

**NUMBER: 390110019.03****MODEL: Karma****DATE: January 16, 2012****MODEL YEAR: 2012****TITLE: 12 Volt Battery Test and/or Replace****PRIORITY:**

Vehicles in Operation

APPLICABILITY:

2012 Karma

MARKET REGION:

U.S., Europe

PURPOSE:

Early vehicles had extended time during transportation. In the interest of customer satisfaction, Fisker Automotive (FA) is requesting that all Karma vehicles referenced on the attached Vehicle Identification Number (VIN) list receive either a new 12 Volt Battery (depending on particular VIN) or test the installed 12 Volt Battery and if the result is "replace", install a new 12 Volt Battery to Fisker specification. This Campaign will describe the test procedure and the necessary coding for warranty reimbursement. The test plan is intended to determine the State of Health (SOH) of the 12 Volt Battery while it is installed in the vehicle without requiring direct access to the 12 Volt Battery. All testing is intended to be performed at standard operating temperatures using the Midtronics MDX series of testers.

PROCESS OVERVIEW:

1. Determine VIN range
2. Test Procedure
3. Test Results

SPECIAL TOOLS REQUIRED:

1. FST9001 – Battery Charging Terminal Adaptor
2. Midtronics MDX Series Tester (or equivalent)

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**NUMBER: 390110019.03****MODEL: Karma****DATE: January 16, 2012****MODEL YEAR: 2012****TITLE: 12 Volt Battery Test and/or Replace****TABLE 1: VINS FOR BATTERY REPLACEMENT** (in numerical order by last 5 digits of VIN)

YH4K10BA6CA000004	YH4K10BA8CA000005	YH4K10BA1CA000007
YH4K10BA5CA000009	YH4K10BA5CA000012	YH4K10BA7CA000013
YH4K10BA9CA000014	YH4K10BA4CA000017	YH4K10BA6CA000021
YH4K10BAXCA000023	YH4K10BA3CA000025	YH4K10BA5CA000026
YH4K10BA7CA000027	YH4K10BA9CA000031	YH4K10BA0CA000032
YH4K10BA2CA000033	YH4K10BA4CA000034	YH4K10BA8CA000036
YH4K10BAXCA000040	YH4K10BA1CA000041	YH4K10BA3CA000042
YH4K10BA5CA000043	YH4K10BA7CA000044	YH4K10BA0CA000046
YH4K10BA4CA000048	YH4K10BA6CA000049	YH4K10BA2CA000050
YH4K10BA6CA000052	YH4K10BAXCA000054	YH4K10BA1CA000055
YH4K10BA3CA000056	YH4K10BA5CA000057	YH4K10BA7CA000058
YH4K10BA9CA000059	YH4K10BA9CA000062	YH4K10BA0CA000063
YH4K10BA4CA000065	YH4K10BA6CA000066	YH4K10BA8CA000067
YH4K10BA1CA000069	YH4K10BA8CA000070	YH4K10BA1CA000072
YH4K10BA3CA000073	YH4K10BA2CA000078	YH4K10BA0CA000080
YH4K10BA2CA000081	YH4K10BA4CA000082	YH4K10BA8CA000084
YH4K10BA1CA000086	YH4K10BA3CA000087	YH4K10BA5CA000088
YH4K10BA7CA000089	YH4K10BA3CA000090	YH4K10BA9CA000093
YH4K10BA0CA000094	YH4K10BA2CA000095	YH4K10BA6CA000097
YH4K10BA8CA000098	YH4K16AA5CA000161	YH4K16AA4CA000183
YH4K16AA8CA000185	YH4K16AAXCA000186	YH4K16AA1CA000187
YH4K16AA3CA000188	YH4K16AA5CA000189	YH4K16AA1CA000190
YH4K16AA5CA000192	YH4K16AA9CA000194	YH4K16AA0CA000195
YH4K16AA2CA000196	YH4K16AA4CA000197	YH4K16AA6CA000198
YH4K16AA8CA000199	YH4K16AA0CA000200	YH4K16AA2CA000201
YH4K16AA4CA000202	YH4K16AA6CA000203	YH4K16AA8CA000204
YH4K16AAXCA000205	YH4K16AA1CA000206	YH4K16AA3CA000207
YH4K16AA5CA000208	YH4K16AA7CA000209	YH4K16AA3CA000210
YH4K16AA5CA000211	YH4K16AA7CA000212	YH4K16AA9CA000213
YH4K16AA0CA000214	YH4K16AA4CA000216	YH4K16AA6CA000217
YH4K16AA8CA000218	YH4K16AAXCA000219	YH4K16AA6CA000220
YH4K16AA8CA000221	YH4K16AA1CA000223	YH4K16AA3CA000224

