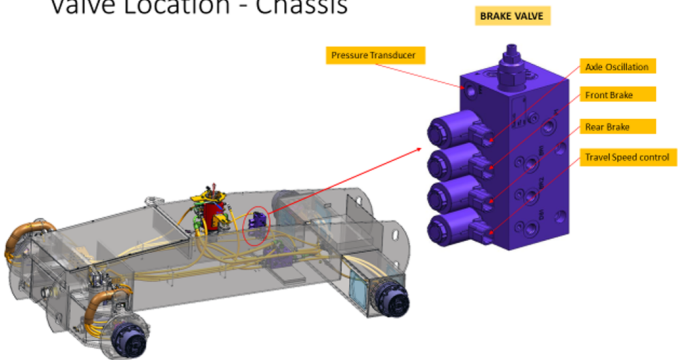


9.1.211 B1348-16

Error Code:	B1348-16
ECU	Bosch Base ECU
Description :	OSCILLATING AXLE Solenoid Valve LS SC to Low
Component :	Oscillating Axle

	 oscillating axle pressure sensor Valve Location - Chassis 
Vehicle reaction:	When OSCILLATING AXLE Solenoid Valve LS SC to Low fault is detected: 1. It Detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. Switch Axle Lock o/p to off. 3.log error code & set fault indicator. 4. Base disables Main Boom and Artic Boom Lift , Main Boom Extend, Slew and Drive functions (in slew position and Raised mode..
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 182. on connector 2. Check voltage on wire (pin 182. 3. Machine restart
Other:	N/A

9.1.212 B1349-13

Error Code:	B1349-13
ECU	Bosch Base ECU
Description :	OSCILLATING AXLE Solenoid Valve Fault
Component :	Oscillating Axle  oscillating axle pressure sensor Valve Location - Chassis 
Vehicle reaction:	When OSCILLATING AXLE Solenoid Valve fault is detected: 1. It Detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. Switch Axle Lock o/p to off. 3.log error code & set fault indicator. 4. Base disables Main Boom and Artic Boom Lift , Main Boom Extend, Slew and Drive functions (in slew position and Raised mode...
Possible Cause:	1. Open circuit of any conductor. 2. Does not energise.
Service Action:	1. Check pin connection (pin 131. on connector 2. Check voltage on wire (pin 131. 3. Check pin connection (pin 182. on connector

	4. Check voltage on wire (pin 182). 5. Machine restart
Other:	N/A



9.1.213 B1353-16

Error Code:	B1353-16
ECU	Bosch Base ECU
Description :	ENGINE IGNITION SC to Low
Component :	Engine   ENGINE START
Vehicle reaction:	When ENGINE IGNITION SC to Low fault is detected: 1. It Detects failure mode. 2. log error code & set fault indicators. 3. Switch Engine ignition o/p to off.
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding.

	3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 189. on connector 2. Check voltage on wire (pin 189. 3. Machine restart
Other:	N/A



9.1.214 B1354-13

Error Code:	B1354-13
ECU	Bosch Base ECU
Description :	ENGINE IGNITION OC
Component :	Engine   ENGINE START
Vehicle reaction:	When ENGINE IGNITION OC fault is detected: 1. It Detects failure mode. 2. log error code & set fault indicators. 3. Switch Engine ignition o/p to off.
Possible Cause:	1. The open circuit of any conductor. 2. Interruption in power supply.

	3. No operation of switch due to mechanical failure.
Service Action:	1. Check pin connection (pin 189. on connector) 2. Check voltage on wire (pin 189. 3.No input request
Other:	N/A



9.1.215 B1355-16

Error Code:	B1355-16
ECU	Bosch Platform ECU
Description :	HYDRAULIC GENERATOR Valve SC to Low
Component :	Hydraulic Generator  HYDRAULIC GENERATOR PUSH BUTTON
Vehicle reaction:	When HYDRAULIC GENERATOR Valve SC to Low fault detected: 1. It disables Hydraulic Generator outputs. 2. log error code & set fault indicators.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-ver switch

Service Action:	1. Check pin connection (pin 241. on connector) 2. Check voltage on wire (pin 241. 3. Machine restart
Other:	N/A



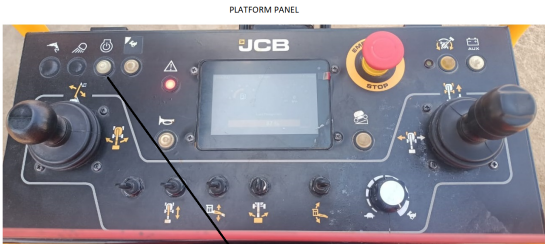
9.1.216 B1356-13

Error Code:	B1356-13
ECU	Bosch Base ECU
Description :	HYDRAULIC GENERATOR Valve HS SC to High or OC
Component :	Hydraulic Generator  HYDRAULIC GENERATOR PUSH BUTTON
Vehicle reaction:	When HYDRAULIC GENERATOR Valve HS SC to High or OC fault detected: 1. It disables Hydraulic Generator outputs. 2. log error code & set fault indicators.
Possible Cause:	For SC to High: 1. The Short Circuit between any two conductors. 2. Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Short circuit between all connections. 4. Short circuit between any two connections

	5. Random change of value. For OC: 1. Open circuit of any conductor (D.4.. 2. Interruption in power supply (D.10.. 3. Open circuit of individual connection
Service Action:	1. Check pin connection (pin 241. on connector 2. Check voltage on wire (pin 241. 3. No input request
Other:	N/A



9.1.217 B1357-16

Error Code:	B1357-16
ECU	Bosch Base ECU
Description :	ENGINE CRANK SC to Low
Component :	Engine   ENGINE START
Vehicle reaction:	When ENGINE CRANK SC to Low Fault is detected: 1. log error code & set fault indicators.

	2. disable engine ignition signal (Pin 189.
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 194. on connector 2. Check voltage on wire (pin 194. 3. Machine restart
Other:	N/A



9.1.218 B1358-13

Error Code:	B1358-13
ECU	Bosch Base ECU
Description :	ENGINE CRANK SC to High or OC
Component :	Engine 

Vehicle reaction:	When ENGINE CRANK SC to High or OC Fault is detected: 1. log error code & set fault indicators. 2. disable engine ignition signal (Pin 189.
Possible Cause:	For SC to High: 1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch. For OC: 1. The open circuit of any conductor. 2. Interruption in power supply. 3. No operation of switch due to mechanical failure.
Service Action:	1. Check pin connection (pin 194. on connector 2. Check voltage on wire (pin 194. 3. No input request
Other:	N/A



9.1.219 B1360-0

Error Code:	B1360-0
ECU	Bosch Base ECU
Description :	COOLANT TEMPERATURE exceeds upper limit
Component :	Coolant Level Sensor

	
Vehicle reaction:	COOLANT TEMPERATURE exceeds upper limit fault is detected: 1. log error code & set fault indicators.
Possible Cause:	0
Service Action:	No input request
Other:	N/A



9.1.220 B1362-13

Error Code:	B1362-13
ECU	Bosch Base ECU
Description :	BEACON 2 OC
Component :	Beacon

	 BEACON
Vehicle reaction:	When BEACON 2 OC fault detected: 1. It sets the fault code & fault indicators.
Possible Cause:	1. Open circuit of any conductor. 2. Interruption in power supply. 3. No operation of switch due to mechanical failure.
Service Action:	1. Check pin connection (pin 257. on connector 2. Check voltage on wire (pin 257. 3. No input request
Other:	N/A



9.1.221 B1363-16

Error Code:	B1363-16
ECU	Bosch Base ECU
Description :	BEACON 2 SC to Low
Component :	Beacon

	 BEACON
Vehicle reaction:	When BEACON 2 SC to Low fault detected: 1. It sets the fault code & fault indicators.
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch
Service Action:	1. Check pin connection (pin 257. on connector 2. Check voltage on wire (pin 257. 3. Machine restart
Other:	N/A



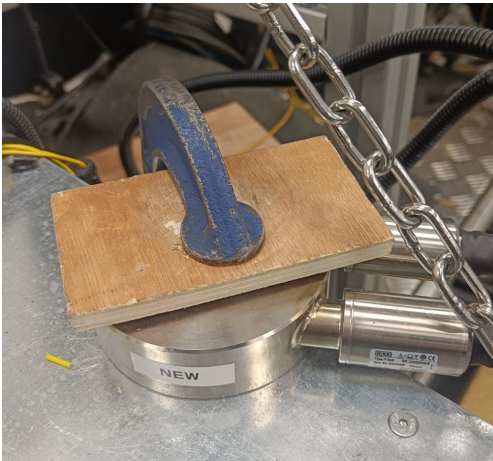
9.1.222 B1365-17

Error Code:	B1365-17
ECU	Bosch Platform ECU
Description :	LOAD SENSOR 1 OOR High

Component :	Load Sensor
Vehicle reaction:	When LOAD SENSOR 1 OOR High Fault is detected: 1.It implements overload alarm. 2.It prevents all movements. 3. log error code & set fault indicator.
Possible Cause:	1. The Short circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding.
Service Action:	1. Check pin connection (pin 169. on connector 2. Check voltage on wire (pin 169. 3. No input request.
Other:	N/A



9.1.223 B1366-16

Error Code:	B1366-16
ECU	Bosch Platform ECU
Description :	LOAD SENSOR 1 OOR Low OR OC
Component :	Load Sensor 

Vehicle reaction:	When LOAD SENSOR 1 OOR Low or OC Fault is detected: 1.It implements overload alarm. 2.It prevents all movements. 3. log error code & set fault indicator.
Possible Cause:	For Sc to Low: 1. The Short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. For OC: 1. The Open circuit of any conductor . 2. The Interruption in power supply. 3. No operation of switch due to mechanical failure .
Service Action:	1. Check pin connection (pin 169. on connector 2. Check voltage on wire (pin 169. 3. No input request.
Other:	N/A



9.1.224 B1367-17

Error Code:	B1367-17
ECU	Bosch Platform ECU
Description :	LOAD SENSOR 2 OOR High
Component :	Load Sensor
Vehicle reaction:	When LOAD SENSOR 2 OOR High Fault is detected: 1.It implements overload alarm. 2.It prevents all movements. 3. log error code & set fault indicator.

