

**PE03-044**  
**FORD**  
**5/13/2005**  
**APPENDIX I**  
**BOOK 16 OF 28**  
**PART 3 OF 4**

FD-34 (Rev. 4-15-64)

ELECTRICAL PART

**2001 P131/U137 Adjustable Pedal Technical Design Review  
(TDR)**

*Tech Design Review*

Items to be Presented	Material Description	OPD System TDR Status
1	Program Direction Letter (PD L), Ask Mark Zolna for P131 and Bill Kelley for U137	Offered with Auto Trans. 26-30% P131 100% U137 Job1 date: 2/2001
2	Sub-system Workplan	Teleflex to prepare with test plan and support plan for J1
3	FSS SCW(Quality and Reliability Guideline for 10years/150K durability) Supplier will fully implement a Campaign Prevention process to ensure no need for Campaigns, Retails, or "year sales"	Required from Teleflex
4	EE Target Weight and Status(CMKT, Technical, etc) for more info go to the following web site: <a href="http://www.fps.ford.com/fps_news_center/fatal/fcb97_3.html">http://www.fps.ford.com/fps_news_center/fatal/fcb97_3.html</a>	Required from Sub-System engineers to see if it meets cost weight & R1000 target
5	EE Sub-System DVP&R If a DVP&R is carry over from a different program, please update the document to reflect the 2001 P131 and U137 requirements <a href="http://www.ese.ford.com/~seioica/main/">http://www.ese.ford.com/~seioica/main/</a>	Was received from wiring and Teleflex.
6	EE Sub-System FMEA If a FMEA is carry over from a different program, please update the document to reflect the 2001 P131 and U137 requirements	Was received from Teleflex
7	SDS Summary All SDS requirements can be found at : <a href="http://www.dls.ford.com/edutary">http://www.dls.ford.com/edutary</a> EDS SDS specialist Roger Reel	Teleflex: To provide SDS compliance status. Wiring: Is designed to meet SDS 7.0. There is a new SDS for adj. Pedal to operate in Park only position. However, there is not an available post on DTRLS with park signal only. That's why in 2001, the adj. Pedal will work in all PRNDL positions.
8	Packaging study	WGs completed in 10/99 No known issues. Will be verified in the POC back and also @ KIP.
9	EE Sub-System and components (CD)Design Transmittal) with voltage and current curves	Was received from Teleflex and physical schematics were generated by AFL from Teleflex transmittal.
10	Physical Schematics: Please refer to the following web sites for these schematics: <a href="http://www.ese.ford.com/01_p131/U137/">http://www.ese.ford.com/01_p131/U137/</a> and <a href="http://www.ese.ford.com/01_p131/U137/">http://www.ese.ford.com/01_p131/U137/</a> . The schematics can be also found @ <a href="http://www.ese.ford.com">http://www.ese.ford.com</a> under TVC and Superdry/U137 2001 schematics	Teleflex to verify the schematics.
11	CAE Plans, Analysis and Results : Applicable for the break path circuit analysis, shared circuit analysis, short circuit test, load survey etc. Ex. for a module which generate signal (example: ABS VSS) which may be used for several users. Therefore, a shared circuit analysis can be done. CAE can be used for also for wiring applications(ex. Voltage drops etc.)	If you wish to have a CAE analysis done, please contact Mad Lataefa

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Date Revised: 8/23/2000  
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## 2001 P131/U137 Adjustable Pedal Technical Design Review (TDR)

Item	Material Description	OPD Systems TDR Status
12	Open to Go Review	Sub-system Engineers and AFL are required to review open to go with George Roberts (Pro-Prod)
13	WERS Release Status-Open Concerns Need to bring resolution to the TDR if there are any open concerns for your sub-system. Wiring CR C32771111	Wiring CR will be released by end of August '00. Viscon is now looking into adding a locking feature to the bezel. A decision is needed from Viscon no later than next Tuesday (8/29) and will release wiring after that. This locking feature is a must to show connector when option not available. Wiring has 10 weeks lead time to PSW. Therefore, by releasing wiring end of aug. will not jeopardize timing (will support the functional trail on spec. with PSW if wiring projected per end Nov. 2000).
14	Plant EE Assembly Illustrations Wiring and component illustrations need to be finalized and to be given to the Vehicle Operation Rep. (Jeff Spencer, Doug Hand)	Required from AFL and component engineers to provide illustrations to V.O. rep. (Doug Hand) to prepare process sheets.
15	Diagnostics/EOL	If EOL is affected, please call Prayash Patel.
16	VO and Engineering meeting	Takes Place every Wednesday @ 10:30am, coordinated by Lisa Pal/makua
17	Owners/Service/EVTM Development Plan and Status: Kevin Olinity(service), Dweese and EVTIM (Karen Foster)	Owners & Service-Telex EVTIM- AFL
18	Risk Assessment(Major/Minor, No Risk) For Major and Minor risks, please provide a summary sheet to the TDR	Required for wiring and component engineers to provide status
19	Service parts- Please verify when the new parts are needed for service	Please verify with John Kulis (FCSO ANALYST)
20	Recommendation- Please let us know if anything was missing in the TDR and needed to support Design and release and not listed above	Required from all

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PE83-044-R 4678

**2001 P131/U137 Adjustable Pedal Technical Design Review  
(TDR)**

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3	FSS SOM(Quality and Reliability Guidelines for 10years/150K durability) Supplier will fully implement a Campaign Prevention process to ensure no road for Campaigns, Recalls, or "near misses"	Required from Teleflex
4	EE Target Setting and Status(CWOT, Technical, etc) for more info go to the following web site: <a href="http://www.fps.ford.com/fps_news_center/brul/feb97_1.html">http://www.fps.ford.com/fps_news_center/brul/feb97_1.html</a>	Required from Sub-System engineers to see if it meets cost weight & R1900 target
5	EE Sub-System DVP&R If a DVP&R is carry over from a different program, please update the document to reflect the 2001 P131 and U137 requirements <a href="http://www.cse.ford.com/~estonica/majp/">http://www.cse.ford.com/~estonica/majp/</a>	Was received from wiring and Teleflex.
6	EE Sub-System FMEA If a FMEA is carry over from a different program, please update the document to reflect the 2001 P131 and U137 requirements	Was received from Teleflex.
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10	Physical Schematics: Please refer to the following web sites for frame schematics: <a href="http://www.cse.ford.com/ST_01220017">http://www.cse.ford.com/ST_01220017</a> and <a href="http://www.cse.ford.com/01_01210017">http://www.cse.ford.com/01_01210017</a> The schematics can be also found @ <a href="http://www.cse.ford.com/wire/TVCandSupport/U1372001_schematics">http://www.cse.ford.com/wire/TVCandSupport/U1372001_schematics</a>	Teleflex: to verify the schematics.
11	CAE Plans, Analysis and Results: Applicable for the most path circuit analysis, stirred circuit analysis, short circuit test, load survey etc. Ex. for a module which generate signal (example: ABS VSS) which may be used for several years. Therefore, a stirred circuit analysis can be done. CAE can be used for also for wiring applications (ex. Voltage drops etc.)	If you wish to have a CAE analysis done, please contact Mark Lohelle

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**2001 P131/U137 Adjustable Pedal Technical Design Review  
(TDR)**