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TABLE 1: VINS FOR BATTERY REPLACEMENT (continued)

YH4K16AA5CA000225	YH4K16AA7CA000226	YH4K16AA9CA000227
YH4K16AA2CA000232	YH4K14AA5CA000259	YH4K14AA9CA000278
YH4K14AA0CA000279	YH4K14AA7CA000280	YH4K14AA0CA000282
YH4K14AA4CA000284	YH4K14AA6CA000285	YH4K14AA8CA000286
YH4K14AAXCA000287	YH4K14AA1CA000288	YH4K14AA3CA000289
YH4K14AAXCA000290	YH4K14AA1CA000291	YH4K14AA3CA000292
YH4K14AA7CA000294	YH4K14AA9CA000295	YH4K14AA0CA000296
YH4K14AA6CA000299	YH4K14AA2CA000302	YH4K14AA4CA000303
YH4K14AA8CA000305	YH4K14AAXCA000306	YH4K14AA1CA000307
YH4K14AA3CA000308	YH4K14AA5CA000309	YH4K14AA1CA000310
YH4K14AA3CA000311	YH4K14AA5CA000312	YH4K14AA7CA000313
YH4K14AA0CA000315	YH4K14AA2CA000316	YH4K14AA4CA000317
YH4K14AA6CA000318	YH4K14AA8CA000319	YH4K14AA4CA000320
YH4K14AA8CA000322	YH4K14AAXCA000323	YH4K14AA1CA000324
YH4K14AA3CA000325	YH4K14AA9CA000328	YH4K14AA7CA000330
YH4K14AA0CA000332	YH4K14AA2CA000333	YH4K14AA4CA000334
YH4K14AA8CA000336	YH4K14AA3CA000342	YH4K16AA2CA000344
YH4K12AA6CA000369	YH4K12AA6CA000372	YH4K14AA3CA000373
YH4K14AA7CA000375	YH4K14AA4CA000379	YH4K14AA0CA000380
YH4K14AA2CA000381	YH4K14AA4CA000382	YH4K14AA6CA000383
YH4K14AAXCA000385	YH4K14AA1CA000386	YH4K14AA3CA000387
YH4K14AA5CA000388	YH4K14AA7CA000389	

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**NUMBER: 390110019.03****MODEL: Karma****DATE: January 16, 2012****MODEL YEAR: 2012****TITLE: 12 Volt Battery Test and/or Replace****TABLE 2: VINS FOR BATTERY TESTING AND POSSIBLE REPLACEMENT** (in numerical order by last 5 digits of VIN)

YH4K14AA3CA000390	YH4K14AA7CA000392	YH4K14AA0CA000394
YH4K14AA2CA000395	YH4K12AA9CA000396	YH4K12AA0CA000397
YH4K12AA2CA000398	YH4K12AA4CA000399	YH4K12AA7CA000400
YH4K12AA9CA000401	YH4K12AA2CA000403	YH4K12AA4CA000404
YH4K12AA6CA000405	YH4K12AA8CA000406	YH4K12AAXCA000407
YH4K12AA1CA000408	YH4K12AAXCA000410	YH4K12AA1CA000411
YH4K12AA3CA000412	YH4K12AA5CA000413	YH4K12AA0CA000416
YH4K12AA2CA000417	YH4K12AA4CA000418	YH4K12AA6CA000419
YH4K12AA2CA000420	YH4K12AA4CA000421	YH4K14AA1CA000422
YH4K12AA8CA000423	YH4K12AA1CA000425	YH4K12AA3CA000426
YH4K12AA7CA000431	YH4K12AA2CA000434	YH4K14AA3CA000437
YH4K12AA8CA000440	YH4K14AA5CA000441	YH4K14AA0CA000444
YH4K14AA6CA000447	YH4K14AAXCA000449	YH4K14AA8CA000451
YH4K14AAXCA000452	YH4K14AA3CA000454	YH4K12AAXCA000455
YH4K14AA7CA000456	YH4K14AA9CA000457	YH4K14AA0CA000458
YH4K12AA7CA000459	YH4K14AA9CA000460	YH4K14AA2CA000462
YH4K14AA4CA000463	YH4K14AA6CA000464	YH4K14AA8CA000465
YH4K14AAXCA000466	YH4K14AA5CA000469	YH4K14AA3CA000471
YH4K14AA7CA000473	YH4K12AA5CA000475	YH4K14AA6CA000478
YH4K14AA8CA000479	YH4K14AA4CA000480	YH4K14AA6CA000481
YH4K14AA8CA000482	YH4K14AAXCA000483	YH4K14AA1CA000484
YH4K14AA3CA000485	YH4K14AA5CA000486	YH4K14AA7CA000487
YH4K14AA7CA000490	YH4K14AA9CA000491	YH4K14AA4CA000494
YH4K14AA1CA000498	YH4K14AA3CA000499	YH4K14AA6CA000500
YH4K14AA8CA000501	YH4K14AAXCA000502	YH4K14AA1CA000503
YH4K14AA5CA000505	YH4K14AA0CA000508	YH4K14AA0CA000511
YH4K14AA1CA000517	YH4K14AA3CA000518	YH4K14AA5CA000522
YH4K14AA9CA000524	YH4K14AA0CA000525	YH4K14AA2CA000526
YH4K14AA8CA000630	YH4K14AAXCA000631	YH4K14AA9CA000670
YH4K14AA0CA000671	YH4K14AA2CA000672	YH4K14AA3CA000695
YH4K14AA5CA000696		

