

Battery drain bus keepawake detected - mbrace control unit causes bus keepawake

Topic number	LI82.95-P-056655
Version	4
Design group	82.95 Emergency call systems
Date	07-23-2013
Validity	All vehicles with option code 348 except model 222
Reason for change	
Reason for block	

Complaint:

Customer experiences low battery conditions, resulting in jump starts, and eventually requiring battery replacement.

Cause:

PASS (mbrace) is programmed to update its Preferred Roaming List (PRL) every 90 days. If the unit is deactivated, the update is not possible.

If a Diagnostic Service (ex: Quicktest) is performed on a vehicle with a deactivated PASS unit, the PASS unit will start attempting to update, even though no network is detected. PASS will keep the CAN Bus awake, and in time will drain the battery.

Preconditions:

1. Must be equipped with PASS
2. IMX software level in mbrace will be 2319028401 (see attachment)
3. Vehicle must be at least 90 days old
4. Mbrace must be deactivated in any of the following scenarios:
 - Customer did not purchase mbrace at point of sale
 - Cancel of mbrace subscription at any time
 - Free trial expires
5. A Diagnostic Service (ex: Quicktest) is performed on a vehicle with a PASS unit with the above preconditions met

Attachments	
File	Designation
IMX Location.jpg	Location of the IMX part number in the quick test

Remedy:

Update the mbrace control unit software. The IMX software in the mbrace control unit (see attachment) should change to either

2319023902

or

2319027002

If Xentry does not specify newer software, please create an SDS User Help Desk case via PTSS, and include the following:

- Event log (initial startup)
- mbrace control unit log

-Initial quick test

Once completed, the event code "B15CE00 Registration with TOC has failed" may be visible. Please disregard this event code.

Symptoms
Communication/information / Communication / Telematics service / TELEAID emergency call system / TELEAID function / Backup battery discharges
Overall vehicle / Power supply / Battery/On-board electrical system / Battery/on-board electrical system indicator lamp / Battery charge indicator/consumer shutoff / Illuminates red
Overall vehicle / Power supply / Battery/On-board electrical system / Battery/on-board electrical system indicator lamp / Battery charge indicator/consumer shutoff / Illuminates white
Overall vehicle / Power supply / Battery/On-board electrical system / Battery function / Battery discharges
Overall vehicle / Power supply / Battery/On-board electrical system / Battery/on-board electrical system display message / Low voltage Switch off consumers
Overall vehicle / Power supply / Battery/On-board electrical system / Battery/on-board electrical system display message / Low voltage Charge battery
Overall vehicle / Power supply / Battery/On-board electrical system / Battery/on-board electrical system display message / Charging

Work units				
Op. no.	Operation text	Time	Damage code	Note
			82876 54	

Validity		
Vehicle	Engine	Transmission
C (204)	*	*
CLS (218)	*	*
E (207)	*	*
E (212)	*	*
G (463)	*	*
GL (166)	*	*
GLK (204)	*	*
M (166)	*	*
SL (231)	*	*
SLK (172)	*	*

Full model designation breakdown		
Vehicle	Engine	Transmission
166.003	651.960	722.908
166.004	651.960	722.908
166.023	642.826	722.903

166.023	642.826	725.031
166.024	642.826	722.903
166.024	642.826	725.031
166.055	276.955	722.906
166.056	276.821	722.904
166.056	276.925	722.904
166.057	276.955	722.906
166.058	276.955	722.906
166.062	276.821	722.904
166.073	278.928	722.909
166.073	278.928	725.031
166.073	278.928	725.032
166.074	157.982	722.905
166.074	157.982	722.931
166.823	642.826	722.903
166.823	642.826	725.031
166.824	642.826	722.903
166.824	642.826	725.031
166.856	276.821	722.904
166.872	278.928	722.909
166.872	278.928	725.031
166.872	278.928	725.032
166.873	278.928	722.909
166.873	278.928	725.031
166.873	278.928	725.032
166.874	157.982	722.905
166.874	157.982	722.931
172.403	651.980	711.670
172.403	651.980	722.908
172.447	271.861	711.653
172.447	271.861	711.654
172.447	271.861	722.997
172.448	271.861	711.655
172.448	271.861	722.997
172.457	276.956	722.906
172.475	152.980	722.909
204.000	651.913	711.653
204.000	651.913	716.656
204.000	651.913	722.694
204.000	651.913	722.996
204.001	651.913	711.653
204.001	651.913	716.656
204.001	651.913	722.694

