

## Check Engine Light with multiple control modules exhibiting numerous CAN codes

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Topic number	LI54.18-N-064032
Version	1
Design group	54.18 Cable harnesses
Date	05-10-2016
Validity	Model 906 with OM642 engine
Reason for change	
Reason for block	

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### Complaint:

Check Engine Light with multiple control modules exhibiting numerous CAN codes such as:

N3/35 CDI Control unit - DTCs P104000, P143B00, P172500

N30/4 ESP Control unit - C107600

N10 SAM Control unit - 9090, 9091, 90D8, 90D2, 90D3, 90D5, 90D9, 9094, 9095, 9099

A1 Instrument Cluster - 9110

S98 KLA Air Conditioning - B1701, B1702, B1703

N33/4 PTC heater booster (PTC) - B1021, B1022, B1028, B1029, B1030

N2/14 Supplemental restraint system (SRS) - B11B6, B119C

N69/1 Driver Door (TSG) - B1022

### Cause:

An after market system such could be installed by an upfitter in the vehicle.

Possible CAN connections to inspect:

- 1) Interlock function while mobility upfit with wheelchair lift
  - o CAN module "INTERMOTIVE" connected to I-CAN
- 2) Radio control "AXXESS" from the steering wheel button with aftermarket radio
  - o Upfitter like Airstream, Winnebago and assorted small companies
- 3) Ambulances upfit to achieve keyless-go system
  - o Engine running while the key is removed

The retrofit wiring may have been connected to the interior CAN circuit via the following:

- Connector for the PSM
- Left side interior CAN block
- Spliced into Radio CAN wires

If the control unit fails on the upfitted system this may lead to the interior CAN system becoming inoperative.

Note: There should be no splicing into the vehicle's interior CAN system.

Attachments	
File	Description

# XENTRY TIPS

AXXESS control unit.JPG	AXXESS Control unit
WP_20160505_001.jpg	AXXESS Cable routing
WP_20160505_002.jpg	Cable and AXXESS control unit

## Remedy:

Inspect the vehicle for upfitted device which may be improperly connected to the Interior CAN system and disconnect from the interior CAN system.

Advise the customer to contact the upfitter to have the issue with the affected system corrected.

Potential remedies available to the upfitters.

- 1) PSM software can be used for wheelchair upfit for "Intermotive" lift cases
- 2) Several aftermarket radio manufactures are working with MBUSA and have PSM solution for this upfit
- 3) PSM SCERF function is accepted from most ambulances customers, can simulate a lock-unlock function while engine running

This is not a warrantable repair and should be charged to the upfitter.

## Symptoms

Power generation / Engine management / Indicator lamp / Electronic diesel control / lit

Overall vehicle / Networking / CAN/FlexRay communication / Malfunction

## Attachments

AXXESS control unit.  
JPG:



# XENTRY TIPS

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# XENTRY TIPS

WP\_20160505\_001.jpg:



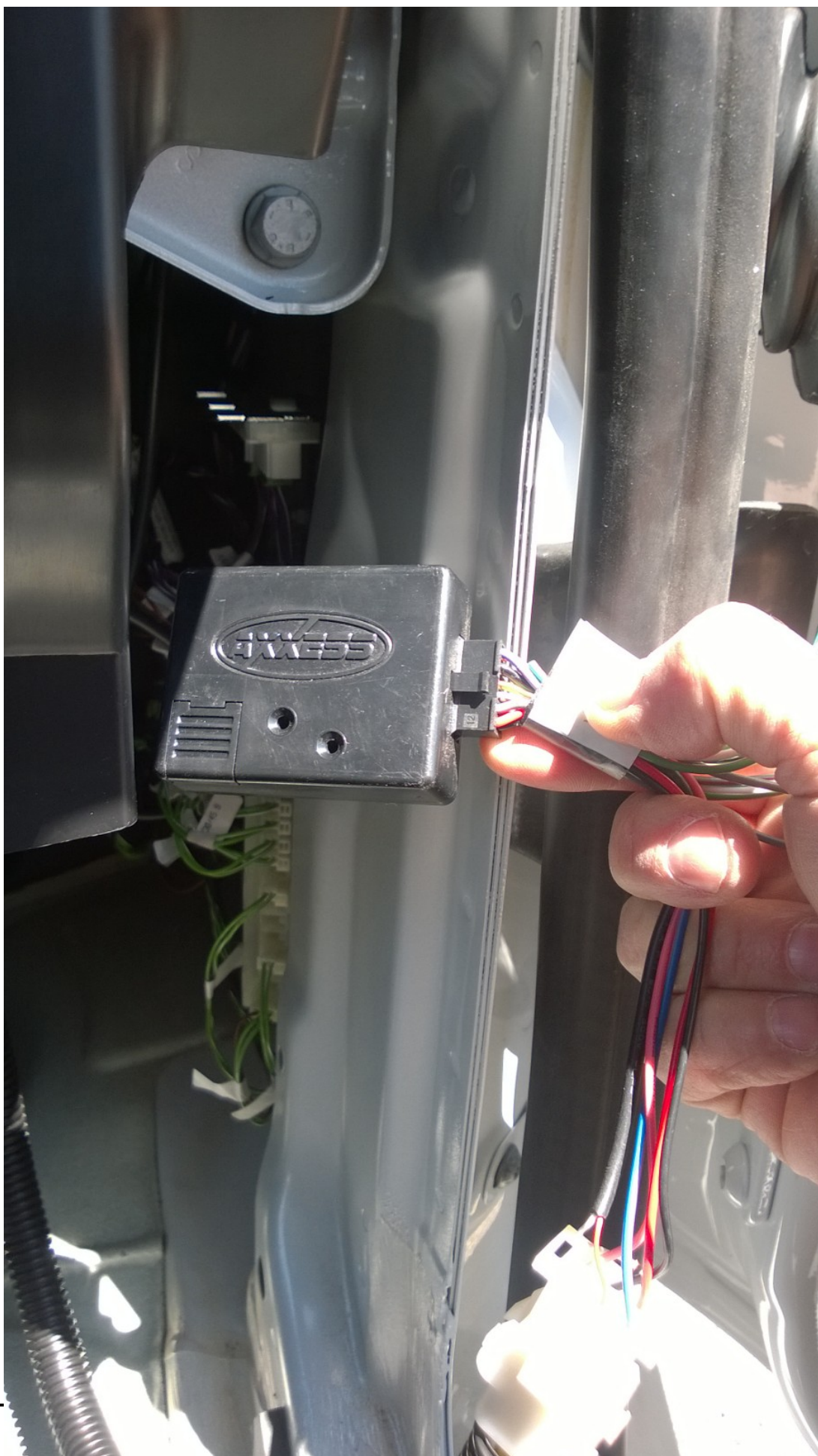
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WP\_20160505\_002.jpg:



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