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Battery Replacement Procedure

If the VIN is prior to YH4K14AA3CA000390 (Table 1) on the preceding pages, please replace the battery following the instruction as listed in the 2012 Karma Service Manual and complete the repair by filing a case on Technical Support System (TSS) and a warranty claim on the warranty system using the codes at the end of this document. If the VIN is YH4K14AA3CA000390 or above, as listed (Table 2), you must carry out a health check prior to replacement and only replace if the test indicates to do so.

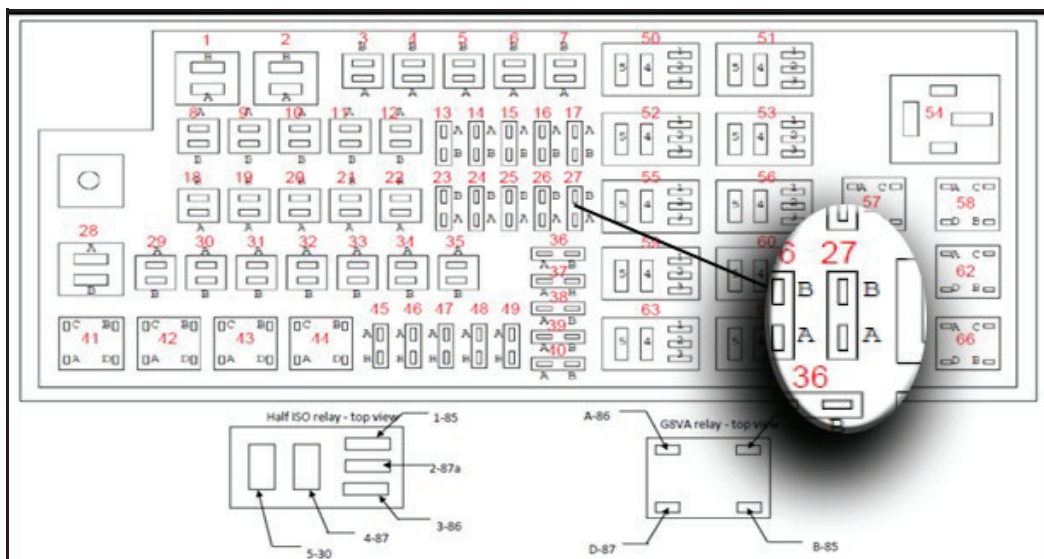
NOTE: The VIN list reads left to right and top to bottom.

Test Procedure

- 1a. Disconnect the vehicle from the High Voltage wall charger.
- 1b. Open hood.

NOTE: Be sure the Start/Stop Button (SSB) is in the OFF position before going to next step.

- 1c. Remove the Solar Panel fuse #27 (25 amp) located in the Power Distribution Center (PDC).



- 1d. Close all doors.

- 1e. Using a Midtronics MDX series tester, charge the 12 Volt Battery prior to test - Verify the vehicle's 12 Volt Battery is between 12.5Vdc and no more than 12.9Vdc before proceeding.