204.001	651.913	722.996
204.002	651.911	711.653
204.002	651.911	716.656
204.002	651.911	722.646
204.002	651.911	722.908
204.003	651.911	711.670
204.003	651.911	722.646
204.003	651.911	722.908
204.006	646.812	711.655
204.006	646.812	716.608
204.006	646.812	722.699
204.007	646.811	711.655
204.007	646.811	716.608
204.007	646.811	716.655
204.007	646.811	722.699
204.008	646.811	716.657
204.008	646.811	722.640
204.022	642.960	711.670
204.022	642.960	722.902
204.023	642.834	711.670
204.023	642.834	722.903
204.025	642.830	711.670
204.025	642.830	722.902
204.031	274.910	711.655
204.031	274.910	722.995
204.041	271.950	711.656
204.041	271.950	716.607
204.041	271.950	716.635
204.041	271.950	722.695
204.041	271.950	722.997
204.044	271.910	711.655
204.044	271.910	711.656
204.044	271.910	716.635
204.044	271.910	722.695
204.045	271.910	711.655
204.045	271.910	716.607
204.045	271.910	722.695
204.046	271.952	711.656
204.046	271.952	716.607
204.046	271.952	716.635
204.046	271.952	722.695
204.046	271.952	722.997
204.047	271.860	722.618

204.047	271.860	722.997
204.048	271.860	711.653
204.048	271.860	711.655
204.048	271.860	716.607
204.048	271.860	716.612
204.048	271.860	722.696
204.048	271.860	722.997
204.049	271.820	711.653
204.049	271.820	711.655
204.049	271.820	716.607
204.049	271.820	716.612
204.049	271.820	722.696
204.049	271.820	722.997
204.052	272.921	711.656
204.052	272.921	716.636
204.052	272.921	722.998
204.054	272.947	711.654
204.054	272.947	716.671
204.054	272.947	722.999
204.055	276.957	722.906
204.056	272.961	722.906
204.057	276.957	722.906
204.065	272.982	722.906
204.077	156.985	722.907
204.077	156.985	722.930
204.080	276.957	722.960
204.081	272.948	722.964
204.082	651.912	722.965
204.084	651.912	711.653
204.084	651.912	722.965
204.085	272.911	722.963
204.087	272.971	722.960
204.088	276.957	722.960
204.089	642.961	722.962
204.092	642.832	722.962
204.200	651.913	711.653
204.200	651.913	716.656
204.200	651.913	722.694
204.200	651.913	722.996
204.201	651.913	711.653
204.201	651.913	716.656
204.201	651.913	722.694
204.201	651.913	722.996

204.202	651.911	711.653
204.202	651.911	716.656
204.202	651.911	722.646
204.202	651.911	722.908
204.203	651.911	711.670
204.203	651.911	722.646
204.203	651.911	722.908
204.207	646.811	711.655
204.207	646.811	716.608
204.207	646.811	716.655
204.207	646.811	722.699
204.208	646.811	716.657
204.208	646.811	722.640
204.222	642.960	711.670
204.222	642.960	722.902
204.223	642.834	711.670
204.223	642.834	722.903
204.225	642.830	711.670
204.225	642.830	722.902
204.231	274.910	711.655
204.231	274.910	722.995
204.241	271.950	711.656
204.241	271.950	716.635
204.241	271.950	722.695
204.241	271.950	722.997
204.245	271.910	711.655
204.245	271.910	716.607
204.245	271.910	722.695
204.246	271.952	711.656
204.246	271.952	716.635
204.246	271.952	722.695
204.246	271.952	722.997
204.247	271.860	722.618
204.247	271.860	722.997
204.248	271.860	711.653
204.248	271.860	711.655
204.248	271.860	716.607
204.248	271.860	716.612
204.248	271.860	722.696
204.248	271.860	722.997
204.249	271.820	711.653
204.249	271.820	711.655
204.249	271.820	716.607

204.249	271.820	716.612
204.249	271.820	722.696
204.249	271.820	722.997
204.252	272.921	711.656
204.252	272.921	716.636
204.252	272.921	722.998
204.254	272.947	711.654
204.254	272.947	716.671
204.254	272.947	722.999
204.256	272.961	722.906
204.257	276.957	722.906
204.277	156.985	722.907
204.277	156.985	722.930
204.282	651.912	722.965
204.284	651.912	711.653
204.284	651.912	722.965
204.289	642.961	722.962
204.292	642.832	722.962
204.302	651.911	711.653
204.302	651.911	716.656
204.302	651.911	722.646
204.302	651.911	722.908
204.303	651.911	711.670
204.303	651.911	722.646
204.303	651.911	722.908
204.331	274.910	711.655
204.331	274.910	722.995
204.347	271.860	722.618
204.347	271.860	722.997
204.348	271.860	711.655
204.348	271.860	722.997
204.349	271.820	711.655
204.349	271.820	716.607
204.349	271.820	722.997
204.357	276.957	722.906
204.377	156.985	722.907
204.377	156.985	722.930
204.388	276.957	722.960
204.901	651.916	711.653
204.901	651.916	716.658
204.901	651.916	722.908
204.901	651.916	722.996
204.902	651.916	711.653

