Mechatronics Change Request Form

Request Information:

Requester: D.G. Con/IPO/Lin  
Change Owner: Eduardo Rodriguez Pequeño  
CO Phone:  
Request Date: 1/15/06

Change Request Title: New PCB design and Catera Spring/Plunger for production in Delta Ignition Sw

Customer: GM  
Program, Product Type & Model Year: GMX337, Delta Ignition Sw 2007  
Manufacturing Sites Affected: Concordia

What is the impact of this change?
- Process
- Purchased Components
- Final Product
- In-House Fab Components

Change Driven by:
- Program
- Customer
- D-MS
- Supplier

Change Category:
- Warranty
- Cost Savings
- Product Design
- Process/Quality

Change Reason: New PCB has via enlarge and via holes removed from traces. Catera Spring/Plunger is a Customer request to be in specification according the GM spec for the torque forces.

Change Flow:
- Fast Track
- Production

Risk Assessment:
- Low
- Med
- High

Change Type:
- Documentation
- Running
- Mandatory

Request Type:
- Experimental
- Permanent
- Advanced

Program Phase:
- Program Launch
- Concept Direction
- Concept Approval
- Final Approval

Technical Analysis:
- Theoretical Analysis
- DOE
- Spec. Review
- Drawings Review
- Prod. Validation
- DFA
- Dim. Studies
- 3D Analysis
- DFMEA Review
- Special Testing

Change Verification (Special Testing) Summary:

* 3 life of durability perform without problems
* Torque and angle test perform for forces and displacements of make/brakes.

MINIMUM REQUIRED NOTIFICATION:

<table>
<thead>
<tr>
<th>Function</th>
<th>Notified</th>
<th>Responded</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change Owner</td>
<td></td>
<td></td>
<td>Eduardo Rodriguez</td>
</tr>
<tr>
<td>Purchasing</td>
<td></td>
<td></td>
<td>Carlos Lara</td>
</tr>
<tr>
<td>SQA:</td>
<td></td>
<td></td>
<td>Marco Lamas</td>
</tr>
<tr>
<td>PC&amp;L - Procurement</td>
<td></td>
<td></td>
<td>Aldo Gonzalez</td>
</tr>
<tr>
<td>PC&amp;L - Cust Service</td>
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<td></td>
<td>D. Cardenas/Bararella</td>
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<tr>
<td>PC&amp;L - Planning</td>
<td></td>
<td></td>
<td>Israel Leon</td>
</tr>
<tr>
<td>Manufacturing Eng.</td>
<td></td>
<td></td>
<td>Jorge Montesdeoca</td>
</tr>
<tr>
<td>Process Engineer</td>
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<td></td>
<td>Jorge Montesdeoca</td>
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<tr>
<td>Quality Engineer</td>
<td></td>
<td></td>
<td>Jose Luis Rivera</td>
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<tr>
<td>Industrial Engineer</td>
<td></td>
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<td>Florian Castellanos</td>
</tr>
</tbody>
</table>

NOTIFICATION TO THESE POSITIONS UP TO CIB DECISION:

<table>
<thead>
<tr>
<th>Function</th>
<th>Notified</th>
<th>Responded</th>
<th>Name</th>
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<tbody>
<tr>
<td>Production Line Supervisor</td>
<td></td>
<td></td>
<td>Carlos Zarate</td>
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<tr>
<td>Software Engineer</td>
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<td></td>
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<tr>
<td>Systems Engineer</td>
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<tr>
<td>Component Engineer</td>
<td></td>
<td></td>
<td>Aldo Calvillo/Luis Delgado</td>
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<tr>
<td>Validation Engineer</td>
<td></td>
<td></td>
<td>Larry Allen</td>
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<tr>
<td>Sales</td>
<td></td>
<td></td>
<td>Gabriel Ayala</td>
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<tr>
<td>Finance</td>
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<td></td>
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<tr>
<td>Test Engineer</td>
<td></td>
<td></td>
<td>Edger Zambrano</td>
</tr>
<tr>
<td>Tool Engineer</td>
<td></td>
<td></td>
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<tr>
<td>ECAD</td>
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<td>N/A</td>
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<tr>
<td>MCAD</td>
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<tr>
<td>Other:</td>
<td></td>
<td></td>
<td>Gerardo Cueva</td>
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</table>

Note: Minimum required, but not limited to this.