Item	Material Description	O/PD System/ TDR Status
12	Open to Go Review	Sub-system Engineers and AFL are required to review open to go with George Roberts (Pre-Prod.)
13	WERS Release Status-Open Comments Need to bring resolution to the TDR if there are any open concerns for your sub-system. Wiring CR C32771117	Wiring CR will be released by end of August '00. Vision is now looking into adding a locking feature to the bezel. A decision is needed from Vision no later than Tuesday (8/29) and will release wiring after that. This locking feature is a must to slow connector wires option not available. Wiring has 10 weeks lead time to PSW. Therefore, by releasing wiring and of aug. will not jeopardize wiring (will support the functional lead on spec. with PSW'd wiring. projected gas mid. Nov., 2000).
14	Plant EE Assembly Instructions Wiring and component illustrations need to be finalized and to be given to the Vehicle Operation Rep. (Jeff Spencer, Doug Hunt)	Required from AFL and component engineers to provide illustrations to V.O. rep.(Doug Hunt) to prepare process sheets.
15	Diagnostics/EOL	If EOL is affected, please call Prayash Patel.
16	VO and Engineering meeting	Takes Place every Wednesday @ 10:30am, coordinated by Lisa Petruskas
17	Owners/Service/EVTM Development Plan and Status: Kevin Dinkley(service), Dennis and EVTM (Karen Foster)	Owners & Service-FedEx EVTM- AFL
18	Risk Assessment(Major/Minor, No Risk) For Major and Minor risks, please provide a summary sheet to the TDR	Required for wiring and component engineers to provide status
19	Service parts- Please verify when the new parts are needed for service	Please verify with John Kirta (FCSD ANALYST)
20	Recommendation- Please let us know if anything was missing in the TDR and needed to support Design and release and not listed above	Required from all

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**P131/U137 MY2001 Adjustable Pedal PMT**

**Team members:** Donald Silampaa, Leon Susalla, Tim Tigh, Steve Engelgau, Phil Beuckelaers, Mat boyd, Keith Liedenman, Steve Campbell, Bill Mohler, Dan Sibthorp, Henry Ervon, Jerry Hess, Peter Huang, Steve Chen

Agenda Items	Status/Report	Open date	Close date	Responsibility
Timing Plan from Teleflex	The PSW date is set on 8/28/2000. Assumed kick-off production tooling on 8/3/1999. This timing plan does not meet 2001 Job #1 1. Teleflex brought in new timing plan with PSW date 8/28/2000 to meet Job #1. 2. Teleflex will bring detail DVP&R test and updated FMEA to next meeting 3. DVP&R was update on 7/21/99, but not FMEA, Teleflex prototype part does not support 2001 MY durability build MRD. The earliest Teleflex could make is first week of September.	7/30/99 6/30/99 7/21/99	7/21/99	Tim Tigh/ Bill Mohler
CAE crash test	Waiting for CAE people's respond 1. Steve Chen is checking test data by 6/14/1999 2. Teleflex agreed to design break away bracket, 7/2/1999	7/2/99		Steve Chen
Pedal may interference with hushpanel	U137 added a hushpanel in MY2000, need CAD study and may require re-design the hushpanel 6/23/99	7/2/99		Jerry Hess
Brake pedal interference with floormat	Need cut off floormat 2 inches	7/2/99	7/18/99	Jerry Hess
Best Duct	Need timing plan, DVP&R and FMEA	7/21/99		Sorin Stancu

File: agenda  
Date Created: 6/9/1999  
Date Revised / Printed: 08/04/1999

MEMO-944-9-3114

C



	1. Funding, Should Vietnam fund the project ? Closed 8/23/99				Bert Van Giesen
	2. Need prototype parts to support durability MRD	7/21/99	Close		
Switch Location	Need a switch location. Approved preliminary in Part II meeting, 8/18/99			8/18/99	Chris Atkinson
ECT connector	Use 10 pins or 6 pins connector				Don Silanpaa
	1. 10 pins was picked on 6/9/1999 PMT meeting	6/18/99		6/26/99	
	2. Teleflex need to pass the pin info to Leon Sosula	7/21/99		7/21/99	
Commonize accelerator bracket w/ fix pedal	Post Job #1				
		7/21/99		7/21/99	
Tie II supplier quality review	Need STA to support				Dan Engler
		7/21/99			
Campaign Prevention	Don Silanpaa need to provide a list of campaign history of accelerator pedal to the meeting				
		7/21/99			
Step Over High Variation	Need data from Teleflex				Isak Ilker
		7/21/99		7/30/99	
EMI test	Transfer this item to electrical PMT				
		7/21/99			
Part released status	Need switch part information loaded to WERS				
		7/21/99			

PERS-044-R-3119

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 Date Created: 8/8/1999  
 Date Revised / Printed: 06/04/1999

Prepared by: Peter Huang  
 P131 OPD Brake



# P1310FD Programs FastTrack Summary

FAST TRACK	FAST TARGETS AND STATUS																																										
<b>Team Leader:</b> Phil Benoit/Steve Roger Barlow <b>Team Members:</b> Donald Silveira, Norman Bahman, Alan Farrah, Bill Teller, Dan Hetherop, Mark Siboukani, Jerry Now.	<b>Objective / This Project:</b> [Redacted] <b>Status R(W) Objective:</b> [Redacted] <b>Assessment (R/Y/G):</b> [Redacted]																																										
<ul style="list-style-type: none"> <li>Revised timing plan finalized and provided.</li> <li>FMSA &amp; DVPR completed and under final review.</li> <li>Phase I prototype per on API durability, Snake Dev, &amp; Crash development work.</li> </ul>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 15%;">Actual Value</th> <th style="width: 15%;">Variable Cost</th> <th style="width: 15%;">Revenue</th> <th style="width: 25%;">Net Amount Earned/Profit</th> </tr> </thead> <tbody> <tr> <td><b>Objective Status</b></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>Status R(W) Objective</b></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p style="text-align: right; font-size: small;">July Kaplan/Dale Holden/Jan Epperson</p>		Actual Value	Variable Cost	Revenue	Net Amount Earned/Profit	<b>Objective Status</b>					<b>Status R(W) Objective</b>																															
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*SP DATE R/1000 - TrackFast*

*9/2 telefler required need for changing to warranty.*

File Preparer: KBABOSI  
 File Originator: G. Sorabel  
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Date Created: 2/21/00  
 Date Revised: 2/2/99  
 Date Printed: 2/22/00 10:33 AM

P1310-044-0-3118

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P131A1137 MY 2002 CP Build Matrix

VEHICLE BODY & CONSTRUCTION											ROBUSTNESS												ELECTRICAL/OLE												STRUCTURAL IRON												OPTICAL/CP FRONT											
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Legend for the Build Matrix

FRONT-044-9 3119

PC101M17 NY 2002 CP Bufile 10000

GENERAL BUILDING CONSTRUCTION										COMMERCE										MANUFACTURING										TRANSPORTATION										UTILITIES AND OTHER									
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Label Classes - Federal Standard Industrial Classification (FISIC) 1000-9999, 1000-9999

*These are Pasture  
Vehicles  
likely Japanese?*

*\* Adj Pedal Vehicles  
\* note: etc - Adj pedal  
not listed on Part List!  
(is it released?)*



11/08/99 10:00 FAX 7349813549

YMA CONFERENCE CENTER

001/001

**FAX COVER PAGE**  
**YAZAKI NORTH AMERICA, INC.**

6901 Haggerty Road  
Canton, MI 48107

Phone: 734-983-2962

Fax: 734-983-2963

*Used on 2001  
P131 / U137 ETC*

*J. V. 12/3  
11/9/99*

**COMPANY:** Ford Motor

**ATTN:** Mr. Chris Varianco

**FAX NUMBER:** (313) 594-2814

**DATE:** Nov 08, 1999

**SUBJECT:** 10 Way 1.5 sealed connector

**NO. OF PAGES (including this page):** 1

**SENDER:** Vijay Keshavamurthy

**DEPT. Connector.**

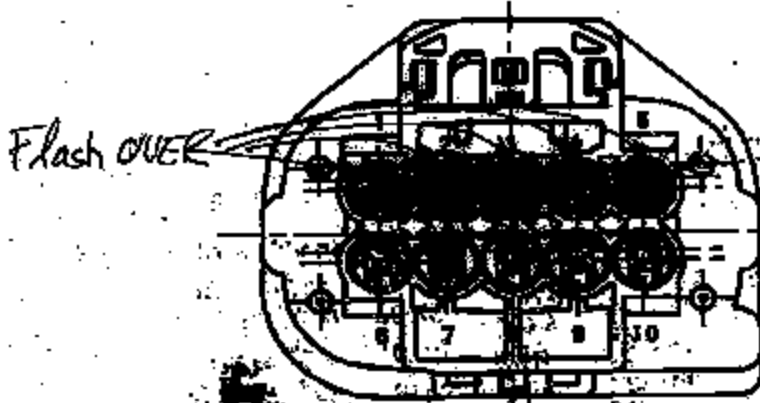
**MESSAGE:**

Hello Chris,

Please find below, a picture of the back view of the Yazaki 1.5 system sealed 10 way female connector.