Possible Cause:	1. The Short circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding.
Service Action:	1. Check pin connection (pin 170. on connector 2. Check voltage on wire (pin 170. 3. No input request.
Other:	N/A



9.1.225 B1368-16

Error Code:	B1368-16
ECU	Bosch Platform ECU
Description :	LOAD SENSOR 2 OOR Low OR OC
Component :	Load Sensor
Vehicle reaction:	When LOAD SENSOR 2 OOR Low or OC Fault is detected: 1.It implements overload alarm. 2.It prevents all movements. 3. log error code & set fault indicator.
Possible Cause:	For Sc to Low: 1. The Short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. For OC: 1. The Open circuit of any conductor . 2. The Interruption in power supply. 3. No operation of switch due to mechanical failure .
Service Action:	1. Check pin connection (pin 170. on connector 2. Check voltage on wire (pin 170. 3. No input request.

Other:	N/A
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JCB

9.1.226 B1369-87

Error Code:	B1369-87
ECU	Bosch Base ECU
Description :	MAIN BOOM ANGLE SENSOR Communication fault
Component :	Main Boom Angle Sensor
Vehicle reaction:	When MAIN BOOM ANGLE SENSOR Communication fault is detected: 1.Limit to 450 kg load reaction. 2.It stops Main Boom Raise and lower operation. 3. log error code & set fault indicators.
Possible Cause:	1.Either Any one or both the CAN channels of the sensor gets disconnected. 2. No power supply to the sensor.
Service Action:	1. Check the CAN H 2. Check the CAN L 3.Check Sensor power supply. 4. Machine restart
Other:	N/A

JCB

9.1.227 B1370-2F

Error Code:	B1370-2F
ECU	Bosch Base ECU

Description :	MAIN BOOM ANGLE SENSOR Channel plausibility fault
Component :	Main Boom Angle Sensor
Vehicle reaction:	When MAIN BOOM ANGLE SENSOR Channel plausibility fault is detected: 1.Limit to 450 kg load reaction. 2.It stops Main Boom Raise and lower operation. 3. log error code & set fault indicators.
Possible Cause:	1. Faulty main boom angle sensor. 2. Any one of the channel gets disconnected.
Service Action:	1. Check the CAN H 2. Check the CAN L 3.Check Sensor power supply. 4. Machine restart
Other:	N/A



9.1.228 B1371-17

Error Code:	B1371-17
ECU	Bosch Base ECU
Description :	MAIN BOOM ANGLE Working Range fault
Component :	Main Boom Angle Sensor
Vehicle reaction:	When MAIN BOOM ANGLE Working Range fault is detected: 1.It Stops Main Boom Raise if angle >72.3 2. It Stops MB lower if angle<-14.2 3. log error code & set fault indicator.
Possible Cause:	1. Faulty main boom angle sensor. 2.Either Any one or both the CAN channels of the sensor gets

	disconnected..
Service Action:	1. make sure the main boom angle is in the range. 2. Machine restart
Other:	N/A



9.1.229 B1373-87

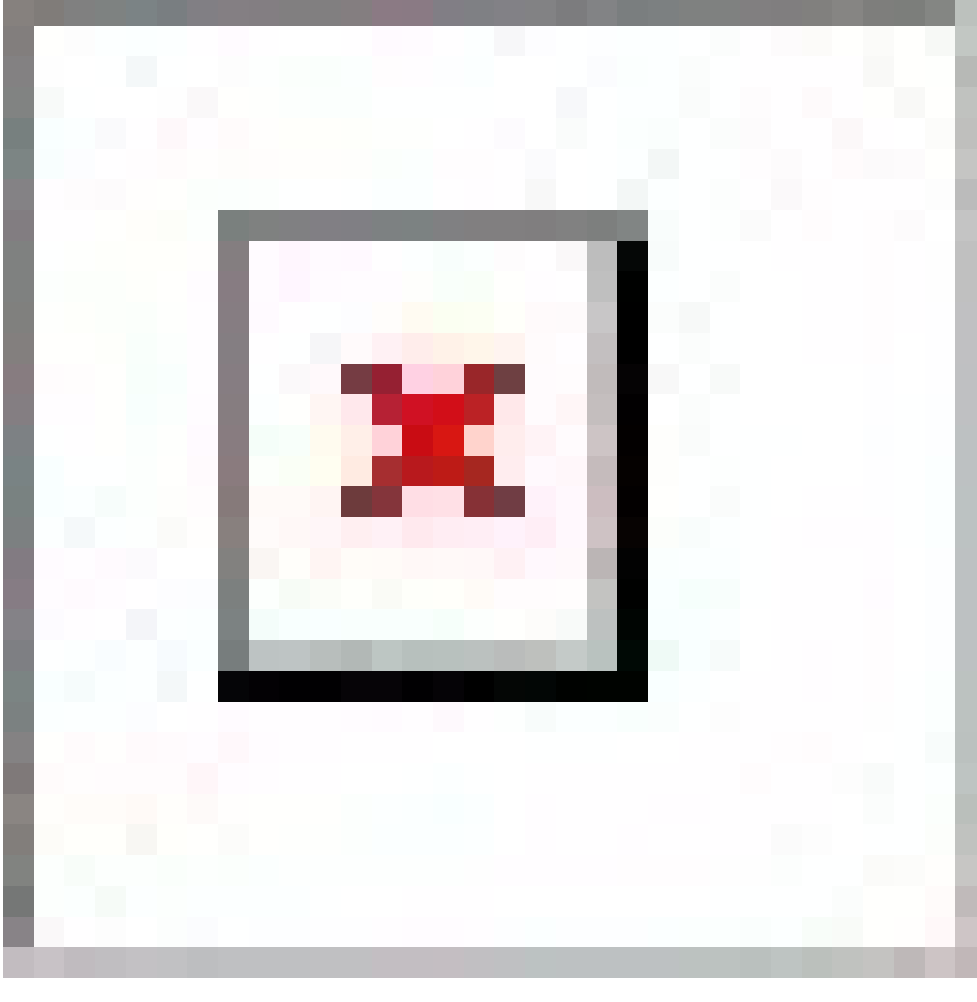
Error Code:	B1373-87
ECU	Bosch Base ECU
Description :	TELESCOPIC BOOM LENGTH SENSOR Communication fault
Component :	Main Boom Angle Sensor 
Vehicle reaction:	When TELESCOPIC BOOM LENGTH SENSOR Communication fault is detected: 1. It Stops Boom extend. 2. log error code & set fault indicator. 3. IT first retract the boom and then lower is allowed.
Possible Cause:	1. Either Any one or both the CAN channels of the sensor gets

	disconnected. 2. No power supply to the sensor.
Service Action:	1. Check the CAN H 2. Check the CAN L 3. Check Sensor power supply. 4. Machine restart
Other:	N/A



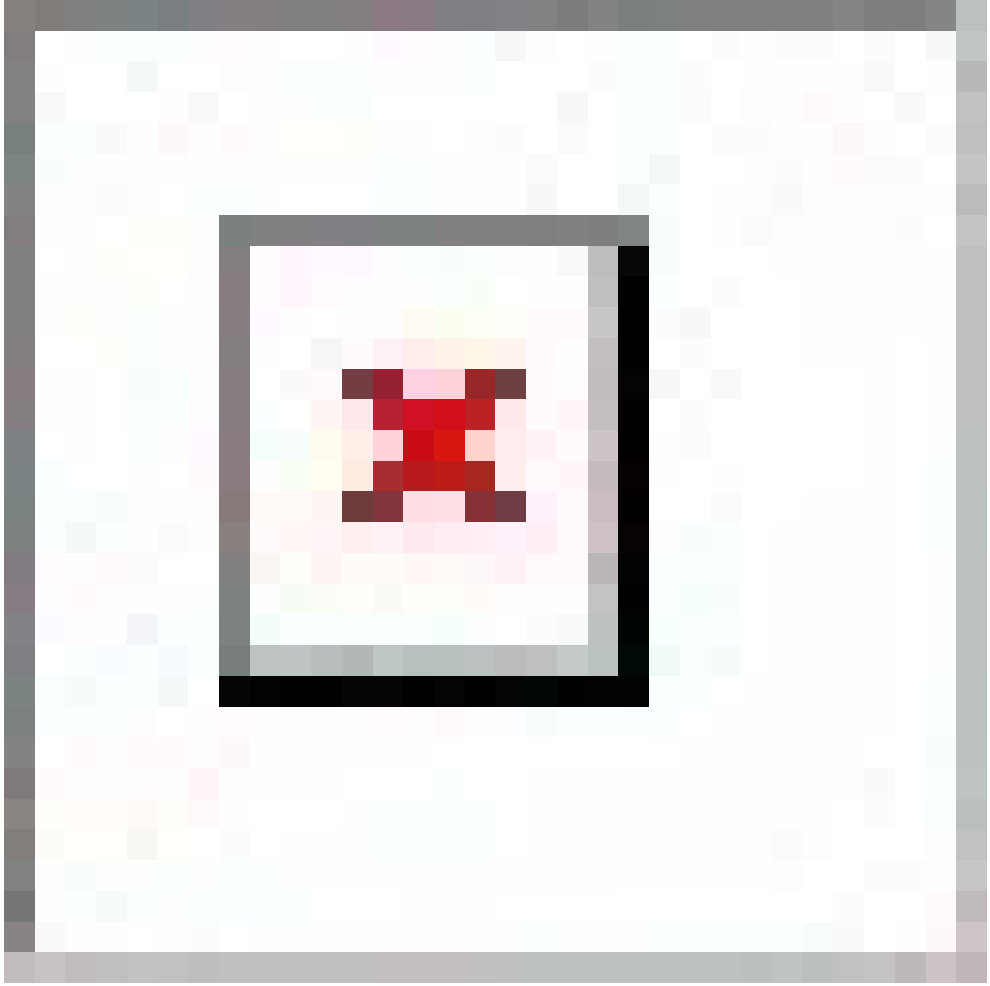
9.1.230 B1374-2F

Error Code:	B1374-2F
ECU	Bosch Base ECU
Description :	TELESCOPIC BOOM LENGTH SENSOR Channel plausibility fault
Component :	Main Boom Angle Sensor

	
Vehicle reaction:	When TELESCOPIC BOOM LENGTH SENSOR Channel plausibility fault is detected: 1. It Stops Boom extend. 2. log error code & set fault indicator. 3. IT first retract the boom and then lower is allowed.
Possible Cause:	1. Faulty main boom length sensor. 2. Either Any one or both the CAN channels of the sensor gets disconnected.
Service Action:	1. Check the CAN H 2. Check the CAN L 3. Check Sensor power supply. 4. Machine restart
Other:	N/A