204.902	651.916	716.658
204.902	651.916	722.908
204.904	651.912	722.965
204.934	274.920	722.995
204.936	274.920	711.653
204.936	274.920	722.995
204.937	274.920	722.968
204.956	272.991	722.906
204.957	276.957	722.906
204.981	272.948	722.964
204.982	651.912	722.965
204.983	642.961	722.962
204.984	651.912	722.965
204.987	272.971	722.960
204.988	276.957	722.960
204.990	276.957	722.960
204.992	642.832	722.962
204.993	642.835	722.966
204.997	651.912	722.965
207.302	651.911	711.653
207.302	651.911	716.656
207.302	651.911	722.646
207.302	651.911	722.908
207.302	651.911	725.011
207.303	651.911	711.670
207.303	651.911	722.646
207.303	651.911	722.908
207.303	651.911	725.011
207.322	642.836	722.902
207.323	642.838	722.903
207.323	642.838	725.011
207.326	642.838	722.903
207.326	642.838	725.011
207.334	274.920	722.995
207.336	274.920	722.995
207.347	271.860	722.618
207.347	271.860	722.997
207.348	271.860	711.655
207.348	271.860	716.607
207.348	271.860	716.612
207.348	271.860	722.696
207.348	271.860	722.997
207.355	276.957	722.906

207.356	272.961	722.906
207.356	272.988	722.906
207.357	272.982	722.906
207.357	272.984	722.906
207.359	276.957	722.906
207.362	276.820	722.904
207.365	276.820	722.904
207.372	273.966	722.904
207.373	278.922	722.909
207.388	276.957	722.960
207.402	651.911	711.653
207.402	651.911	716.656
207.402	651.911	722.646
207.402	651.911	722.908
207.402	651.911	725.011
207.403	651.911	711.670
207.403	651.911	722.646
207.403	651.911	722.908
207.403	651.911	725.011
207.422	642.836	722.902
207.423	642.838	722.903
207.423	642.838	725.011
207.426	642.838	722.903
207.426	642.838	725.011
207.434	274.920	722.995
207.436	274.920	722.995
207.447	271.860	722.618
207.447	271.860	722.997
207.448	271.860	711.655
207.448	271.860	722.696
207.448	271.860	722.997
207.455	276.957	722.906
207.456	272.961	722.906
207.456	272.988	722.906
207.457	272.984	722.906
207.459	276.957	722.906
207.462	276.820	722.904
207.465	276.820	722.904
207.472	273.966	722.904
207.473	278.922	722.909
212.001	651.924	711.653
212.001	651.924	722.646
212.001	651.924	722.908

212.001	651.924	725.011
212.002	651.924	711.653
212.002	651.924	716.656
212.002	651.924	722.646
212.002	651.924	722.908
212.002	651.924	725.011
212.003	651.924	711.670
212.003	651.924	722.646
212.003	651.924	722.908
212.003	651.924	725.011
212.004	651.924	711.670
212.004	651.924	722.646
212.004	651.924	722.908
212.004	651.924	725.011
212.005	651.925	711.653
212.005	651.925	716.656
212.005	651.925	722.694
212.005	651.925	722.996
212.005	651.925	725.011
212.020	642.850	722.902
212.021	642.852	711.670
212.021	642.852	722.903
212.021	642.852	725.011
212.023	642.852	711.670
212.023	642.852	722.903
212.023	642.852	725.011
212.024	642.850	711.670
212.024	642.850	722.902
212.024	642.850	725.011
212.025	642.850	711.670
212.025	642.850	722.902
212.025	642.850	725.011
212.025	642.856	711.670
212.025	642.856	722.902
212.025	642.856	725.011
212.026	642.852	711.670
212.026	642.852	722.903
212.026	642.852	725.011
212.027	642.852	711.670
212.027	642.852	722.903
212.027	642.852	725.011
212.034	274.920	711.655
212.034	274.920	722.995