The cavities are numbered according to the Ford SDS requirement. Please have the PHN engineer block the necessary cavities (by filling them in) and return this sheet to me so that we can make a drawing accordingly.

*Cover 1-5  
Cavities.*



*J. V. 12/3  
11/9/99*

*Chris Varianco  
YAZAKI, NA 11/9/99*

Please obtain the appropriate signatures for concurrence.  
Thank You.

Regards,

*Vijay Keshavamurthy*  
Vijay Keshavamurthy

*M. Sungen - AFL  
11/9/99*

*J. Crawford - AFL 11/9/99*

*Chad [unclear] 11/9/99*

YAZAKI.DOC(10.11.99)

AZ-998, Rev. 1.5



2/14/00

DR/U work Don Silligman on release of testina for lunch panel

- ② Complete review of FMEA BY next week.
- ③ VO processing for agenda for PMT mtg.
- ④ APQP - ~~to~~ for teleflex - need to discuss in PMT meetings.

### P131/U137 Adjustable Pedal Program

⑤ Discuss with ~~ISAXX~~ ISAXX package sign off requirements

Supplier: Teleflex Inc.

✓ ⑥ Send note to Todd Long/Cavanaugh on releasing adj Pedals for customer ordering.

Presenter: Roger Barbosa P131/U137 Chassis OPD

Bill Teller <del>(141)</del> 248-616-3843
--

02/14/00

Roger Barbosa/RBARBOS1 X07710

MEM-044-R 3187



## P131/U137 Adjustable Pedal Program

- Production incorporation - 1/2/01 (MY2001 Added Starter, slippage from previous 12/1/00 date)
- Current Full PSW Date: 12/1/00 (slippage from previous 9/1/00 Date)
- Initial Design Release Done On C10947275
- New Design Changes Documented On C11058581(Authorized 2/10/00)
- Updated FMEA Under Review By Engineering (see attached package)
- Updated DVPR Not Available For Review Yet, Availability Date TBD
- Phase I Component DV Test Program: 2/15/00 - 3/28/00
- Phase II (ETC Redesign) DV Test Program: 4/3/00 - 5/12/00
- Phase II Design parts for vehicle tests available 3/31/00
- Phase I Design Parts Currently On Vehicle Test (Durability & FMVSS 105 Tests)

PERC-444-9 3188

02/14/00

Roger Barbosa/RBARBOS1 X07710

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## P131/U137 Adjustable Pedal Program

### Issues

- Continued Teleflex Slippage Of Program Timing Dates
- Component DV Testing (Phase 1) Start Date Has Slipped to 2/15/00
- Current Teleflex Program Timing Leaves Little Contingency For Resolution Of Test Failures
- Part Availability For Vehicle Evaluation(s)/Testing
- Teleflex Redesigned ETC (Phase 2) - New Parts Not Available Until 3/31/00.
- Durability Test Malfunction Of Phase 1 ETC Adjustable Accelerator After Only 3 Weeks Of Testing

PER-04-A 3189

02/14/00

Roger Barbosa/RBARBOS1 X07710

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## P131/U137 Adjustable Pedal Program

### Next Steps

- Program Schedule To Be Reviewed At Weekly PMT Meetings.
- Teleflex Has Assigned Full Time Program Manager To P131/U137 Pedal Program.
- Mini Design Review On ETC Held On 2/11/00 With RVT ETC Expert(s). F/U Meeting To Be Scheduled For This Week.
- Finalizing Parts Requirements To Support All Vehicle Test Needs.
- Awaiting 8D On Durability Test Malfunction Of ETC Pedal

FORM 044-0 3280

02/14/00

Roger Barbosa/RBARBOS1 X07710

4

**PLAN A**

**U137 ADJUSTABLE PEDALS AND ETC EXPEDITED TIMING**

ID	Task Name	Dur	Start	Finish	% C	Pns	Calendar																																																																																
							Jan 27	Jan 31	Feb 3	Feb 7	Feb 10	Feb 14	Feb 17	Feb 21	Feb 24	Feb 28	Mar 3	Mar 7	Mar 10	Mar 14	Mar 17	Mar 21	Mar 24	Mar 28	Apr 1	Apr 4	Apr 8	Apr 11	Apr 15	Apr 18	Apr 22	Apr 25	Apr 29	May 2	May 6	May 9	May 13	May 16	May 20	May 23	May 27	May 30	Jun 3	Jun 7	Jun 10	Jun 14	Jun 17	Jun 21	Jun 24	Jun 28	Jul 1	Jul 5	Jul 8	Jul 12	Jul 15	Jul 19	Jul 22	Jul 26	Jul 29	Aug 2	Aug 6	Aug 9	Aug 13	Aug 16	Aug 20	Aug 23	Aug 27	Aug 30	Sep 3	Sep 7	Sep 10	Sep 14	Sep 17	Sep 21	Sep 24	Sep 28	Oct 1	Oct 5	Oct 8	Oct 12	Oct 15	Oct 19	Oct 22	Oct 26	Oct 29	Nov 2	Nov 6
1	Prototype Phase 1	80 days	Thu 1/8/00	Wed 3/28/00	88%		[Gantt bar from 1/8 to 3/28]																																																																																
2	Component Order/Receive	17 days	Thu 1/8/00	Fri 1/28/00	100%		[Gantt bar from 1/8 to 1/28]																																																																																
3	Track Hole/Dimension plate weldment	13 days	Thu 1/8/00	Mon 1/24/00	100%		[Gantt bar from 1/8 to 1/24]																																																																																
4	Motor Brackets	8 days	Mon 1/17/00	Mon 1/24/00	100%		[Gantt bar from 1/17 to 1/24]																																																																																
5	Diodes	8 days	Fri 1/21/00	Fri 1/28/00	100%		[Gantt bar from 1/21 to 1/28]																																																																																
6	ETC pedal assembly	21 days	Tue 1/18/00	Tue 2/18/00	43%		[Gantt bar from 1/18 to 2/18]																																																																																
7	Build accel clamp sub assembly	6 days	Tue 1/18/00	Tue 1/25/00	100%		[Gantt bar from 1/18 to 1/25]																																																																																
8	Ship accel clamp sub assembly to supplier	1 day	Wed 1/25/00	Wed 1/25/00	100%	7	[Gantt bar from 1/25 to 1/25]																																																																																
9	ETC supplier to assemble ETC	10 days	Thu 1/27/00	Wed 2/6/00	30%	8	[Gantt bar from 1/27 to 2/6]																																																																																
10	Ship completed ETC sub assembly to Telelec	1 day	Thu 2/10/00	Thu 2/10/00	0%	6	[Gantt bar from 2/10 to 2/10]																																																																																
11	Build accel clamp pedal	3 days	Fri 2/11/00	Tue 2/16/00	0%	10	[Gantt bar from 2/11 to 2/16]																																																																																
12	Build Brake Pedal Gas	5 days	Tue 1/25/00	Mon 1/31/00	30%	3,4	[Gantt bar from 1/25 to 1/31]																																																																																
13	Build Accel Pedal Gas	5 days	Tue 1/25/00	Mon 1/31/00	80%	2	[Gantt bar from 1/25 to 1/31]																																																																																
14	Build Brake Pedal Diesel	3 days	Tue 1/25/00	Fri 2/4/00	44%	5,4	[Gantt bar from 1/25 to 2/4]																																																																																
15																																																																																							
16	DV Testing Phase 1	38 days	Fri 2/4/00	Wed 3/28/00	0%		[Gantt bar from 2/4 to 3/28]																																																																																
17	DVP testing adjustable pedals	8 wks	Fri 2/4/00	Thu 3/15/00	0%	12PB-3 days	[Gantt bar from 2/4 to 3/15]																																																																																
18	Update DVPR	1 day	Fri 3/17/00	Fri 3/17/00	0%	17	[Gantt bar from 3/17 to 3/17]																																																																																
19	DVP testing ETC	8 wks	Wed 3/15/00	Tue 3/28/00	0%	11	[Gantt bar from 3/15 to 3/28]																																																																																
20	Update DVPR	1 day	Wed 3/29/00	Wed 3/29/00	0%	19	[Gantt bar from 3/29 to 3/29]																																																																																
21	Prototype Phase 2	78 days	Thu 1/27/00	Mon 4/18/00	1%		[Gantt bar from 1/27 to 4/18]																																																																																
22	Review parts for correct dimensioning/MT	7 days	Thu 1/27/00	Fri 2/4/00	26%		[Gantt bar from 1/27 to 2/4]																																																																																
23	Design studies/teqns	8 days	Tue 2/1/00	Mon 2/7/00	0%	22PB-4 days	[Gantt bar from 2/1 to 2/7]																																																																																
24	FEA	8 wks	Mon 2/7/00	Fri 3/18/00	0%	22	[Gantt bar from 2/7 to 3/18]																																																																																