9.1.231 B1375-17

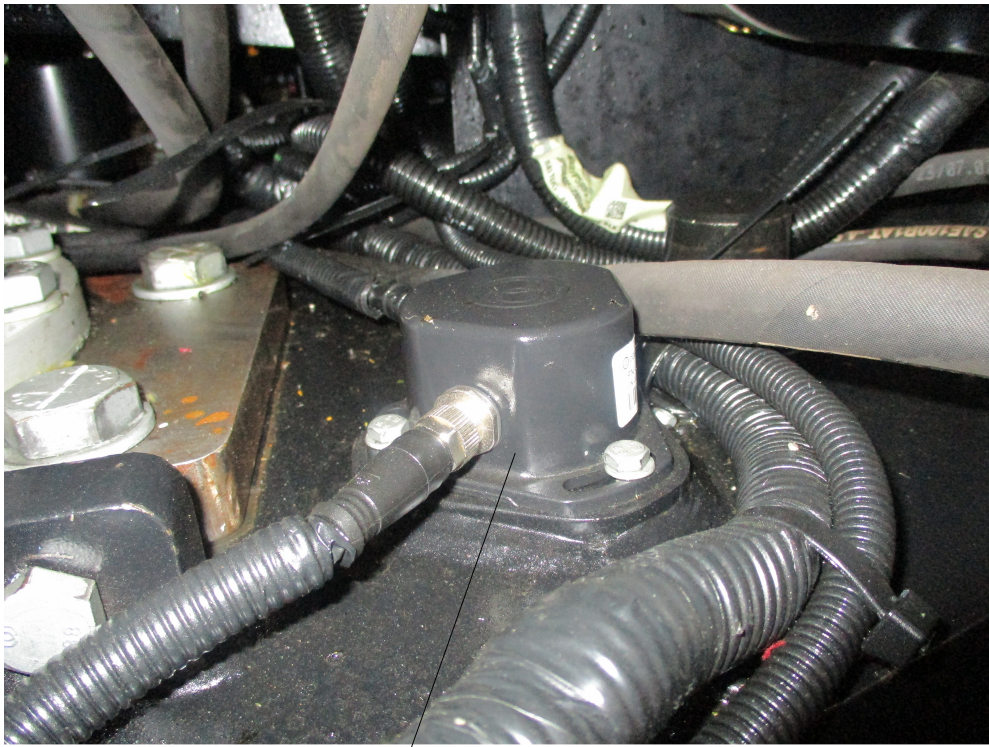
Error Code:	B1375-17
ECU	Bosch Base ECU
Description :	TELESCOPIC BOOM LENGTH Range fault
Component :	Main Boom Angle Sensor 
Vehicle reaction:	When TELESCOPIC BOOM LENGTH Range fault is detected: 1. It prevents Boom extend functionality. 2. log error code & set fault indicators.

	3. It only allow retract if length is out of range when platform is out of 450kg Zone and after that lower is allowed.
Possible Cause:	1. Faulty main boom length sensor. 2. Any one of the channel gets disconnected.
Service Action:	1. Check the CAN H 2. Check the CAN L 3. Check Sensor power supply. 4. Machine restart
Other:	N/A



9.1.232 B1376-87

Error Code:	B1376-87
ECU	Bosch Base ECU
Description :	TILT ANGLE SENSOR Communication fault
Component :	Tilt Sensor

	 TILT SENSOR
Vehicle reaction:	When TILT ANGLE SENSOR Communication fault is detected: 1. In stowed mode - It Stops\disables the main Boom raise and Telescopic boom extend operation. 2. In raised mode - First allow retract function until boom length= MIN retract boom length (i.e.0%. then allow main boom lower function. 3. log error code & set fault indicators.
Possible Cause:	1. Either Any one or both the CAN channels of the sensor gets disconnected. 2. No power supply to the sensor.
Service Action:	1. Check the CAN H 2. Check the CAN L 3. Check Sensor power supply. 4. Machine restart
Other:	N/A



9.1.233 B1377-2F

Error Code:	B1377-2F
ECU	Bosch Base ECU
Description :	TILT ANGLE SENSOR Channel plausibility fault
Component :	Tilt Sensor  TILT SENSOR
Vehicle reaction:	When TILT ANGLE SENSOR Channel plausibility fault is detected: 1. In stowed mode - It Stops\disables the main Boom raise and Telescopic boom extend operation. 2. In raised mode - First allow retract function until boom length= MIN retract boom length (i.e.0%. then allow main boom lower function. 3. log error code & set fault indicators.

Possible Cause:	1. Faulty tilt angle sensor. 2. Any one of the channel gets disconnected.
Service Action:	1. Check the CAN H 2. Check the CAN L 3. Check Sensor power supply. 4. Machine restart
Other:	N/A



9.1.234 B1378-17

Error Code:	B1378-17
ECU	Bosch Base ECU
Description :	TILT ANGLE SENSOR Range fault
Component :	Tilt Sensor  TILT SENSOR

Vehicle reaction:	When TILT ANGLE SENSOR Range fault is detected: 1. In stowed mode - It Stops\disables the main Boom raise and Telescopic boom extend operation. 2. In raised mode - First allow retract function until boom length= MIN retract boom length (i.e.0%. then allow main boom lower function. 3. log error code & set fault indicators.
Possible Cause:	1. Faulty tilt angle sensor. 2.Either Any one or both the CAN channels of the sensor gets disconnected.
Service Action:	1. Check the CAN H 2. Check the CAN L 3.Check Sensor power supply. 4. Machine restart
Other:	N/A



9.1.235 B1379-13

Error Code:	B1379-13
ECU	Bosch Base ECU
Description :	ROPE SWITCH 1 OC & SC to Low
Component :	Rope Switch
Vehicle reaction:	When ROPE SWITCH 1 OC & SC to Low fault is detected: 1. It disables the main boom raise & extend. 2. log error code & set fault indicators
Possible Cause:	1. The open circuit of any conductor. 2. Interruption in power supply. 3. No operation of switch due to mechanical failure.

Service Action:	1. Check pin connection (pin 119. on connector) 2. Check voltage on wire (pin 119. 3. Machine restart
Other:	N/A



9.1.236 B1381-17

Error Code:	B1381-17
ECU	Bosch Base ECU
Description :	TELE BOOM EXTEND\RETRACT PROPORTIONAL HS SC to high
Component :	Main Telescopic Boom
Vehicle reaction:	When TELE BOOM EXTEND\RETRACT PROPORTIONAL HS SC to high fault is detected: 1. It detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. It disables MB EXTEND and MB RETRACT HS & LS outputs. 3. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise
Service Action:	1. Check pin connection (pin 151. on connector) 2. Check voltage on wire (pin 151. 3. Check pin connection (pin 175. on connector

	4. Check voltage on wire (pin 175. 5. Machine restart
Other:	N/A

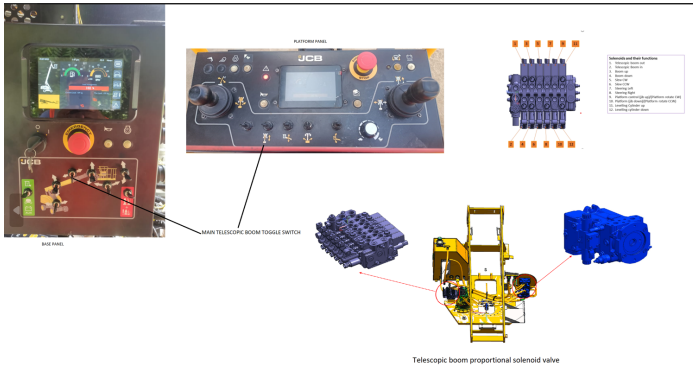


9.1.237 B1382-16

Error Code:	B1382-16
ECU	Bosch Base ECU
Description :	TELE BOOM EXTEND\RETRACT PROPORTIONAL HS SC to low
Component :	Main Telescopic Boom
Vehicle reaction:	When TELE BOOM EXTEND\RETRACT PROPORTIONAL HS SC to Low fault is detected: 1. It detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. It disables MB EXTEND and MB RETRACT HS & LS outputs. 3. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise
Service Action:	1. Check pin connection (pin 151. on connector 2. Check voltage on wire (pin 151. 3. Check pin connection (pin 175. on connector 4. Check voltage on wire (pin 175. 5. Machine restart
Other:	N/A



9.1.238 B1383-13

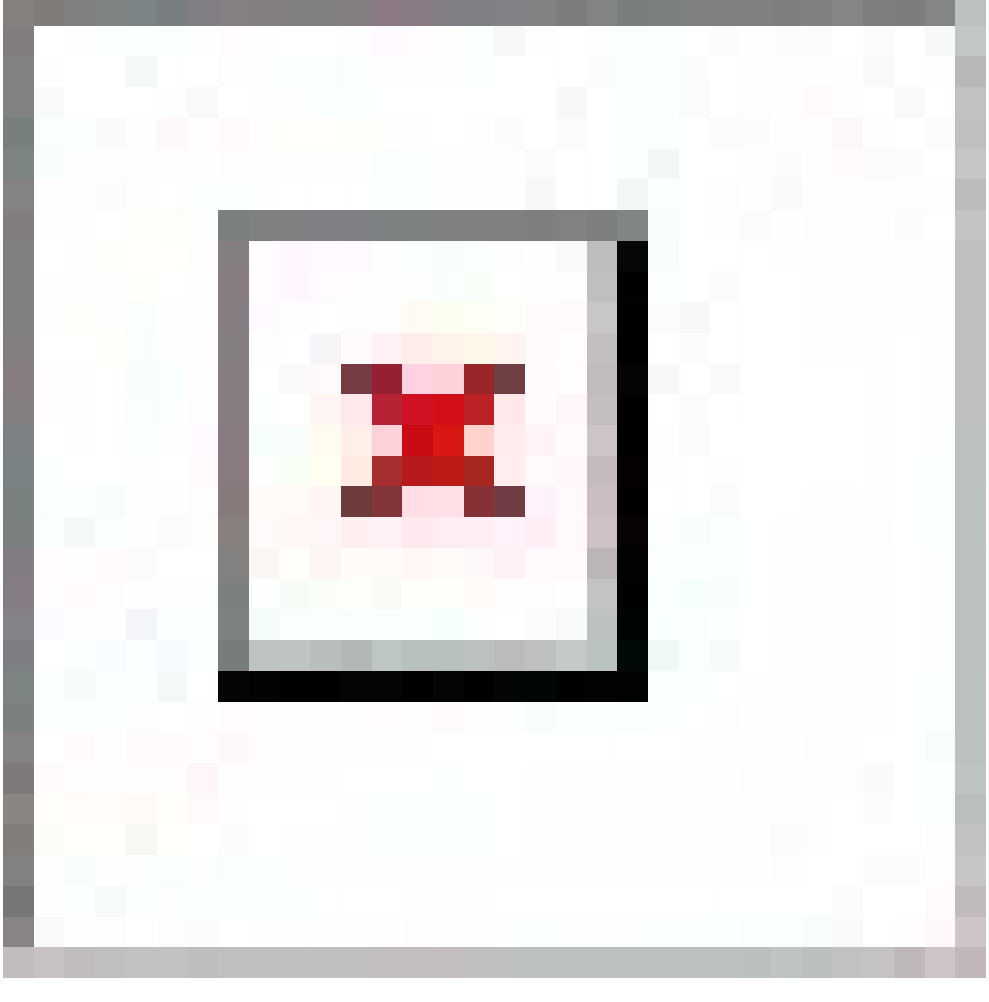
Error Code:	B1383-13
ECU	Bosch Base ECU
Description :	TELE BOOM EXTEND\RETRACT PROPORTIONAL HS OC
Component :	Main Telescopic Boom 
Vehicle reaction:	When TELE BOOM EXTEND\RETRACT PROPORTIONAL HS OC fault is detected: 1. It detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. It disables MB EXTEND and MB RETRACT HS & LS outputs. 3. log error code & set fault indicators. Note:During operation , refer toTELE BOOM EXTEND\RETRACT PROPORTIONAL LS OC Fault code
Possible Cause:	1. Open circuit of any conductor. 2. Does not energise.