212.035	274.920	711.655
212.035	274.920	722.995
212.036	274.920	711.655
212.036	274.920	722.995
212.040	274.910	711.655
212.040	274.910	722.995
212.041	271.958	722.695
212.047	271.860	722.618
212.047	271.860	722.997
212.048	271.860	711.655
212.048	271.860	716.612
212.048	271.860	722.696
212.048	271.860	722.997
212.052	272.923	716.636
212.052	272.923	722.998
212.053	272.980	722.906
212.054	272.952	711.654
212.054	272.952	722.999
212.055	276.952	722.906
212.056	272.980	722.906
212.057	272.983	722.906
212.059	276.952	722.906
212.065	276.820	722.904
212.067	276.820	722.961
212.072	273.971	722.904
212.073	278.922	722.909
212.073	278.922	725.011
212.073	278.922	725.032
212.074	157.981	722.931
212.074	157.981	722.965
212.075	157.981	722.931
212.076	157.981	722.971
212.077	156.985	722.930
212.080	276.952	722.960
212.082	651.924	722.965
212.087	272.977	722.960
212.088	276.952	722.960
212.089	642.856	722.962
212.090	273.970	722.961
212.091	278.922	722.967
212.091	278.922	725.021
212.092	157.981	722.971
212.093	642.858	722.966

212.093	642.858	725.021
212.094	642.852	722.966
212.094	642.852	725.021
212.094	642.858	722.966
212.094	642.858	725.021
212.095	276.952	724.206
212.097	651.924	722.965
212.098	651.924	724.208
212.147	271.860	722.618
212.147	271.860	722.997
212.148	271.860	711.655
212.148	271.860	722.696
212.148	271.860	722.997
212.154	272.952	711.654
212.154	272.952	722.999
212.165	276.820	722.904
212.195	276.952	724.206
212.202	651.924	711.653
212.202	651.924	716.656
212.202	651.924	722.646
212.202	651.924	722.908
212.202	651.924	725.011
212.203	651.924	711.670
212.203	651.924	722.646
212.203	651.924	722.908
212.203	651.924	725.011
212.205	651.925	711.653
212.205	651.925	716.656
212.205	651.925	722.694
212.205	651.925	722.996
212.205	651.925	725.011
212.220	642.850	722.902
212.221	642.852	711.670
212.221	642.852	722.903
212.221	642.852	725.011
212.223	642.852	711.670
212.223	642.852	722.903
212.223	642.852	725.011
212.224	642.850	711.670
212.224	642.850	722.902
212.224	642.850	725.011
212.225	642.850	711.670
212.225	642.850	722.902

212.225	642.850	725.011
212.226	642.852	711.670
212.226	642.852	722.903
212.226	642.852	725.011
212.227	642.852	711.670
212.227	642.852	722.903
212.227	642.852	725.011
212.234	274.920	711.655
212.234	274.920	722.995
212.236	274.920	711.655
212.236	274.920	722.995
212.247	271.860	722.618
212.247	271.860	722.997
212.248	271.860	711.655
212.248	271.860	716.607
212.248	271.860	716.612
212.248	271.860	722.696
212.248	271.860	722.997
212.254	272.952	711.654
212.254	272.952	722.999
212.255	276.952	722.906
212.256	272.980	722.906
212.257	272.983	722.906
212.259	276.952	722.906
212.265	276.820	722.904
212.267	276.820	722.961
212.272	273.971	722.904
212.273	278.922	722.909
212.273	278.922	725.011
212.273	278.922	725.032
212.274	157.981	722.931
212.275	157.981	722.931
212.276	157.981	722.971
212.277	156.985	722.930
212.280	276.952	722.960
212.282	651.924	722.965
212.287	272.977	722.960
212.288	276.952	722.960
212.289	642.856	722.962
212.291	278.922	722.967
212.291	278.922	725.021
212.292	157.981	722.971
212.293	642.858	722.966

212.293	642.858	725.021
212.294	642.852	722.966
212.294	642.852	725.021
212.294	642.858	722.966
212.294	642.858	725.021
212.297	651.924	722.965
212.298	651.924	724.208
218.303	651.924	722.906
218.303	651.924	722.908
218.303	651.924	725.011
218.323	642.852	722.903
218.323	642.852	725.011
218.323	642.853	722.903
218.323	642.853	725.011
218.326	642.852	722.903
218.326	642.852	725.011
218.355	276.952	722.906
218.355	276.952	725.011
218.355	276.957	722.906
218.355	276.957	725.011
218.359	276.952	722.906
218.359	276.952	725.011
218.373	278.922	722.909
218.373	278.922	725.011
218.374	157.981	722.931
218.375	157.981	722.931
218.376	157.981	722.971
218.391	278.922	722.967
218.392	157.981	722.971
218.393	642.854	722.966
218.393	642.858	722.966
218.394	642.858	722.966
218.394	642.858	725.041
218.903	651.924	722.906
218.903	651.924	722.908
218.903	651.924	725.011
218.923	642.852	722.903
218.923	642.852	725.011
218.923	642.853	722.903
218.923	642.853	725.011
218.959	276.952	722.906
218.959	276.952	725.011
218.973	278.922	722.909