Product Engineer: Aisa Farah Telelec Automating Revision Date: Wed 2/8/00	Task: [Redacted] Program: [Redacted] Milestone: [Redacted]	Summary: [Redacted] Rollover Task: [Redacted] Rollover Milestone: [Redacted]	Rollover Progress: [Redacted] Style: [Redacted] External Task: [Redacted]	Project Summary: [Redacted]
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PERO-044-R-1281

CONFIDENTIAL

**PLAN A**

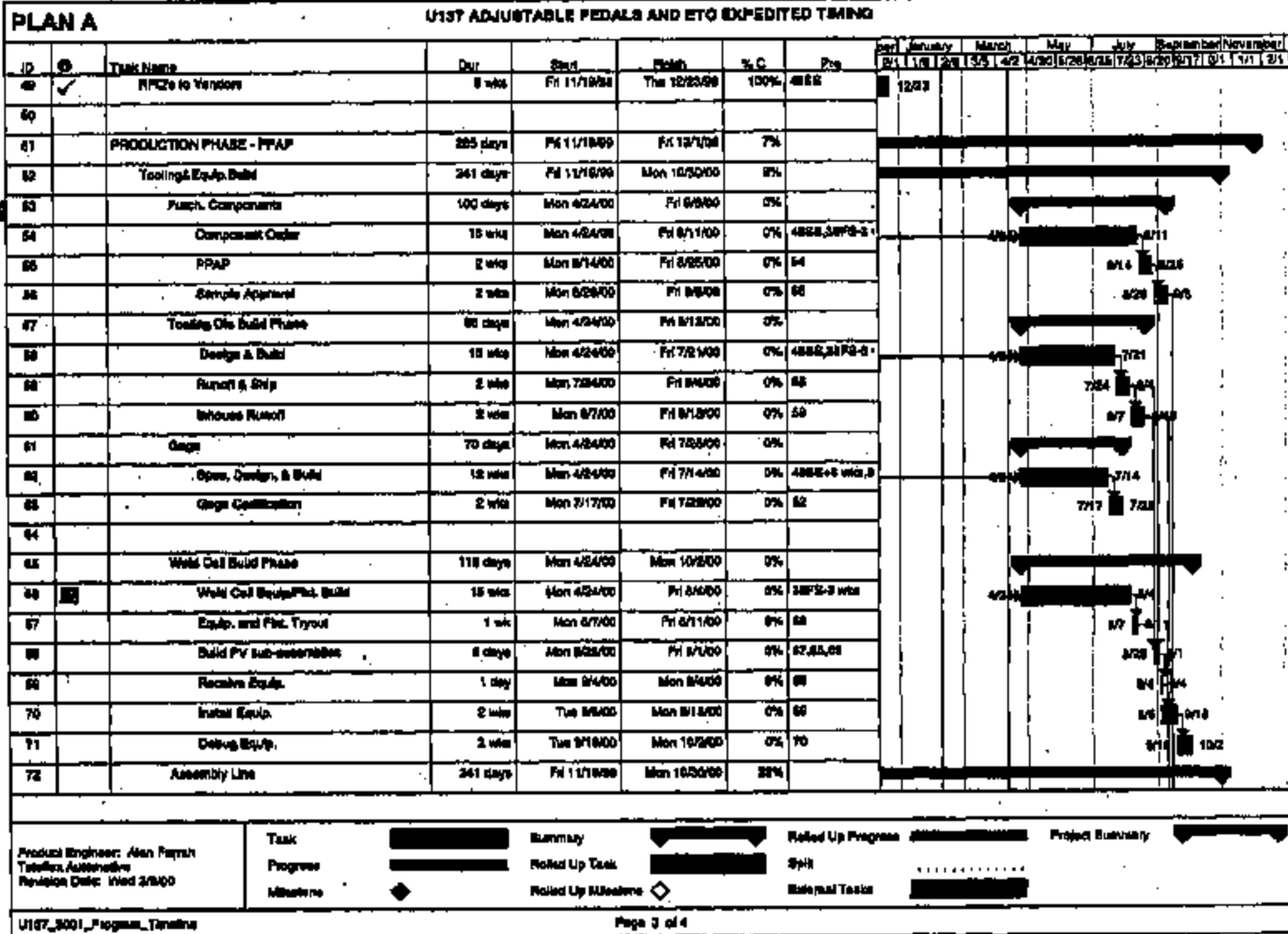
**U137 ADJUSTABLE PEDALS AND ETC EXPEDITED TIMING**

ID	Task Name	Dur	Start	Finish	% C	Pre	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
25	VSA	2 wks	Mon 2/7/00	Fri 2/18/00	0%	22												
26	Review design/print (if necessary)	3 days	Mon 2/21/00	Wed 2/23/00	0%	24,25												
27	Order Acorn Bracket	5 wks	Thu 2/10/00	Wed 3/15/00	0%	28FB-10 days												
28	Order all other steel components	5 wks	Thu 2/10/00	Wed 3/15/00	0%	28FB-10 days												
29	ETC pedal assembly	12 days	Thu 2/10/00	Fri 3/3/00	0%													
30	Build acorn steel sub assembly	3 days	Thu 2/10/00	Mon 2/20/00	0%	27,28												
31	Ship acorn steel sub assembly to supplier	1 day	Tue 2/21/00	Tue 2/21/00	0%	30												
32	ETC supplier to assemble ETO	6 days	Wed 2/23/00	Tue 3/28/00	0%	31												
33	Ship completed ETC sub assembly to Teletel	1 day	Wed 2/23/00	Wed 2/23/00	0%	32												
34	Build acorn steel pedal	2 days	Thu 2/23/00	Fri 2/23/00	0%	33												
35	DV Testing Phase 2	31 days	Mon 4/3/00	Mon 5/15/00	0%													
36	DVP testing adjustable pedals	6 wks	Mon 4/3/00	Fri 5/12/00	0%	34												
37	Update DVPR	1 day	Mon 5/15/00	Mon 5/15/00	0%	35												
38	DVP testing ETO	6 wks	Mon 4/3/00	Fri 5/12/00	0%	34												
39	Update DVPR	1 day	Mon 5/15/00	Mon 5/15/00	0%	38												
40																		
41	PRODUCTION RELEASE PACKAGE	48 days	Mon 11/1/99	Tue 1/1/00	100%													
42	Design/Manufacturing Review	1 day	Mon 11/1/99	Mon 11/1/99	100%													
43	Design/Design Priorization	45 days	Tue 11/2/99	Tue 1/1/00	100%													
44	Update Drawings/Design	6 wks	Tue 11/2/99	Mon 12/13/99	100%	42												
45	Tolerance Study	3 wks	Tue 12/7/99	Tue 1/4/00	100%	43FB+5 wks												
46	FEA	3 wks	Tue 12/7/99	Tue 1/4/00	100%	43FB+5 wks												
47	Drawing/ Design Update after cost/FEA	1 wk	Wed 1/2/00	Tue 1/1/00	100%	45,48												
48	Release Springfield Work Orders	4 wks	Fri 1/12/00	Thu 1/21/00	100%	43FB+13 days												