Service Action:	1. Check pin connection (pin 151. on connector 2. Check voltage on wire (pin 151. 3. Check pin connection (pin 175. on connector 4. Check voltage on wire (pin 175. 5. Machine restart
Other:	N/A



9.1.239 B1384-17

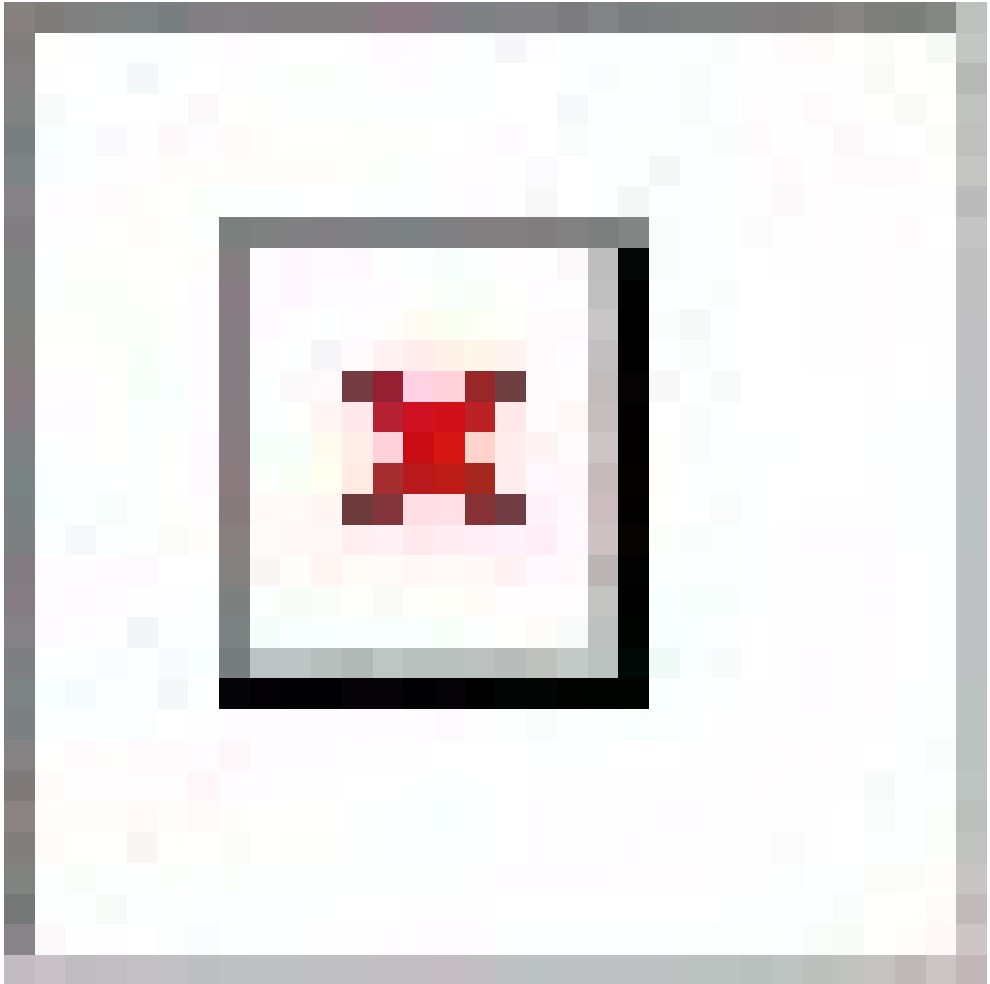
Error Code:	B1384-17
ECU	Bosch Base ECU
Description :	TELE BOOM EXTEND\RETRACT PROPORTIONAL LS SC to high
Component :	Main Telescopic Boom

	
Vehicle reaction:	When TELE BOOM EXTEND\RETRACT PROPORTIONAL LS SC to high fault is detected: 1. It detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. It disables MB EXTEND and MB RETRACT HS & LS outputs. 3. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise

Service Action:	1. Check pin connection (pin 185. on connector) 2. Check voltage on wire (pin 185. 3. Machine restart
Other:	N/A



9.1.240 B1385-16

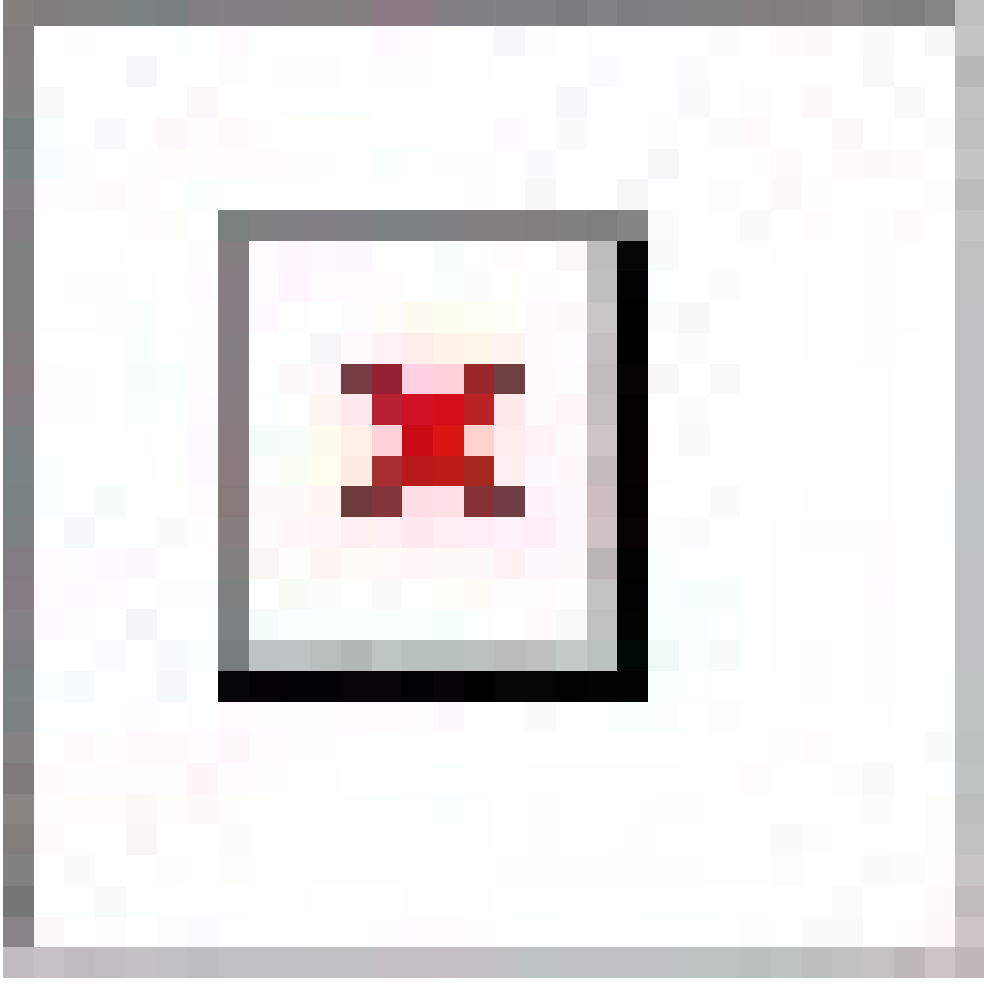
Error Code:	B1385-16
ECU	Bosch Base ECU
Description :	TELE BOOM EXTEND\RETRACT PROPORTIONAL LS SC to low
Component :	Main Telescopic Boom  A technical diagram of a telescopic boom. It shows a large rectangular frame with a thick black border. Inside this frame, there is a smaller rectangular area with a thick black border. Within this smaller area, there is a red cross-like shape made of several small squares, centered in the middle.

Vehicle reaction:	When TELE BOOM EXTEND\RETRACT PROPORTIONAL LS SC to Low fault is detected: 1. It detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. It disables MB EXTEND and MB RETRACT HS & LS outputs. 3. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise
Service Action:	1. Check pin connection (pin 185. on connector 2. Check voltage on wire (pin 185. 3. Machine restart
Other:	N/A



9.1.241 B1386-13

Error Code:	B1386-13
ECU	Bosch Base ECU
Description :	TELE BOOM EXTEND\RETRACT PROPORTIONAL LS OC
Component :	Main Telescopic Boom

	
Vehicle reaction:	When TELE BOOM EXTEND\RETRACT PROPORTIONAL LS OC fault is detected: 1. It detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. It disables MB EXTEND and MB RETRACT HS & LS outputs. 3. log error code & set fault indicators.
Possible Cause:	1. Open circuit of any conductor. 2. Does not energise.