218.973	278.922	725.011
218.974	157.981	722.931
218.975	157.981	722.931
218.976	157.981	722.971
218.991	278.922	722.967
218.991	278.922	725.041
218.992	157.981	722.971
218.993	642.854	722.966
218.993	642.858	722.966
231.457	276.954	722.906
231.473	278.927	722.909
231.474	157.983	722.931
231.479	279.981	722.932
463.202	273.963	722.904
463.202	273.969	722.904
463.204	102.989	717.439
463.204	102.989	722.396
463.206	113.962	722.630
463.207	103.987	717.439
463.207	103.987	722.397
463.207	103.989	717.439
463.207	103.989	722.397
463.208	104.996	722.372
463.209	112.945	722.610
463.215	102.989	000.000
463.218	103.987	000.000
463.220	102.965	717.439
463.221	102.965	717.439
463.222	273.963	722.904
463.222	273.969	722.904
463.224	102.989	717.439
463.224	102.989	722.396
463.225	102.989	717.439
463.227	103.987	717.439
463.227	103.987	722.397
463.228	103.987	717.439
463.228	103.987	722.382
463.228	103.987	722.397
463.228	117.965	717.439
463.228	117.965	722.382
463.228	117.965	722.397
463.230	104.996	722.372
463.231	104.996	722.372

463.232	112.945	722.610
463.233	112.945	722.610
463.235	102.989	000.000
463.236	273.963	722.904
463.236	273.969	722.904
463.237	273.963	722.904
463.237	273.969	722.904
463.238	103.987	000.000
463.240	113.962	722.630
463.241	113.962	722.630
463.241	113.982	722.630
463.242	273.963	722.904
463.243	113.982	722.630
463.244	112.945	722.610
463.245	112.945	722.610
463.246	113.982	722.630
463.247	113.962	722.630
463.248	113.962	722.630
463.248	113.962	722.901
463.248	113.982	722.630
463.248	113.982	722.901
463.249	113.962	722.630
463.249	113.962	722.901
463.250	112.945	722.610
463.254	113.962	722.630
463.254	113.962	722.901
463.270	113.993	722.630
463.270	113.993	722.645
463.271	113.993	722.630
463.271	113.993	722.645
463.272	157.984	722.905
463.273	157.984	722.905
463.274	279.982	722.932
463.300	603.972	722.398
463.303	642.970	722.902
463.304	602.931	717.439
463.306	642.886	722.902
463.306	642.970	722.902
463.307	603.931	717.439
463.307	603.931	722.399
463.308	606.964	722.611
463.309	628.962	722.638
463.315	602.931	000.000

463.318	603.931	000.000
463.320	603.972	722.398
463.321	603.972	722.398
463.322	612.965	722.637
463.323	612.965	722.637
463.324	602.931	717.439
463.325	602.931	717.439
463.327	603.931	717.439
463.327	603.931	722.399
463.328	603.931	717.439
463.328	603.931	722.399
463.330	606.964	722.611
463.331	606.964	722.611
463.332	628.962	722.638
463.333	628.962	722.638
463.335	602.931	000.000
463.336	642.886	722.902
463.338	603.931	000.000
463.340	642.970	722.902
463.341	642.970	722.902
463.346	642.886	722.902

Attachments

IMX Location.jpg:

mbrace - mbrace (N123/4)			
MB object number for hardware	231 901 22 01	Diagnosis identifier	000102
Hardware version	11/41 00	Boot software version	11/35 00
Control unit variant	PASS_CY12_SOP_BR222	Manufacturer-specific serial number	00DEAAD23625
Supplier	Continental	Preferred Roaming List (PRL) Version	59314.00
Part number of software 'S12'	1724420359	Number	
Part number of software 'NAD'	1724420259	Part number of software 'IMX'	2319028401

Event	Text	Status
B15CE00	Registration with the telematics service (TOC) has failed.	A+S
	Name	First occurrence Last occurrence
	Voltage	12.50V 12.50V
	Frequency counter	---
	Main odometer reading	---
	Number of ignition cycles since the last occurrence of the fault	0.00
	Fault freeze frame data for development	29 00 00 00 00 00 00 00 00 00 00 00
	Temperature	86.00°F 86.00°F

A+S=CURRENT and STORED