Product Engineer: Alan Ferah  
 Teletel Assemblies  
 Revision Date: Wed 5/24/00

Task: [ ] Summary: [ ] Rolled Up Program: [ ] Project Summary: [ ]  
 Program: [ ] Rolled Up Task: [ ] SR: [ ]  
 Milestone: [ ] Rolled Up Milestone: [ ] External Tests: [ ]

PWC-544-8-2002



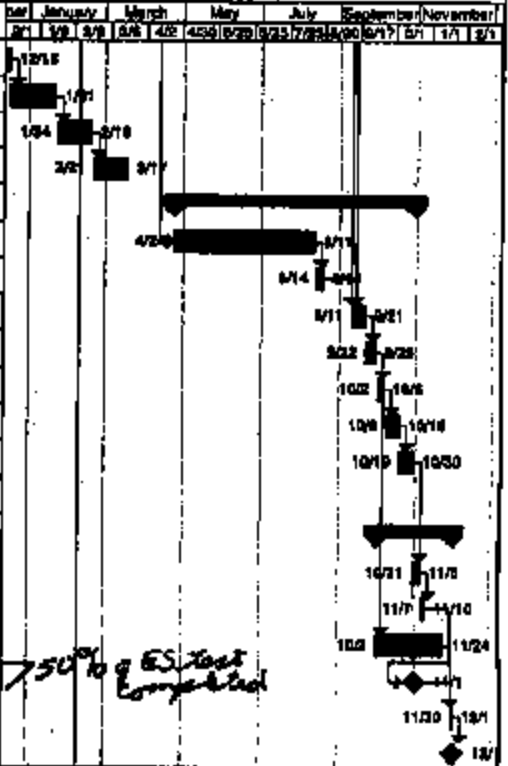
PWS-044-0-3283

U137\_9001\_Program\_Timeline

**PLAN A**

**U187 ADJUSTABLE PEDALS AND ETC EXPEDITED TIMING**

ID	Q	Task Name	Dur	Start	Finish	% C	Prs	Jan	February	March	April	May	June	July	August	September	October	November	December
73	✓	Line Layout, Process Flow	4 wks	Fri 11/18/99	Thu 12/15/99	100%	4892												
74	✓	PPMEA	4 wks	Fri 12/17/99	Fri 1/12/00	100%	73												
75		Control Plan	4 wks	Mon 1/24/00	Fri 2/16/00	25%	74												
76		Work Instructions	4 wks	Mon 2/21/00	Fri 3/17/00	0%	76												
77		Assembly Line Capital/Tooling	150 days	Mon 4/24/00	Mon 10/30/00	0%													
78	■	Design & Build	18 wks	Mon 4/24/00	Fri 6/11/00	0%	38PB-3 wks												
79		Equip and Pld. Tqou I at Vendor	1 wks	Mon 6/14/00	Fri 6/18/00	0%	78												
80		Build PV Parts at Vendor (Omega)	3 days	Mon 6/11/00	Thu 6/21/00	0%	79,80,86,88												
81		ETC sub assembly at supplier	3 days	Fri 6/23/00	Fri 6/29/00	0%	80												
82		Receive Equip.	1 wks	Mon 10/9/00	Fri 10/13/00	0%	81												
83		Install Equip.	3 days	Mon 10/9/00	Wed 10/18/00	0%	82												
84		Debug Equip.	3 days	Thu 10/12/00	Mon 10/30/00	0%	83												
85																			
86		PPAP Phase	45 days	Mon 10/23/00	Fri 12/1/00	0%													
87		Process Capability	5 days	Tue 10/31/00	Mon 11/6/00	0%	84												
88		Build PPAP Parts	4 days	Tue 11/7/00	Fri 11/10/00	0%	87												
89		E.S. Testing	3 wks	Mon 10/2/00	Fri 11/24/00	0%	81												
90		Intens PPAP	0 days	Wed 11/1/00	Wed 11/1/00	0%	86PB-16 days												
91		PPAP Paperwork	2 days	Thu 11/23/00	Fri 12/1/00	0%	86,90												
92	■	Full PPAP	0 days	Fri 12/1/00	Fri 12/1/00	0%	91												



*PV parts are going to be built on production machines but not in production facility.*

*KTP production will be from run at rate waste made from production facility but minus 100% E test and would be available 11/1/00. Full PPAP on 12/1 at conclusion of E test.*

Product Engineer: Alan Farrah  
 Telefax: Automobile  
 Revision Date: Wed 2/6/00

Summary  
 Rolled Up Progress  
 Project Summary

Progress  
 Rolled Up Task  
 Split

Milestones  
 Rolled Up Milestone  
 External Tests

PERS-044-R-2284

CONTRACT LINE

# P131/U137 Adjustable Pedal Program

Supplier: Teleflex Inc.

Presenter: Roger Barbosa P131/U137 Chassis OPD

PERC-944-A 3381

01/31/00

Roger Barbosa/RBARBOS1 X07710

1

## P131/U137 Adjustable Pedal Program

- Production incorporation - 12/1/00 (MY2001 Added Starter)
- Current PSW Date: 9/1/00
- Initial Design Release Done On C10947275
- New Design Changes Being Done On C11058581
- Updated FMEA Under Review By Engineering
- Updated DVPR Not Available For Review Yet
- Component DV Test Program Start Date: 2/15/00
- Latest Design Parts Currently On Vehicle Test

FORM 844-0 3/82

01/31/00

Roger Barbosa/RBARBOS1 X07710

2



## P131/U137 Adjustable Pedal Program Issues

- Teleflex Slippage Of Program Timing Dates
- Component DV Testing Start Date Has Slipped to 2/15/00
- Current Teleflex Program Timing Leaves Little Contingency For Resolution Of Test Failures
- Unavailability Of Parts For Vehicle Evaluation(s)
- Adjustable Pedal Noise
- Teleflex Redesigned ETC - New Parts Not Available Until 4/23/00.

PERC-044-0 3323

01/31/00

Roger Barbosa/RBARBOS1 X07710

3

UNCLASSIFIED CONFIDENTIAL



# Teleflex

## Fax Transmission

DATE: ~~11-18-99~~ 1-20-00

Total number of pages:

TO:	Roger Barbosa Jerry McDaniel	From:	Alan Farrah
FAX:	313-317-2349 - Roger 313 248-1555 - Jerry	Phone:	248-577-3245 W 248-868-8373 P 248-616-3810 F

**REMARKS:**

Urgent     For your review     Reply ASAP     Please Comment

**SUBJECT:**

Hello Roger and Jerry,

Attached are the design transmittal for the motor/memory connector and the ETC connector. Any question please call me.

Regards,

Alan Farrah



**Device Transmittal**

Vehicle Code:  Model Year:  Vehicle Line:   
 Device Name:   
 Subsystem Name:

Rad Device Engineer:   
 Phone Number:   
 Signature:   
 Location/Club:

Control Number:   
 WGA Code:   
 Revised Date:   
 FFWB System Engineer:   
 Phone number:

Device Part Number:  Device Connector PIN:   
 Device Supplier:  Device Connector Supply:   
 WHI Slave Number:  Device Connector Type:   
 Veh Location Code:

Device Connector View:

WHI Connector View:



Ford Connector PIN:  Rad Core App Form No:   
 Connector Supplier:  Connector Description:   
 Ford System PIN:  Does Connector meet basic ISO Requirements? Yes  No

If Connector does not have a Ford Part Number, a Connector Description Form must be submitted.