Service Action:	1. Check pin connection (pin 185. on connector) 2. Check voltage on wire (pin 185. 3. Machine restart
Other:	N/A



9.1.242 B1387-17

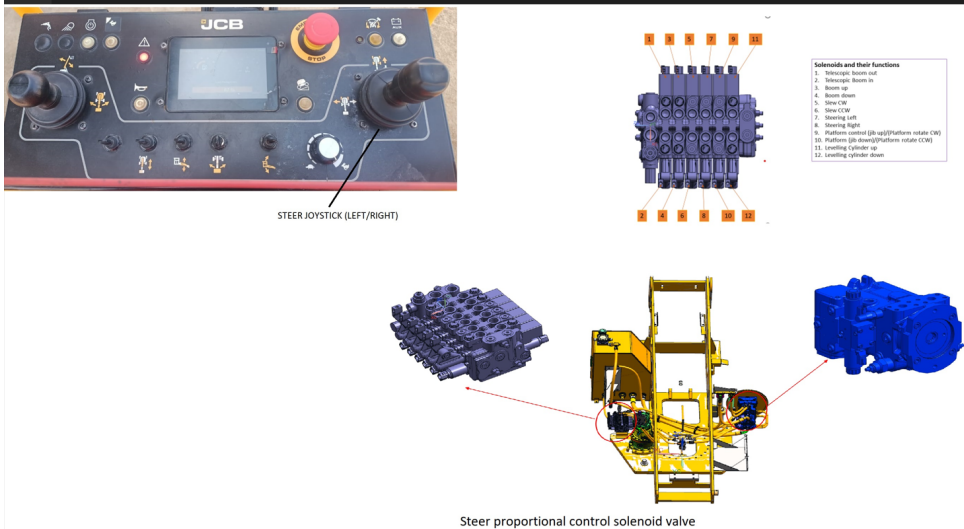
Error Code:	B1387-17
ECU	Bosch Base ECU
Description :	STEER LEFT\RIGHT PROPORTIONAL HS SC to high
Component :	Steer STEER JOYSTICK (LEFT/RIGHT) Steer proportional control solenoid valve Solenoids and their functions 1. Hydraulic Boom out 2. Hydraulic Boom in 3. Boom up 4. Boom down 5. Steer CW 6. Steer CCW 7. Steering Left 8. Steering Right 9. Platform control (Up-up)(Platform rotate CW) 10. Platform (Up-down)(Platform rotate CCW) 11. Lifting cylinder up 12. Lifting cylinder down
Vehicle reaction:	When STEER LEFT\RIGHT PROPORTIONAL HS SC to high fault is detected: 1. It detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection.

	2. It disables the Steer and Drive outputs. 3. log error code & set fault indicator. Note: Before Ignition ON, POST Fail (stuck in startup logic. and Generic o/p fault
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 150. on connector 2. Check voltage on wire (pin 150. 3. Check pin connection (pin 174. on connector 4. Check voltage on wire (pin 174. 5. Machine restart
Other:	N/A



9.1.243 B1388-16

Error Code:	B1388-16
ECU	Bosch Base ECU
Description :	STEER LEFT\RIGHT PROPORTIONAL HS SC to low
Component :	Steer

	 STEER JOYSTICK (LEFT/RIGHT) Steer proportional control solenoid valve Solenoids and their functions 1. Telescope boom out 2. Telescope boom in 3. Boom up 4. Boom down 5. Drive left 6. Drive right 7. Steering left 8. Steering right 9. Platform rotate (left-up) (Platform rotate CW) 10. Platform rotate (left-down) (Platform rotate CCW) 11. Lifting cylinder up 12. Lifting cylinder down
Vehicle reaction:	When STEER LEFT\RIGHT PROPORTIONAL HS SC to Low fault is detected: 1. It detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. It disables the Steer and Drive outputs. 3. log error code & set fault indicator.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 150. on connector 2. Check voltage on wire (pin 150. 3. Check pin connection (pin 174. on connector 4. Check voltage on wire (pin 174. 5. Machine restart
Other:	N/A

9.1.244 B1389-13

Error Code:	B1389-13
ECU	Bosch Base ECU
Description :	STEER LEFT\RIGHT PROPORTIONAL HS OC
Component :	Steer
Vehicle reaction:	When STEER LEFT\RIGHT PROPORTIONAL HS OC fault is detected: 1. It detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. It disables the Steer and Drive outputs. 3. log error code & set fault indicator. Note:During operation , refer to STEER LEFT\RIGHT PROPORTIONAL LS OC Fault code
Possible Cause:	1. Open circuit of any conductor. 2. Does not energise.

Service Action:	1. Check pin connection (pin 150. on connector 2. Check voltage on wire (pin 150. 3. Check pin connection (pin 174. on connector 4. Check voltage on wire (pin 174. 5. Machine restart
Other:	N/A



9.1.245 B1390-17

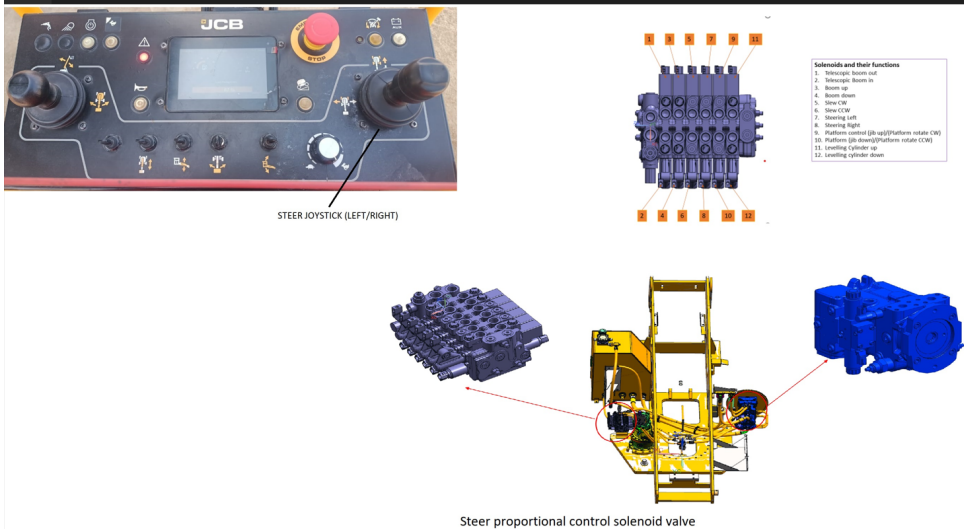
Error Code:	B1390-17
ECU	Bosch Base ECU
Description :	STEER LEFT\RIGHT PROPORTIONAL LS SC to high
Component :	Steer STEER JOYSTICK (LEFT/RIGHT) Steer proportional control solenoid valve Solenoids and their functions 1. Hydraulic Rammer out 2. Hydraulic Rammer in 3. Boom up 4. Boom down 5. Drive CW 6. Drive CCW 7. Steering left 8. Steering right 9. Platform control (tilt up)(Platform rotate CW) 10. Platform (tilt down)(Platform rotate CCW) 11. Lifting cylinder up 12. Lifting cylinder down
Vehicle reaction:	When STEER LEFT\RIGHT PROPORTIONAL LS SC to high fault is detected: 1. It detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in

	both connection paths is possible and the error detection is improved with the interconnection. 2. It disables the Steer and Drive outputs. 3. log error code & set fault indicator. Note: Before Ignition ON, POST Fail (stuck in startup logic. and Generic o/p fault
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.
Service Action:	3. Check pin connection (pin 180. on connector 4. Check voltage on wire (pin 180. 5. Machine restart
Other:	N/A



9.1.246 B1391-16

Error Code:	B1391-16
ECU	Bosch Base ECU
Description :	STEER LEFT\RIGHT PROPORTIONAL LS SC to low
Component :	Steer

	 STEER JOYSTICK (LEFT/RIGHT) Steer proportional control solenoid valve Solenoids and their functions 1. Telescope boom out 2. Telescope boom in 3. Boom up 4. Boom down 5. Drive left 6. Drive right 7. Steering left 8. Steering right 9. Platform control (up=up)(Platform rotate CW) 10. Platform (down)(Platform rotate CCW) 11. Lifting cylinder up 12. Lifting cylinder down
Vehicle reaction:	When STEER LEFT\RIGHT PROPORTIONAL LS SC to Low fault is detected: 1. It detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. It disables the Steer and Drive outputs. 3. log error code & set fault indicator.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.
Service Action:	3. Check pin connection (pin 180. on connector 4. Check voltage on wire (pin 180. 5. Machine restart
Other:	N/A

9.1.247 B1392-13

Error Code:	B1392-13
ECU	Bosch Base ECU
Description :	STEER LEFT\RIGHT PROPORTIONAL LS OC
Component :	Steer STEER JOYSTICK (LEFT/RIGHT) Steer proportional control solenoid valve Solenoids and their functions 1. Hydraulic Rammer out 2. Hydraulic Rammer in 3. Boom up 4. Boom down 5. Drive CW 6. Drive CCW 7. Steering left 8. Steering right 9. Platform control (Up-up)(Platform rotate CW) 10. Platform (Up-down)(Platform rotate CCW) 11. Lifting cylinder up 12. Lifting cylinder down
Vehicle reaction:	When STEER LEFT\RIGHT PROPORTIONAL LS OC fault is detected: 1. It detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. It disables the Steer and Drive outputs. 3. log error code & set fault indicator.
Possible Cause:	1. Open circuit of any conductor. 2. Does not energise.
Service Action:	3. Check pin connection (pin 180. on connector 4. Check voltage on wire (pin 180. 5. Machine restart
Other:	N/A



9.1.248 B1393-17

Error Code:	B1393-17
ECU	Bosch Base ECU
Description :	PLATFORM LEVEL RAISE\LOWER PROPORTIONAL HS SC to high
Component :	Platform Level
Vehicle reaction:	When PLATFORM LEVEL RAISE\LOWER PROPORTIONAL HS SC to high fault is detected: 1. It detect failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. Switch Platform Level o/ps to off. 3. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive

	channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. Switch Platform Level o/ps to off. 3. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 125. on connector 2. Check voltage on wire (pin 125. 3. Check pin connection (pin 129. on connector 4. Check voltage on wire (pin 129. 5. Machine restart
Other:	N/A