Note: Follow next steps to find Condura Contact List to verify CIB names.
(Delphi Mechatronics Systems- SharePoint Home / Condura Engineering Document Control / Cond Contact List for Engineering Changes)

Form No: D-MSNAW3,8F1 (Rev. 3) Change Request Form
Mechatronics Change Request Form

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Financial Feasibility Review

Previous to fill out this section, please type Cost, and leadtimes into Checklist/IAF format.
Once leadtimes have been received, target dates can be set up in all required tasks into Checklist/IAF format also.

<table>
<thead>
<tr>
<th>Investment $</th>
<th>Supplier%</th>
<th>Customer%</th>
<th>Delphi%</th>
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<tbody>
<tr>
<td>$240</td>
<td>0%</td>
<td>0%</td>
<td>100%</td>
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<tr>
<td>TOTAL</td>
<td></td>
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<tr>
<td>Hrs. Qty</td>
<td>Hrs. Cost$</td>
<td>Paid By:</td>
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<tr>
<td>210</td>
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<td>Engineering Hours</td>
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Total Change Lead Time: 24 wks
Planned Obsolescence $ 5,000

Change Request Form:

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**Mechantronics Change Notice Form**

**Page 1**

**Requestor:** G. J. Comiga Li  
**Change Owner:** Eduardo Rodriguez Pequeño  
**CO Phone:**  
**Request Date:** 1/15/06

**Change Title:** New PCB design and Catera Spring/Plunger for production in Delta Ignition Sw

**Customer:** GM

**Program, Part Type & Model Year:** GMS335, Delta Ignition Sw 2007

**Where Used P/N**  
<table>
<thead>
<tr>
<th>Affected Doc Description</th>
<th>Type</th>
<th>Current Doc</th>
<th>Rev</th>
<th>Ver</th>
<th>Disp</th>
<th>Actions</th>
<th>Disp</th>
<th>New Document</th>
<th>Rev</th>
<th>Ver</th>
<th>Doc. Owner</th>
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</thead>
<tbody>
<tr>
<td>741-76307</td>
<td>Assy Ignition Sw</td>
<td>DR</td>
<td>741-76307</td>
<td>B</td>
<td>1</td>
<td>P</td>
<td>R</td>
<td>P</td>
<td>741-76307</td>
<td>C</td>
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<tr>
<td>741-76307</td>
<td>Part List Ignition Sw</td>
<td>PL</td>
<td>pl-741-76307</td>
<td>B</td>
<td>1</td>
<td>P</td>
<td>R</td>
<td>P</td>
<td>pl-741-76307</td>
<td>C</td>
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<tr>
<td>741-76307</td>
<td>Dfnea Ignition Sw</td>
<td>DF</td>
<td>df-741-76307</td>
<td>C</td>
<td>1</td>
<td>P</td>
<td>R</td>
<td>P</td>
<td>df-741-76307</td>
<td>D</td>
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</tbody>
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**Obsolete P/N:**  
- Detent Spring Plunger | DR | 741-75316 | A | 1 | P | R | O | 741-75316 |
- Assy Base-PCB | DR | 741-79845-T | B | 1 | P | R | O | 741-79845-T |
- Assy PCB | DR | 741-79846-T | A | 1 | P | R | O | 741-79846-T |
- Assy PCB in process | DR | 741-79847 | A | 1 | P | R | O | 741-79847 |
- Printed Circuit Board | DR | 12962193 | 2 | 1 | P | R | O | 12962193 |
- Assy Ignition Sw | DR | 741-79896 | A | 1 | P | R | O | 741-79896 |
- Part List Ignition Sw | PL | pl-741-79896 | A | 1 | P | R | O | pl-741-79896 |
- Dfnea Ignition Sw | DF | df-741-79896 | A | 1 | P | R | O | df-741-79896 |

**Data doc support**  
- DS

**Validation Test was successfully completed?**  
- Yes  
- No  
- N/A

**Customer Approval**  
- Yes  
- No  
- N/A

**Validation Ref. Number:** O925-177

**Customer Approval Ref. No.:** See 57128dat for GMS465

**CIL's Name:** Alicia Salazar
- Signature:

**CAL's Name:** Paul Verdmann
- Signature:

**Program Mgr Name:** Jesus Chavez
- Signature:

**CIL Identified:** Yes  
- No

**CN Number:** 57128

**Release Date:** 7/27/06

**D.C. Name & Signature:** Jose Luis Alpuerto

**Form No:** D-MSNAW3.8F1 (Rev. 3) Change Notice Form

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