Qty	Device Part Number	Device Connector PIN	Device Connector Type	Device Connector Supplier	Device Connector								WHI Connector					Lot #										
					Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Pin 10	Pin 11	Pin 12	Pin 13		Pin 14	Pin 15								
A	APPS - Adm 1 (module)	108A	4.8	5.0	5.2																							
B	U/Trans	108A	4.8	5.0	5.2																							
C	APPS - Adm 2 (module)	108A	4.8	5.0	5.2																							
D	APPS - Adm 3 (module)	108A	4.8	5.0	5.2																							
E	APPS - Adm 4 (module)	108A	4.8	5.0	5.2																							
F	APPS - Adm 5 (module)	108A	4.8	5.0	5.2																							
G	APPS - Adm 6 (module)	108A	4.8	5.0	5.2																							
H	APPS - Adm 7 (module)	108A	4.8	5.0	5.2																							
I	APPS - Adm 8 (module)	108A	4.8	5.0	5.2																							
J	APPS - Adm 9 (module)	108A	4.8	5.0	5.2																							
K	APPS - Adm 10 (module)	108A	4.8	5.0	5.2																							

Ford System Engineer:  Phone Number:  Signature:  Location/Club:   
 Ford Wiring Engineer:  Phone Number:  Signature:  Location/Club:   
 Ford Conn. Des. Engineer:  Phone Number:  Signature:  Location/Club:   
 Ford Test Engineer:  Phone Number:  Signature:  Location/Club:   
 Ford Core App Engineer:  Phone Number:  Signature:  Location/Club:

Comments: The Technical Intermediate holding this connector and pin (PCID) with the Intermediate holding. The Original connector attached in its respective location.  
 The Whedol part number needs to be added to this design instruction.  
 The WHI Ford part number needs to be added to this design instruction.

PAGE 044-0304

**Barbosa, Roger (FL)**

**From:** McDaniel, Jerry (J.)  
**sent:** Thursday, January 20, 2000 2:18 PM  
**To:** Al-Zaher, Houda; Alles, Sheran; Anderson, Shana; Babich, Peter; Barbosa, Roger; Baydoun, Michael; Binnie, Brian; Biatawski, John; Bishop, Andrew; Brefeld, Thomas; Brodbeck, Harry; Caliva, Deborah; Ciesler, Jon; Cohen, Jeffrey; Coklow, Kim; Connor, Dana; Connors, Stacie; Conway, Jeff; Cook, Paul; Crockett, Dante; Davis, Grant; Edwards, Mark; Engstrom, Casey; Farrah, Alan; Frenetta, Gordon; Gibson, Orlando; Glidden, Dave; Gouwens, Tim; Greenbank, Jon; Gusta, Mike; Guznack, Norrr; Hendry, Gregory; Henion, Paul; Hille, Kevin; Homer, Ken; Huling, Jack; Irby, Michael; Jackson, Horace; Jenks, Matt; Kibroy, Tim; Kleva, Bob; Kresa, Steven; Lindeman, Bill; Lingg, Dan; Loiselle, Matt; Mankert, Johan; Mastronardi, Al; Matufonis, Bob; Mayer, Mike; Mayer, Paul; McLean, Lillian; Michels, Jason; Montes, Jhammel; Mulder, Casey; Muncy, Kevin; Najor, Rene; Ohlsson, Michael; Patel, Piyush; Pettinaon, Craig; Penna, Keith; Rattedge, Keith; Rea, Philip; Roseman, Barbara; Sarkar, Raj; Schepke, Anthony; Schiltges, Dave; Sejalan, Fred; Sells, Thomas; Simak, Stephens Jr; Walker, Sibol, Dan; Stockman, Michael; Strader, Dave; Tigner, Daniel; Tim, Dieter; Vanglessen, Bert; Weston, Mark; Willie, Elbert; Younus, Mohammad; Zurek, John

**2001 SUPER DUTY & EXCURSION ELECTRICAL SYSTEMS PAT MEETING**  
**PDC 2DM18**  
**Friday January 21, 2000**  
**8:00 - 9:00**

**AGENDA:**

- 7:00 - 8:30**      **Open Issues Review**  
Key People: All  
Review of Open Issues List  
Please Bring: J. McDaniel - Open Issues list
- 8:30 - 8:45**      **CP Build Specification Summary**  
Key People: All  
Review of CP Specifications  
Please Bring: J. McDaniel - Build Spec Summary
- 8:45 - 8:50**      **Review of Open ECRs**  
Key people: J. McDaniel, D. Crockett, M. Loiselle, M. Stockman, O. Gibson  
ECR-0030 Deletion of Park Brakes Input to 7.3L PCM  
Please Bring: McDaniel/Crockett - 5 copies of ECRs
- 8:50 - 9:00**      **Status of Approved ECRs**  
Key people: J. McDaniel, D. Crockett, M. Loiselle, M. Stockman, O. Gibson  
Review status of approved ECRs to see if the schematic updates have been completed and if they have been incorporated into the released prints.

*Jerry W. McDaniel*  
Ford Motor Co.  
20023 P131/U137A/2151F53 Electrical Systems Engineer  
PDC 2DM31 Phone (313) 24-61555

-270-678-1765-

248-489-7680 FAX

7414

Charles Loyton

PERG-044-R 3343

2001 MY

2001 BLETCHLEY  
PORT MANTON  
11/9/99

- L. GILPIN - H&B
- N. RAMMEL - FS
- P. HUNNIG - FSU
- J. CRANFORD - AFL
- M. SHROBEN - AFL
- C. VALLANES - YAZAKI

Pins 1-5 Blacked - FLASHED OVER  
Pins 6-10 Open

2-485 153838 P. 02/02

TELEFLEX TROY

NOV-03-1999 17:57

PS80-044-A 3085

TOTAL P.02

**Device Transmitter**

Vehicle Code:  Model Year:  Vehicle Use:

Device Name:

Substation Name:

Device Part Number:  Device Connector Type:

Device Supplier:  Supplier Connector Style:

Wire Base Number:  Device Connector Type:

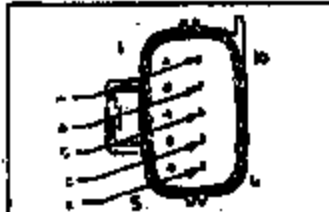
Wire Location Code:

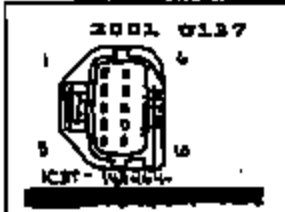
Field Clean up:  Part Code Any Part No:

Connector Supplier:  Connector Description:

Field To base Part:  On to Computer used for:

On to Computer used for:

Device Connector View: 

Wire Extension View: 

Code	Device Function	NS	Dimensions	Wire	Wire Size	Voltage						Terminals		Wire To In		Wire To In	Terminal Part Number	Term. Suppl. Term. Size	Wire Size	Wire Post	Wire Spacing	
						Min	Max	Min	Max	Min	Max	Min	Max	Min	Max							
A	Handheld mobile (push to talk)					12V	12V	12V	12V	12V	12V	12V	12V	12V	12V	12V	12V					
B	Handheld mobile (push to talk)					12V	12V	12V	12V	12V	12V	12V	12V	12V	12V	12V	12V					
C	Handheld mobile (push to talk)					12V	12V	12V	12V	12V	12V	12V	12V	12V	12V	12V	12V					
D	Handheld mobile (push to talk)					12V	12V	12V	12V	12V	12V	12V	12V	12V	12V	12V	12V					
E	Handheld mobile (push to talk)					12V	12V	12V	12V	12V	12V	12V	12V	12V	12V	12V	12V					

Field Service Engineer:  Phone number:  Signature:  Location Code:

Field Service Engineer:  Phone number:  Signature:  Location Code:

Field Service Engineer:  Phone number:  Signature:  Location Code:

Field Service Engineer:  Phone number:  Signature:  Location Code:

Field Service Engineer:  Phone number:  Signature:  Location Code:

J. Crum 11/9/99  
Phyllis J. Vandace 11/9/99

M. Spitzer 11/10/99  
D. Spitzer 11/10/99  
Q. Crum 11/10/99  
Gilpin 11/10/99

Don Spitzer 11/10/99

Form 8000 (11/09/99)  
Date Entered (MM/DD/YY)



TV

## U137 PROGRAM - OPEN ISSUES

Program: U137/P131

Description: Braks, Accel & ETC Adjustable Pedals

Program Manager: Elio Evangelista

Ford STA: Doug Veit / Bill Gesler

P/N: 2C34 2450 EB (026T-G0128); 2C34 2450FB (026T-G0129); 2C34 9F836 CB (026T-G0133); 2C34 9726 CC (026T-G0132);  
2C34 9G662 AB (026T-G0142); 2C34 9G662 BC (026T-G0143) 2C34 9726 EA (026T-G0166)

Ford Engineer: Lisa Petruskas

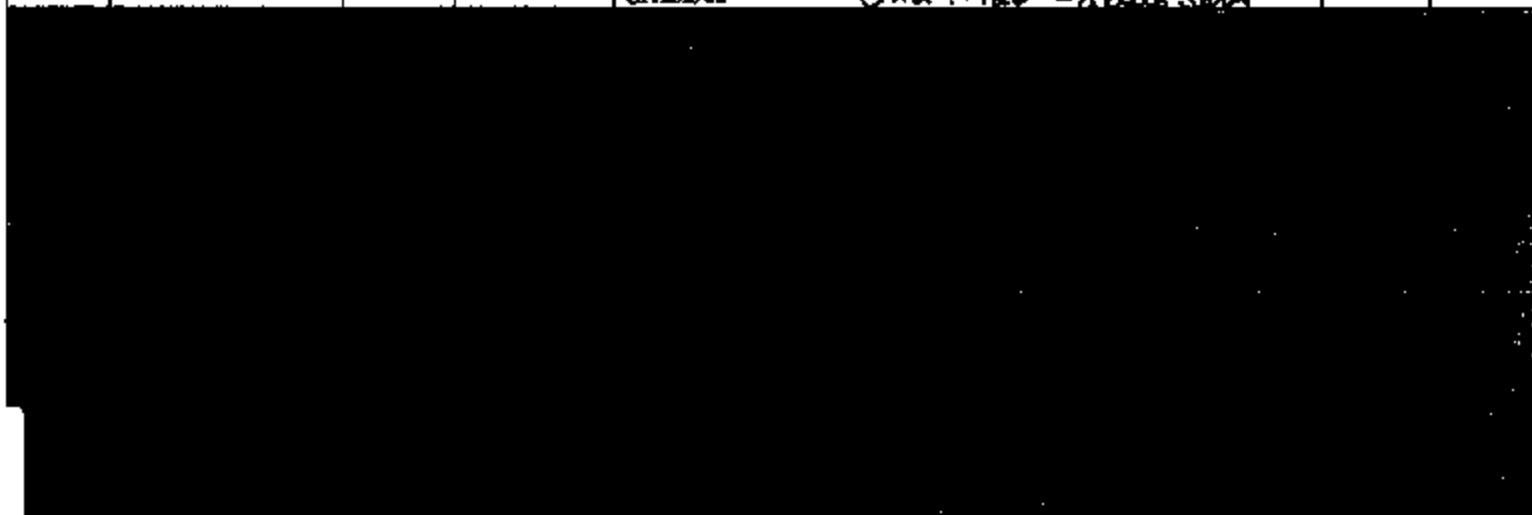
TFX Engineer: Greg Bramiff

Account Manger: Conrad Nicster

Quality Engineer: Ben Franklin

Issue #	Description	Date Opened	Responsible	Update / Status	Date Due	Date Closed
---------	-------------	-------------	-------------	-----------------	----------	-------------

	PPAP Promise Data	6/6/01	B. Franklin/ E. Evangelista	2C34 2450 EB - Adjustable Brake Assy - Gas 2C34 2450 FB - Adjustable Brake Assy - Diesel 2C34 9F836 CB - Adjustable Accelerator Assy - Diesel (ETC) 2C34 9726 CC - Adjustable Accelerator Assy - Gas (5.8 L) 2C34 9G662 AB - Motor Assy - Adjustable Pedals - Non Memory 2C34 9G662 BC - Motor Assy - Adjustable Pedals - Memory - Ref Concern CI 1237959, Alert A11237993 2C34 9726 EA - Adjustable Accelerator Assy - Gas (5.8 L) - Ref Concern CI 1232702	7/2/01 7/2/01 7/2/01 7/2/01 7/12/01 8/20/01	
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Author: Elio Evangelista  
 Filename: U137\_2002\_Open\_Issues

Last printed: 07/10/01  
 Last Updated: 07/09/01

Created on: 1/24/01  
 Page 1 of 5

PE03-044-0 2449

CONFIDENTIAL

## U137 PROGRAM - OPEN ISSUES

Program: U137/P131

Description: Brake, Accel & ETC Adjustable Pedals

Program Manager: Elio Evangelista

Ford STA: Doug Veit / Bill Gealer

P/N: 2C34 2450 EB (026T-G0128); 2C34 2450FB (026T-G0129); 2C34 9F836 CB (026T-G0133); 2C34 9726 CC (026T-G0132);  
2C34 9G662 AB (026T-G0142); 2C34 9G662 BC (026T-G0143) 2C34 9726 EA (026T-G0166)

Ford Engineer: Lisa Petruskas

TFX Engineer: Greg Branniff

Account Manger: Conrad Niester

Quality Engineer: Ben Franklin

Issue #	Description	Date Opened	Responsible	Update / Status	Date Due	Date Closed
10	Adjustable Pedal - Accel Gas (026T-G0132) Ford P/N 2C34 9726 CC Ref Concern C11232782	5/31/01	M. Foreman	Add error proofing device to line that ensures the correct spring is in assembly (Gas vs. ETC). Pedal arm should "fall" forward under own weight.	8/12/01	
12	Adjustable Pedal - Accel Gas (026T-G0166) Ford P/N 2C34 9726 EA Ref Concern C11231702	5/31/01	G. Branniff  L. Petruskas  L. Petruskas	Pedal life cycle test to ensure spring life - PV testing. Parts rec'd for testing start 6/4/01. Testing complete, switching spring to new version, new spring required. FMVSS testing at Ford (FMVSS 124). Per meeting 6/5/01, testing to start at room temp first, cold testing scheduled for Friday 6/8/01. Testing based on 1 <sup>st</sup> spring design did not pass. New FMVSS testing with changed springs to pedal and throttle body.	6/11/01  6/5/01  6/14/01	6/11/01  6/8/01  6/29/01

Author: Elio Evangelista  
Filename: U137\_2002\_Open\_Issue

Last printed: 07/10/01  
Last Updated: 07/09/01

Created on: 1/24/01  
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FORM 844-9 3448

U137/P131



## U137 PROGRAM - OPEN ISSUES

Program: U137/P191

Description: Brake, Accel & ETC Adjustable Pedals

Program Manager: Elio Evangelista

Ford STA: Doug Veit / Bill Gesler

P/N: 2C34 2450 EB (026T-G0128); 2C34 2450FB (026T-G0129); 2C34 9F836 CB (026T-G0133); 2C34 9726 CC (026T-G0132);  
2C34 9G662 AB (026T-G0142); 2C34 9G662 BC (026T-G0143); 2C34 9726 EA (026T-G0166)

Ford Engineer: Lisa Potruskas

TFX Engineer: Greg Bramiff

Account Manager: Conrad Nister

Quality Engineer: Ben Franklin

Issue #	Description	Date Opened	Responsible	Update / Status	Date Due	Date Closed
			G. Bramiff	Testing complete and passed FMVSS. Drive evaluation at KTP 6/29/01 approved pedal feel. Pedal life cycle test to ensure spring life - PV testing.	8/13/01	
13	Adjustable Pedals - ALL	5/31/01	G. Bramiff	1) PV testing - Parts built for FUE build - Ref DVP&R. 1 of 6 accel cables did not pass PV testing. Cable replaced and testing continued. Full completion of current testing 6/7/01. Testing complete 2) PV testing - New spring for APS - Testing for spring life only. (Used an Accelerator Assembly 2C34 9726CC) - 3) PV testing - Repeat Life Cycle for new cable length. (Used on Memory motor assembly 2C34 9G662 BC). Parts tested must be off @state Testing complete - See DVP&R 4) Accelerator Assembly for 6.8 L - Ford P/N 2C34 9726 EA (026T-G0166) - Ref Concern C11232702 - PV testing on new spring to ensure spring life.	6/10/01 6/11/01 7/10/01 8/13/01	6/11/01 6/11/01 7/09/01