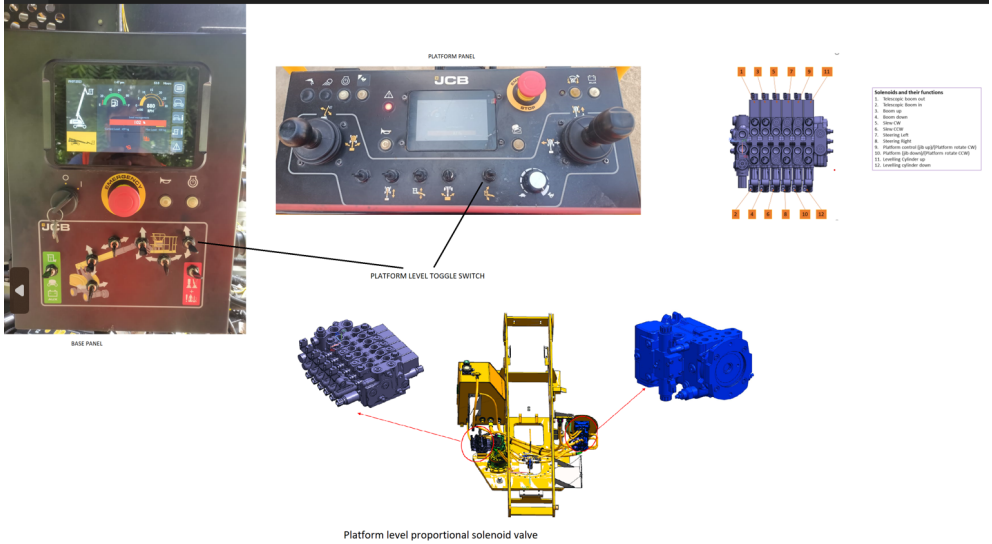


9.1.250 B1395-13

Error Code:	B1395-13
ECU	Bosch Base ECU
Description :	PLATFORM LEVEL RAISE\LOWER PROPORTIONAL HS OC
Component :	Platform Level

	PLATFORM PANEL BASE PANEL PLATFORM LEVEL TOGGLE SWITCH Platform level proportional solenoid valve Solenoids and their functions 1. Platform Level Raise 2. Platform Level Lower 3. Platform Level Stop 4. Platform Level Stop 5. Platform Level Stop 6. Platform Level Stop 7. Platform Level Stop 8. Platform Level Stop 9. Platform Level Stop 10. Platform Level Stop 11. Platform Level Stop 12. Platform Level Stop 13. Platform Level Stop
Vehicle reaction:	When PLATFORM LEVEL RAISE\LOWER PROPORTIONAL HS OC fault is detected: 1. It detect failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. Switch Platform Level o/ps to off. 3. log error code & set fault indicators. Note:During operation , refer to PLATFORM LEVEL RAISE\LOWER PROPORTIONAL LS OC Fault code
Possible Cause:	1. Open circuit of any conductor. 2. Does not energise.
Service Action:	1. Check pin connection (pin 125. on connector 2. Check voltage on wire (pin 125. 3. Check pin connection (pin 129. on connector 4. Check voltage on wire (pin 129. 5. Machine restart
Other:	N/A

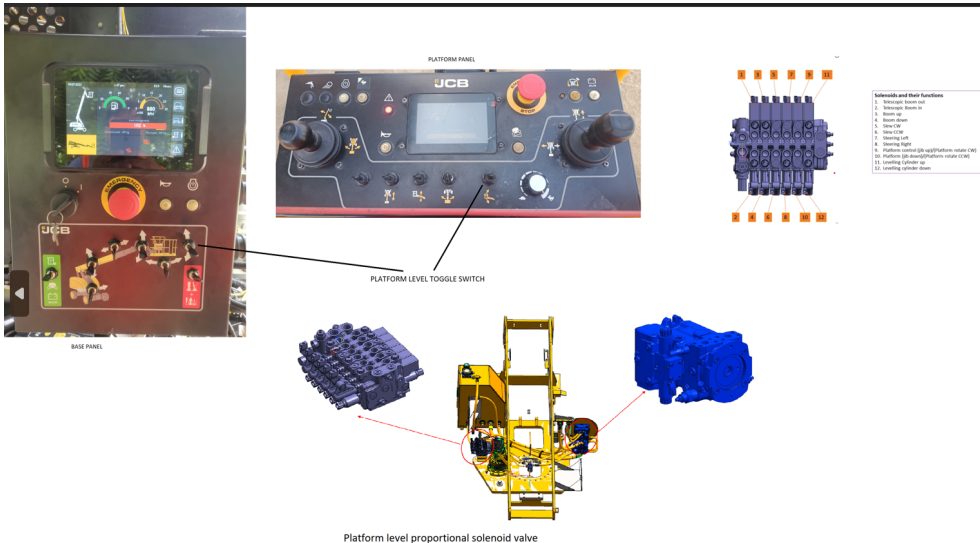
9.1.251 B1396-17

Error Code:	B1396-17
ECU	Bosch Base ECU
Description :	PLATFORM LEVEL RAISE\LOWER PROPORTIONAL LS SC to high
Component :	Platform Level 
Vehicle reaction:	When PLATFORM LEVEL RAISE\LOWER PROPORTIONAL LS SC to high fault is detected: 1. It detect failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. Switch Platform Level o/ps to off. 3. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.

Service Action:	1. Check pin connection (pin 179. on connector 2. Check voltage on wire (pin 179. 3. Machine restart
Other:	N/A



9.1.252 B1397-16

Error Code:	B1397-16
ECU	Bosch Base ECU
Description :	PLATFORM LEVEL RAISE\LOWER PROPORTIONAL LS SC to low
Component :	Platform Level 
Vehicle reaction:	When PLATFORM LEVEL RAISE\LOWER PROPORTIONAL LS SC to low fault is detected: 1. It detect failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection.

	2. Switch Platform Level o/ps to off. 3. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 179. on connector 2. Check voltage on wire (pin 179. 3. Machine restart
Other:	N/A



9.1.253 B1398-13

Error Code:	B1398-13
ECU	Bosch Base ECU
Description :	PLATFORM LEVEL RAISE\LOWER PROPORTIONAL LS OC
Component :	Platform Level
Vehicle reaction:	When PLATFORM LEVEL RAISE\LOWER PROPORTIONAL LS OC fault is detected:

	1. It detect failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. Switch Platform Level o/ps to off. 3. log error code & set fault indicators.
Possible Cause:	1. Open circuit of any conductor. 2. Does not energise.
Service Action:	1. Check pin connection (pin 179. on connector 2. Check voltage on wire (pin 179. 3. Machine restart
Other:	N/A



9.1.254 B1399-17

Error Code:	B1399-17
ECU	Bosch Base ECU
Description :	JIB RAISE\LOWERPLATFORM RIGHT\LEFT PROPORTIONAL HS SC to high
Component :	Jib/Platform Rotate

	The diagram illustrates the JCB control system components. It includes a Base Panel with a digital display and various buttons, a Platform Panel with a joystick and buttons, a JIB Toggle Switch, a Solenoids and their functions block with a list of functions (1-13), and a Jib/Platform proportional solenoid valve. A note indicates 'Connection for switching between lift and platform'.
Vehicle reaction:	When JIB RAISE\LOWERPLATFORM RIGHT\LEFT PROPORTIONAL HS SC to high fault is detected: 1. It detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. It disables Jib\Platform Rotate HS and LS outputs. 3. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 153. on connector 2. Check voltage on wire (pin 153. 3. Check pin connection (pin 177. on connector 4. Check voltage on wire (pin 177. 5. Machine restart
Other:	N/A

	1. It detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. It disables Jib\Platform Rotate HS and LS outputs. 3. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 183. on connector 2. Check voltage on wire (pin 183. 3. Machine restart
Other:	N/A



9.1.258 B1403-16

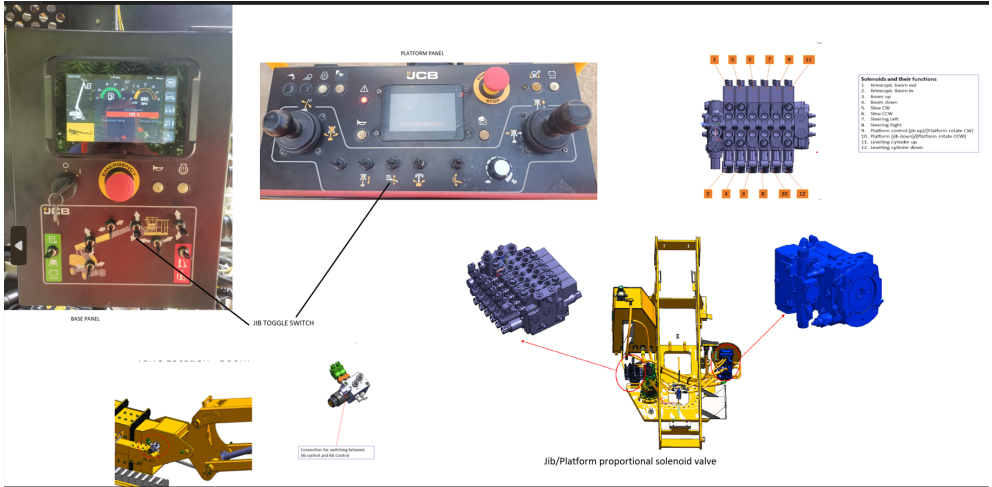
Error Code:	B1403-16
ECU	Bosch Base ECU
Description :	JIB\PLATFORM PROPORTIONAL LS SC to low
Component :	Jib/Platform Rotate

Vehicle reaction:	When JIB\PLATFORM PROPORTIONAL LS SC to low fault is detected: 1. It detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. It disables Jib\Platform Rotate HS and LS outputs. 3. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 183. on connector 2. Check voltage on wire (pin 183. 3. Machine restart
Other:	N/A



9.1.259 B1404-13

Error Code:	B1404-13
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ECU	Bosch Base ECU
Description :	JIB\PLATFORM PROPORTIONAL LS OC
Component :	Jib/Platform Rotate 
Vehicle reaction:	When JIB\PLATFORM PROPORTIONAL LS OC fault is detected: 1. It detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. It disables Jib\Platform Rotate HS and LS outputs. 3. log error code & set fault indicators.
Possible Cause:	1. Open circuit of any conductor. 2. Does not energise.
Service Action:	1. Check pin connection (pin 183. on connector 2. Check voltage on wire (pin 183. 3. Machine restart
Other:	N/A