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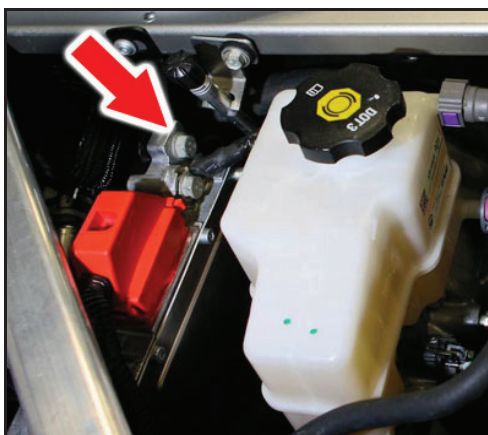
MODEL YEAR: 2012

TITLE: 12 Volt Battery Test and/or Replace

1f. If the Battery is not at least 12.2 volts, connect the positive lead of the battery charger to the B+ positive post at the PDC with Fisker Special Tool **FST9001 – Battery Charging Terminal Adaptor** (to be used for all electrical system testing and charging). Connect the – Negative lead to the Accessory Power Module (APM) ground terminal.



FST9001 - Battery Charging Terminal Adaptor (red arrow) installed on the B+ post in the PDC.



Negative chassis ground (red arrow) location on Accessory Power Module.

1g. After charging, allow the battery to stand for ½ hour prior to the test. Do not close the hood or open the doors during this test to allow the vehicle to enter “sleep” mode. This condition is required until completion of the test.

NOTE: The test sequence and parameters are intended for the Midtronics MDX series of testers. Fisker requires a printout of the test results attached to the repair order. The MDX series of testers have versions with integrated printers. Options displayed will vary by model.

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1h. Make a record of the test conditions prior to the start of the test. This data shall include the time since the vehicle was last operated or charged, the ambient temperature, and any other significant information including if the battery has been allowed to experience a deep discharge or overcharging condition.

1i. Press and hold Power Button on the device for one second.

1j. Once the self-test has demonstrated that the display is fully functional, press the "Enter" button to display the setup menus entry screen.

- For Battery Location, select "out of vehicle"

- For Application, select "Automotive"

- For Post Type, select "Top Post"

- For Battery Type, select "AGM Flat Plate"

- For Battery Standard, select "CCA"

- For CCA, select "305"

- During the test, if the meter senses a marginal battery, it will request the ambient temperature be entered, whether it be above or below 32°F (select temperature range applicable to the current location of battery).

1k. Upon completion of the test, record the indicated State of Health (SOH);

- "Good Battery"

- "Good – Recharge"

- "Charge & Retest"

- "Replace Battery"

In addition, record the battery resistance and the measured voltage.

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Test Results

- If the test results in a "Good Battery" reading, please file a case on Fisker's TSS and a warranty claim on the warranty system only using the code [90-01-01-07 – Campaign 39011019 / Test](#).
- If the test results in a "Good – Recharge" reading, please recharge the battery and file a case on Fisker's TSS and a warranty claim on the warranty system only using the code [90-01-01-07 – Campaign 39011019 / Test](#).
- If the test results in a "Charge & Retest" reading, please prepare the vehicle as described previously in this document and retest.
- If the test results in a "Replace Battery" reading, please replace the battery in accordance with the 2012 Karma Service Manual and file a case on TSS and a warranty claim on the warranty system using the codes ["90-01-01-07 – Campaign 39011019 / Test"](#) and code ["90-01-05-07 – Campaign 39011019 / Replace Battery"](#).

NOTE: *Before installing the new battery, record the serial number of the replacement 12 Volt Battery (being installed) onto the Repair Order and on the warranty claim form (in the comments section).*

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PART NUMBER	DESCRIPTION
C131194101000	12 Volt Battery (sourced locally)

SHOP SUPPLIES:

DESCRIPTION
N/A

SPECIAL TOOLS:

DESCRIPTION
FST9001 – Battery Charging Terminal Adaptor
Midtronics MDX Series Tester (or equivalent)

LABOR CODES:

CODE	DESCRIPTION	TIME	DEFECT CODE
90-01-05-07	Campaign 390110019 / Replace Battery	0.8	90-01-05-98
90-01-01-07	Campaign 390110019 / Test	0.3	90-01-05-98

SUBLET:

CODE	DESCRIPTION	AMOUNT
BAT-H6A	Interstate Battery (U.S. Only)	\$250
BAT-E39	Varta Battery (Europe Only)	€250

CAUSAL PART:

PART NUMBER	DESCRIPTION
C131194101000	12 Volt Battery

WARRANTY DISPOSITION:

Vehicles with a valid warranty

CONTACT:

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