

## Alarm siren cannot be programmed

Topic number	LI80.50-P-050603
Version	2
Design group	80.50 Anti-theft alarm (ATA), interior motion sensor/towing sensor
Date	01-04-2011
Validity	Models 163, 164, 168, 169, 170, 171, 245, 203, 209, 211, 215, 219, 220, 230, 245, 251, each with code 551
Reason for change	Validity adapted

### Complaint:

- The alarm siren (national version coding) cannot be commissioned using DAS
- False alarms (siren triggering by itself or communication with alarm siren interrupted)

### Cause:

Bus communication (K-line) between ATA master and alarm siren is disrupted often by transition resistance to ground or positive, e.g. due to water ingress

### Remedy:

#### 1. Power supply

Check power supply of alarm siren. Also pay attention to lines, connectors and ground contacts.

#### 2. Signal line

Use the HMS (universal oscilloscope) to check the signal line between the ATA master and the alarm siren. The "A/C bus (W203)" image can be used as a pass image.

The bus must be active. This can be ensured by actuating the alarm siren via DAS.

Find and rectify the cause of the disrupted communication.

Control unit/fault code		
Control unit	Fault code	Fault text
REAR SAM-Rear signal acquisition and actuation module (SAMH7) (R (251),GL (164),M (164))	9189	Component H3 (Alarm signal horn) has a short circuit to positive. ((ECU_ZGW_DEF_Länderbezogene SA Codierung@USA (C494),ECU_ZGW_DEF_SA: Diebstahlwarnanlage (C551)@vorhanden, ECU_ZGW_DEF_Motor@M113 E50))
ATA-Anti-theft alarm system (EDW2_H) (A (168))	P1699	The alarm has been activated through component ATA alarm signal siren.
REAR SAM-Rear signal acquisition and actuation module (SAMH7) (R (251),GL (164),M (164))	90C7	Communication fault with component H3/1 (Alarm signal siren with additional battery) ((ECU_ZGW_DEF_SA: Diebstahlwarnanlage (C551)@vorhanden,not(ECU_ZGW_DEF_Motor@M113 E50),not(ECU_ZGW_DEF_Länderbezogene SA Codierung@USA (C494))))
REAR SAM-Rear signal acquisition and actuation module (SAMH7) (R (251),GL (164),M (164))	90C7	Communication fault with component H3/1 (Alarm signal siren with additional battery) ((ECU_ZGW_DEF_SA: Diebstahlwarnanlage (C551)@vorhanden,ECU_ZGW_DEF_Motor@M113 E50,

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		not(ECU_ZGW_DEF_Länderbezogene SA Codierung@USA (C494)))
REAR SAM-Rear signal acquisition and actuation module (SAMH7) (R (251),GL (164),M (164))	918A	Component H3 (Alarm signal horn) has a short circuit to ground. ((ECU_ZGW_DEF_Länderbezogene SA Codierung@USA (C494) ,ECU_ZGW_DEF_SA: Diebstahlwarnanlage (C551)@vorhanden, ECU_ZGW_DEF_Motor@M113 E50))
AAM-All Activity Module (AAM2K) (M (163))	B1341	Communication fault with component H3/1 (Alarm signal siren with additional battery)
REAR SAM-Rear signal acquisition and actuation module (SAMH6) (SLK (171))	9078	Communication with component H3/1 (Alarm signal siren with additional battery) is interrupted.
ATA-Anti-theft alarm system (EDW2_H) (A (168))	B1696 (003)	Component ATA alarm signal siren has Open circuit.
ATA-Anti-theft alarm system (EDZ_H) (SLK (170))	B1709	Component H3 (Alarm signal horn) is not fitted or is incorrectly coded or faulty.
ATA-Anti-theft alarm system (EDW2_H) (A (168))	B1699	The alarm has been activated through component ATA alarm signal siren.
REAR SAM-Rear signal acquisition and actuation module (SAMH7) (R (251),GL (164),M (164))	918A	Component H3 (Alarm signal horn) has a short circuit to ground. ((ECU_ZGW_DEF_Länderbezogene SA Codierung@USA (C494) ,ECU_ZGW_DEF_SA: Diebstahlwarnanlage (C551)@vorhanden, not(ECU_ZGW_DEF_Motor@M113 E50)))
REAR SAM-Rear signal acquisition and actuation module (SAMH7) (R (251),GL (164),M (164))	9189	Component H3 (Alarm signal horn) has a short circuit to positive. ((ECU_ZGW_DEF_Länderbezogene SA Codierung@USA (C494) ,ECU_ZGW_DEF_SA: Diebstahlwarnanlage (C551)@vorhanden, not(ECU_ZGW_DEF_Motor@M113 E50)))
ATA-Anti-theft alarm system (EDW) (B (245),A (169))	9012	Fault in communication with component H3/1 (Alarm signal siren with additional battery) or there is an open circuit.
ATA-Anti-theft alarm system (EDW2_H) (A (168))	P1696 (003)	Component ATA alarm signal siren has Open circuit.
ATA-Anti-theft alarm system (EDW2_H) (A (168))	P1696 (002)	Component ATA alarm signal siren has Short circuit to ground.
ATA-Anti-theft alarm system (EDW2_H) (A (168))	B1696 (002)	Component ATA alarm signal siren has Short circuit to ground.
REAR SAM-Rear signal acquisition and actuation module (SAMH4) (CLS (219),E (211))	9078	Communication with component H3 (Alarm signal horn) is interrupted.
ATA-Anti-theft alarm system (EDW) (B (245),A (169))	9011	The data cable to component H3/1 (Alarm signal siren with additional battery) has Short circuit to ground or to positive.
REAR SAM-Rear signal acquisition and actuation module (SAMH2) (CLK (209),C (203))	B1078	Fault in communication with component H3/1 (Alarm signal siren with additional battery) or there is a cable fault.
PSE-Pneumatic system equipment (PSZ_H) (SLK (170))	B1709	Component H3 (Alarm signal horn) is not fitted or is incorrectly coded or faulty. ([FEHLVAR2BIS2])
SAM-FL-Front left signal acquisition and actuation module (SAML) (CL (215),S (220))	B1341	Fault in communication with component H3/1 (Alarm signal siren with additional battery).
Dr-side SAM-Driver signal acquisition and actuation module (SAMF2) (SL (230))	B1341	Fault in communication with component H3 (Alarm signal horn).

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