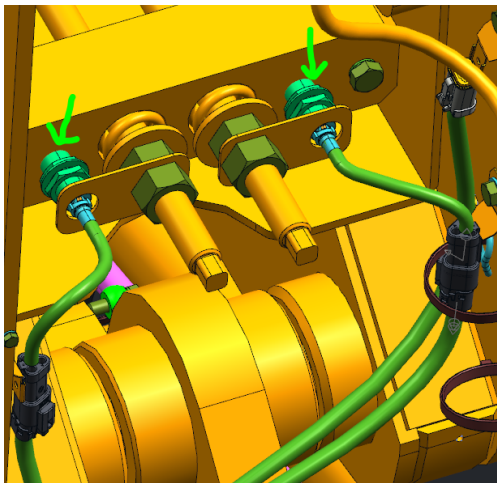
9.1.260 B1405-13

Error Code:	B1405-13
ECU	Bosch Base ECU
Description :	ROPE SWITCH 2 OC & SC to Low
Component :	Rope Switch
Vehicle reaction:	When ROPE SWITCH 2 OC & SC to Low fault is detected: 1. It disables the main boom raise & extend. 2. log error code & set fault indicators
Possible Cause:	1. The open circuit of any conductor. 2. Interruption in power supply. 3. No operation of switch due to mechanical failure.
Service Action:	1. Check pin connection (pin 120. on connector 2. Check voltage on wire (pin 120. 3. Machine restart
Other:	N/A



9.1.261 B1407-17

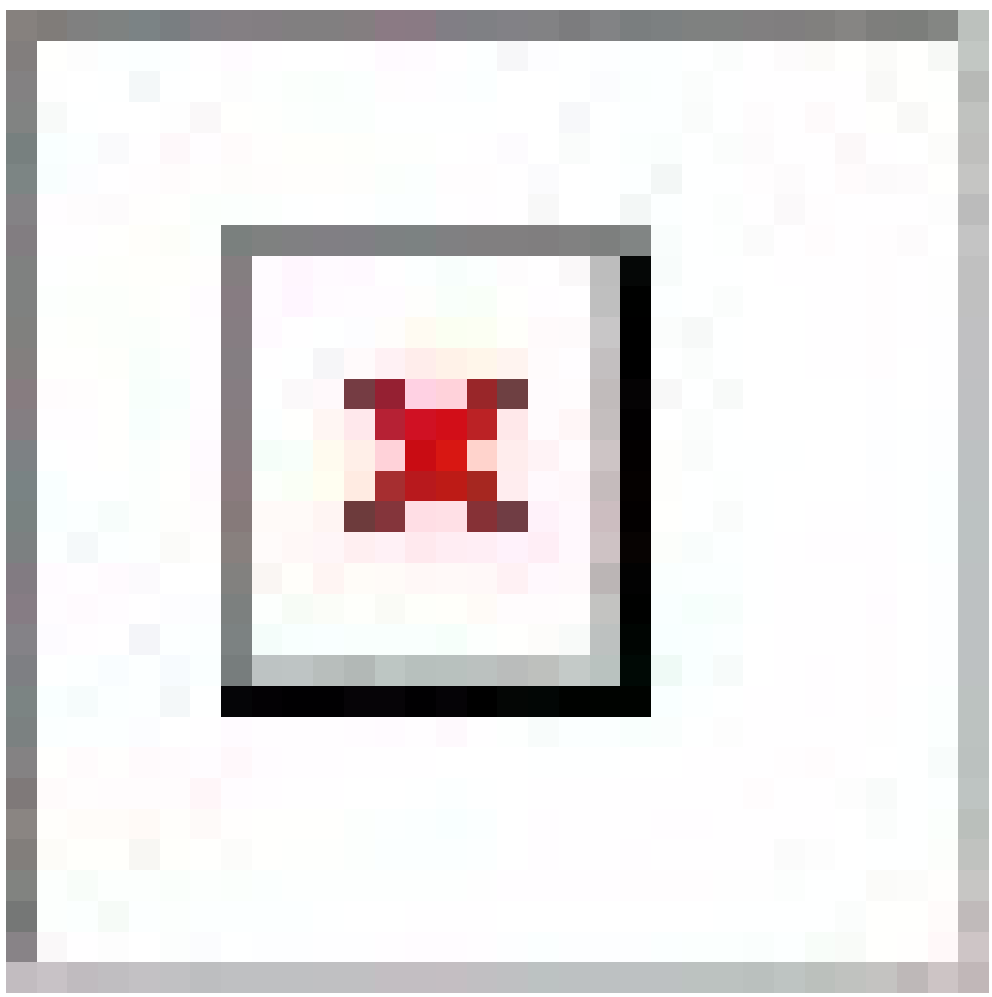
Error Code:	B1407-17
ECU	Bosch Base ECU
Description :	ROPE SWITCH 2 SC to High(12v & 10v)
Component :	Rope Switch

	
Vehicle reaction:	When ROPE SWITCH 2 SC to High(12v & 10v. fault is detected: 1. It disables the main boom raise & extend. 2. log error code & set fault indicators
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 120. on connector 2. Check voltage on wire (pin 120. 3. Machine restart
Other:	N/A



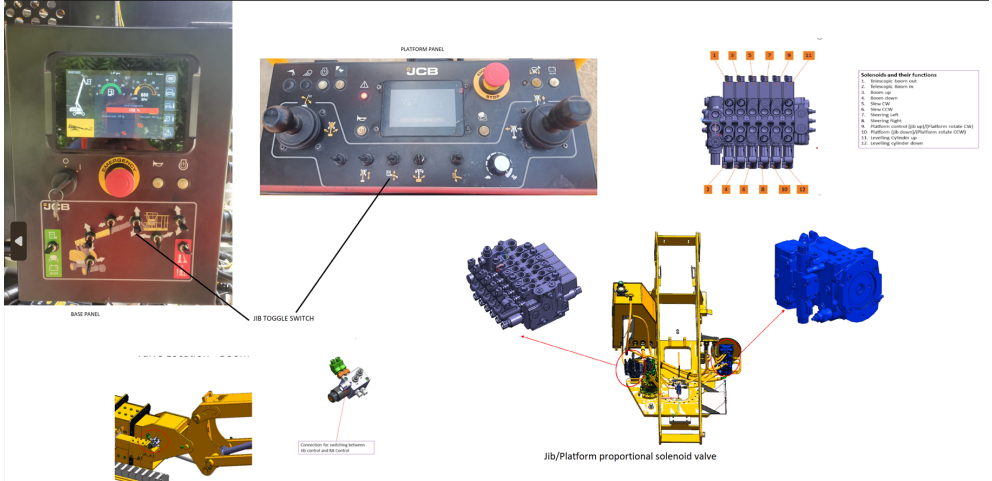
9.1.262 B1409-17

Error Code:	B1409-17
ECU	Bosch Base ECU
Description :	ROPE SWITCH 1 SC to High(12v & 10v)
Component :	Rope Switch

	
Vehicle reaction:	When ROPE SWITCH 1 SC to High(12v & 10v. fault is detetced: 1. It disables the main boom raise & extend. 2. log error code & set fault indicators
Possible Cause:	1. The short circuit between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 119. on connector 2. Check voltage on wire (pin 119. 3. Machine restart
Other:	N/A



9.1.263 B1411-17

Error Code:	B1411-17
ECU	Bosch Platform ECU
Description:	JIB/PLATFORM FLOW LS Sol SC to High
Component:	Jib 
Vehicle reaction:	When JIB/PLATFORM FLOW LS Sol SC to High fault is detected: 1. It detects failure mode for SC to High. 2. It disables platform rotate and allow Jib functions. 3. log error code & set fault indicators. Note: Before Ignition ON, POST Fail (stuck in startup logic for SC to High only. and Generic o/p fault.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 183. on connector 2. Check voltage on wire (pin 183. 3. Machine restart

Other:	N/A
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9.1.265 B1413-13

Error Code:	B1413-13
ECU	Bosch Platform ECU
Description :	JIB/PLATFORM FLOW HS & LS Sol OC
Component :	Jib
Vehicle reaction:	When JIB/PLATFORM FLOW LS Sol SC to Low fault is detected: 1. It detect failure mode for SC to Low. 2. It disables platform rotate and allow Jib functions. 3. log error code & set fault indicators.
Possible Cause:	1. Open circuit of any conductor. 2. Does not energise.
Service Action:	1. Check pin connection (pin 183. on connector 2. Check voltage on wire (pin 183. 3. Machine restart
Other:	N/A



9.1.266 B1414-17

Error Code:	B1414-17
ECU	Bosch Base ECU
Description :	ELECTRIC PUMP OUTPUT SC to High OR OC
Component :	Electric Pump   ELECTRIC PUMP TOGGLE SWITCH
Vehicle reaction:	When ELECTRIC PUMP OUTPUT SC to High OR OC fault Detected: 1. log error code & set fault indicators.
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch. 4. Open circuit of any conductor. 5. Interruption in power supply. 6. No operation of switch due to mechanical failure.
Service Action:	1. Check pin connection (pin 193. on connector 2. Check voltage on wire (pin 193.

	3. No input request
Other:	N/A



9.1.267 B1415-16

Error Code:	B1415-16
ECU	Bosch Base ECU
Description :	ELECTRIC PUMP OUTPUT SC to Low
Component :	Electric Pump   ELECTRIC PUMP TOGGLE SWITCH
Vehicle reaction:	When ELECTRIC PUMP OUTPUT SC to Low fault Detected: 1. log error code & set fault indicators.
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.

Service Action:	1. Check pin connection (pin 193. on connector) 2. Check voltage on wire (pin 193. 3. Machine restart
Other:	N/A



9.1.268 B1416-13

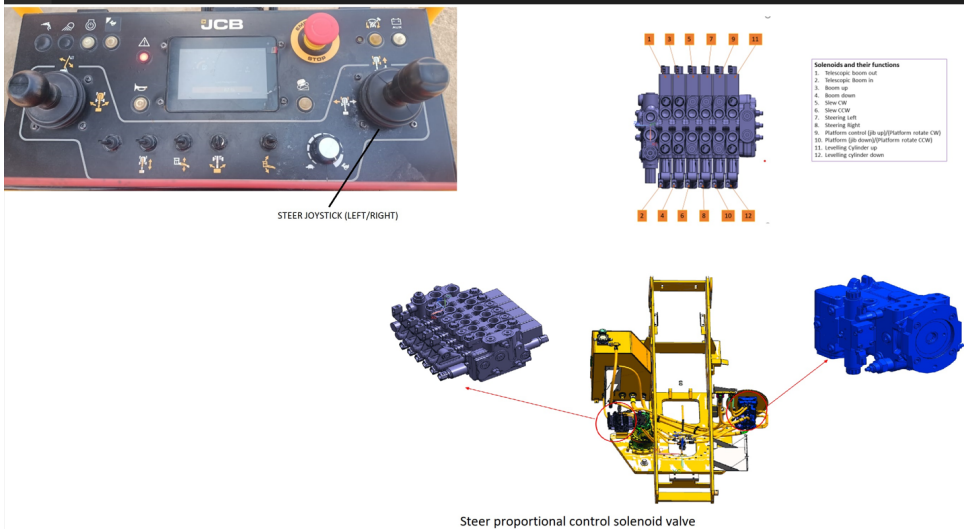
Error Code:	B1416-13
ECU	Bosch Base ECU
Description :	TELE BOOM EXTEND\RETRACT Solenoid Valve Fault
Component :	Main Telescopic Boom   ELECTRIC PUMP TOGGLE SWITCH
Vehicle reaction:	When TELE BOOM EXTEND\RETRACT Solenoid Valve fault is detected: 1. It detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection.

