This is the information requested last meeting, a brief description of what is changing in the New PCB. Dentent plunger is implemented to increase torque forces to be within specification.

Regarding the sooner implementation:
-Mechatronics will receive material for production on 6/28. Mechatronics can not implement sooner.

<< File: Top Focus - New PCB and Detent plunger - GM.ppt >>

Friday June 2, 2006 at 14:00 hrs central time. The meet me line number is above.

ISSUES TO REVIEW:

A) Time line for PCB implementation. Status.
B) General comments
Problem description
- Switch presents Contact Bounces & contact permanent deformation
- Customer rejects switches. Functional Problem when car starts

• Impact : Expenses that Mechatronic paid
  - 9% fall out
  - Switches scraped = $135k
  - Premium freight = $25k
  - Mfg Overtime = $25k

• Proposed actions from Product Engineering
  - Change PCB design to remove via holes from contact traces.
  - Enlarge PCB vias to avoid contactors being in via limits.
  - Detent plunger to increase torque force to be within spec.

• Current status for PCB
  - 1.-Validation for Torque & Angle for timing corrections ~ DONE
  - 2.-GM RDE approve GM3660 ~ DONE
  - 3.- Run 350 Switches for PTR in Mechatronics ~ DONE
  - 4.- PTR samples approval with customer and tiers ~ 6/15/06
  - 5.- Mechatronics receive material for production ~ 6/26/06
  - 6.-SOP @ Condura for new PCB & Spring/Plunger ~ 6/30/06

• Comments
  - Mechatronics can not improve the 6/30 base on manufacturing and procurement (PC&L) feedback. Mechatronics will receive material on 6/26.