	2. It disables MB EXTEND and MB RETRACT HS & LS outputs. 3. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise
Service Action:	1. Check pin connection (pin 151. on connector 2. Check voltage on wire (pin 151. 3. Check pin connection (pin 175. on connector 4. Check voltage on wire (pin 175. 5. Check pin connection (pin 185. on connector 6. Check voltage on wire (pin 185. 7. Machine restart
Other:	N/A



9.1.269 B1417-13

Error Code:	B1417-13
ECU	Bosch Base ECU
Description :	STEER LEFT\RIGHT Solenoid Valve Fault
Component :	Steer

	 STEER JOYSTICK (LEFT/RIGHT) Steer proportional control solenoid valve Solenoids and their functions 1. Telescope boom out 2. Telescope boom in 3. Boom up 4. Boom down 5. Drive left 6. Drive right 7. Steering left 8. Steering right 9. Platform control (left-right) (Platform rotate CW) 10. Platform (left-down) (Platform rotate CCW) 11. Lifting cylinder up 12. Lifting cylinder down
Vehicle reaction:	STEER LEFT\RIGHT Solenoid Valve Fault is detected: 1. It detects failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. It disables the Steer and Drive outputs. 3. log error code & set fault indicator.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 150. on connector 2. Check voltage on wire (pin 150. 3. Check pin connection (pin 174. on connector 4. Check voltage on wire (pin 174. 5. Check pin connection (pin 180. on connector 6. Check voltage on wire (pin 180. 7. Machine restart
Other:	N/A



9.1.270 B1418-13

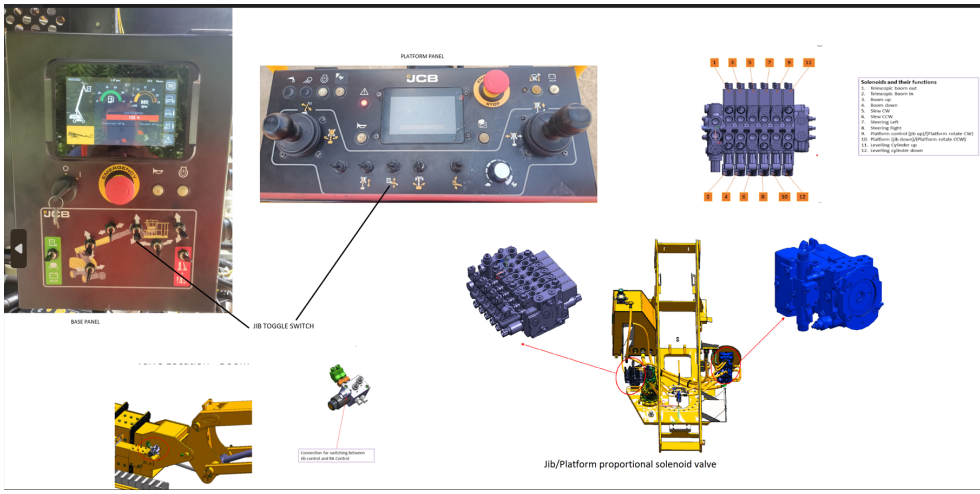
Error Code:	B1418-13
ECU	Bosch Base ECU
Description :	PLATFORM LEVEL RAISE\LOWER Solenoid Valve Fault
Component :	Platform Level
Vehicle reaction:	When PLATFORM LEVEL RAISE\LOWER Solenoid Valve Fault is detected: 1. It detect failure mode with Safout method - The SAFOUT module delivers with the interconnection from high side output channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. Switch Platform Level o/p/s to off. 3. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive

	channels (HS. and a low side output channel (LS. the safety channel for critical applications. Monitoring of the current flow in both connection paths is possible and the error detection is improved with the interconnection. 2. It disables JIB/Platform Rotate HS and LS outputs.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 153. on connector 2. Check voltage on wire (pin 153. 3. Check pin connection (pin 183.connector 4. Check voltage on wire (pin 183. 5. Check pin connection (pin 173.connector 6. Check voltage on wire (pin 173. 7. Machine restart
Other:	N/A



9.1.272 B1420-13

Error Code:	B1420-13
ECU	Bosch Platform ECU
Description :	JIB/PLATFORM FLOW Solenoid Valve Fault
Component :	Jib

	 The diagram illustrates the JCB control system components. It includes a Base Panel with a digital display and various buttons, a Platform Panel with a similar display and controls, and a JIB Toggle Switch. A detailed view of the Solenoid and their functions is provided, listing 13 solenoids and their respective functions. The Jib/Platform proportional solenoid valve is also shown, along with a note about the connection for switching between the control and the valve.
Vehicle reaction:	When JIB/PLATFORM FLOW Solenoid Valve Fault is detected: 1. It disables platform rotate. 2. It allows Jib functions. 3. log error code & set fault indicators.
Possible Cause:	1. The short between any two conductors. 2. The short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. Does not de-energise.
Service Action:	1. Check pin connection (pin 183. on connector 2. Check voltage on wire (pin 183. 3. Check pin connection (pin 153. on connector 4. Check voltage on wire (pin 153. 5. Machine restart
Other:	N/A



9.1.273 B1421-2F

Error Code:	B1421-2F
ECU	Bosch Base ECU

Description :	Low Coolant Level warning
Component :	Coolant Level Sensor
Vehicle reaction:	When Low Coolant Level warning is detected on the machine: 1.log fault code & set fault indicators. 2. It reports Fault code on Display.
Possible Cause:	Header tank coolant volume would be <25% of total coolant volume (<1.3 litres.
Service Action:	1. check the Voltage across the coolant level switch(pin 116. 2. No input request
Other:	N/A



9.1.274 B1212-17

Error Code:	B1212-17
ECU	Bosch Platform ECU
Description :	HIGH TORQUE SPEED BUTTON SC to High
Component :	High Torque Switch

	 TORQUE BUTTON
Vehicle reaction:	When high torque speed button SC to High Fault is detected: 1. It disables high torque input & output. 2. log error code & set fault indicators.
Possible Cause:	1. The Short circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1.Check pin connection (pin 136. on connector 2. Check voltage on wire (pin 136. 3.No input request
Other:	N/A



9.1.275 B1213-16

Error Code:	B1213-16
ECU	Bosch Platform ECU
Description :	HIGH TORQUE SPEED BUTTON SC to Low

Component :	High Torque Switch  TORQUE BUTTON
Vehicle reaction:	When high torque speed button SC to Low Fault is detected: 1. log error code & set fault indicators.
Possible Cause:	1. The Short circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1.Check pin connection (pin 136. on connector 2. Check voltage on wire (pin 136. 3.No input request
Other:	N/A



9.1.276 B1214-24

Error Code:	B1214-24
ECU	Bosch Platform ECU
Description :	HIGH TORQUE SPEED BUTTON Stuck for ≥ 10 seconds

Component :	High Torque Switch  TORQUE BUTTON
Vehicle reaction:	When HIGH TORQUE SPEED BUTTON Stuck for ≥ 10 on the machine: 1. It disables high torque input & output. 2. log error code & set fault indicators.
Possible Cause:	1. The Short circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding . 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1.Check pin connection (pin 136. on connector 2. Check voltage on wire (pin 136. 3.No input request
Other:	N/A



9.1.277 B1209-17

Error Code:	B1209-17
ECU	Bosch Platform ECU

Description :	HIGH ENGINE SPEED BUTTON SC to High
Component :	High Engine Speed Switch  HIGH ENGINE SPEED PUSH BUTTON
Vehicle reaction:	When HIGH ENGINE SPEED BUTTON SC to High fault is detected: 1. It disables high engine speed input & output. 2.log error code & set fault indicators.
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 248. on connector 2. Check voltage on wire (pin 248. 3. No input request
Other:	N/A



9.1.278 B1210-16

Error Code:	B1210-16
ECU	Bosch Platform ECU

Description :	HIGH ENGINE SPEED BUTTON SC to Low
Component :	High Engine Speed Switch  HIGH ENGINE SPEED PUSH BUTTON
Vehicle reaction:	When HIGH ENGINE SPEED BUTTON SC to Low fault is detected: 1. log error code & set fault indicators.
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 248. on connector 2. Check voltage on wire (pin 248. 3. No input request
Other:	N/A

JCB

9.1.279 B1211-24

Error Code:	B1211-24
ECU	Bosch Platform ECU

Description :	HIGH ENGINE SPEED BUTTON Stuck for ≥ 10 seconds
Component :	High Engine Speed Switch  HIGH ENGINE SPEED PUSH BUTTON
Vehicle reaction:	When HIGH ENGINE SPEED BUTTON Stuck for ≥ 10 seconds on the machine: 1. It disables high engine speed input & output. 2. log error code & set fault indicators.
Possible Cause:	1. The Short Circuit between any two conductors. 2. The Short circuit of any conductor to an exposed conductive part or to earth or to the protective bonding. 3. The Short circuit between the three connections of a change-over switch.
Service Action:	1. Check pin connection (pin 248. on connector 2. Check voltage on wire (pin 248. 3. No input request
Other:	N/A



- C -

Components 14

- E -

Engine Fault Codes 14

- F -

Function 86

- L -

Livelink Fault Codes 14

- M -

Machine ECU Fault Codes 14

- S -

Support Files 14

- T -

The diagram below shows the main components that will turn on when the ignition is cycled 'ON' 86

The ignition turns on and off the main power of the machine. 86

The system diagram is assuming the isolator key is fitted and 'ON' 86

- W -

When the key is turned on there should be 3 beeps from the base and platform buzzers 86