P203-044-A 2447

Author: Elio Evangelista  
Filename: U137\_2002\_Open\_Issue

Last printed: 07/10/01  
Last updated: 07/09/01

Created on: 1/24/01  
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## U137 PROGRAM - OPEN ISSUES

Program: U137/P131

Description: Brake, Accel & ETC Adjustable Pedals

Program Manager: Elio Evangelista

Ford STA: Doug Veit / Bill Gesler

P/N: 2C34 2450 EB (026T-G0128); 2C34 2450FB (026T-G0129); 2C34 9F836 CB (026T-G0133); 2C34 9726 CC (026T-G0132);  
2C34 9G662 AB (026T-G0142); 2C34 9G662 BC (026T-G0143) 2C34 9726 EA (026T-G0166)

Ford Engineer: Lisa Petranakas

TFX Engineer: Greg Braniff

Account Manager: Conrad Niester

Quality Engineer: Ben Franklin

Issue #	Description	Date Opened	Responsible	Updates / Status	Date Due	Date Closed
15	<p>Run@Rate - Motors Ford P/N 2C34 9G662 AB</p> <p>2C34 9G662 BC Concern # 11237959, Alert A11237993</p>	6/1/01	B. Franklin/Ed. Foreman	<p>Scheduled 6/6/01. (Based on Accelerator Assembly 2C34 9726CC) Date changed to 6/5/01. Run@rate complete - Avg. 34 parts/hour (target 40 parts/hr) Date changed to 7/11/01 (based on cable issue &amp; PV testing)</p>	6/6/01 7/11/01	6/5/01
17	<p>Accel Cable - Memory Motor Concern # 11237959, Alert A11237993</p>	6/1/01	<p>G. Braniff J. Mango J. Mango</p> <p>B. Franklin</p>	<p>Did not pass PV testing. Retuning to IFF design length+ 4mm for IB build. (Used on Memory Motor Assembly 2C34 9G662 BC). Parts are to be off production equipment.</p> <ul style="list-style-type: none"> <li>- Need Alert to retrofit parts at KTP. Alert # A11237993</li> <li>- Retrofit parts at KTP. Initial batch of cables received.</li> <li>- Tryout at KTP to ensure no build issues. IB complete no reported issues.</li> <li>- Memory Motor PPAP - PPAP will include testing</li> </ul>	6/4/01 6/8/01 6/8/01 7/12/01	6/4/01 6/8/01 6/8/01
18	Motor Noise	6/4/01	G. Braniff, R. Mundroff	<p>Conduct DOE # 3 Mundroff to provide in-vehicle data of modif cars by</p>	6/15/01	
20	<p>Rattle/Lash concerns Concern C11231780</p>	6/4/01	G. Braniff	<p>1) Changes to following components to improve rattle and lash. - Revised bushing (thicker) &amp; - Guide rod slot width and OD</p>	6/12/01	6/29/01

Author: Elio Evangelista  
Filename: U137\_2002\_Open\_Issue

Last printed: 07/10/01  
Last Updated: 07/09/01

Created on: 1/24/01  
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P803-044-0 3446

TWT

## U137 PROGRAM OPEN ISSUES

Program: U137/R131

Description: Brake, Accel & ETC Adjustable Pedals

Program Manager: Elio Evangelista

Ford STA: Doug Veit / Bill Gealer

P/N: 2C34 2450 EB (026T-G0128); 2C34 2450FB (026T-G0129); 2C34 9F836 CB (026T-G0133); 2C34 9726 CC (026T-G0132);  
2C34 9G662 AB (026T-G0142); 2C34 9G662 BC (026T-G0143) 2C34 9726 EA (026T-G0166)

Ford Engineer: Lisa Petrauskas

TFX Engineer: Greg Braniff

Account Manager: Conrad Niester

Quality Engineer: Ben Franklin

Issue #	Description	Date Opened	Responsible	Update / Status	Date Due	Date Closed
			E. Evangelista	<i>Tryouts conducted at KTP. Noted improvements. See data provided from Jack Mingo.</i> 2) Provide data to Ford on latest changes (brushing, slot width) to determine difference in "W3" part that did not perform as well on cantile 3) Verify that difference is in pivot on "W3" parts and replace pivot with new pivot built off revised orbital form operation. 4) "Worn-Out" test pedal cycling per ES YL 14-2450 AA, section 2. Testing complete, parts being measured for lash. 5) Post "Worn-Out" test Lash per ES YL14-2450-AA, section 3. 6) Vibration test per ES YL14-2450-AA, section 14 @ 12 +/- 3 Hz 7) In vehicle evaluation on "Worn-Out" parts (item 20-4) 4-poster evaluation on "Worn-Out" parts (item 20-4)	7/10/01	
					7/11/01	
					7/3/01	7/5/01
					7/10/01	
					TBD	
					7/13/01	
					7/13/01	
21	Tang length issue	7/9/01	G. Braniff M. Foreman	Fall out at welders on drive tang length. Added 100% check at welders to ensure that parts not used, concern on amount of fallout and permanent fix	TBD	
22						
23						
24						
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27						

PERS-844-R 3448

Author: Elio Evangelista  
 Filename: U137\_2002\_Open\_Issue

Last printed: 07/10/01  
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Created on: 1/24/01  
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## U137 PROGRAM - OPEN ISSUES

**Program:** U137/P131

**Description:** Brake, Accel & ETC Adjustable Pedals

**Program Manager:** Elio Evangelista

**Ford STA:** Doug Veit / Bill Gealar

**P/N:** 2C34 2450 EB (026T-G0128); 2C34 2450FB (026T-G0129); 2C34 9F836 CB (026T-G0133); 2C34 9726 CC (026T-G0132);

2C34 9G662 AB (026T-G0142); 2C34 9G662 BC (026T-G0143) 2C34 9726 EA (026T-G0166)

**Ford Engineer:** Lisa Petruskas

**TFX Engineer:** Greg Bruff

**Account Manager:** Conrad Niester

**Quality Engineer:** Ben Franklin

Issue #	Description	Date Opened	Responsible	Update / Status	Date Due	Date Closed
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	PPAP Promise Data	6/6/01	B. Franklin/ E. Evangelista	2C34 2450 EB - Adjustable Brake Assy - Gas 2C34 2450 FB - Adjustable Brake Assy - Diesel 2C34 9F836 CB - Adjustable Accelerator Assy - Diesel (ETC) 2C34 9726 CC - Adjustable Accelerator Assy - Gas (S.A.L.) 2C34 9G662 AB - Motor Assy - Adjustable Pedals - Non Memory 2C34 9G662 BC - Motor Assy - Adjustable Pedals - Memory - Ref Concern C11237959, Alarm A11237993 2C34 9726 EA - Adjustable Accelerator Assy - Gas (6.8 L.) - Ref Concern C11232702	7/2/01 7/2/01 7/2/01 7/2/01 7/2/01 7/12/01 8/20/01	
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**Author:** Elio Evangelista  
**Filename:** U137\_2002\_Open\_Issues

**Last printed:** 07/10/01  
**Last Updated:** 07/09/01

**Created on:** 1/24/01  
**Page 1 of 5**

PER3-844-8 2488

## U137 PROGRAM - OPEN ISSUES

Program: U137/P131

Description: Brake, Accel & ETC Adjustable Pedals

Program Manager: Elio Evangelista

Ford STA: Doug Vait / Bill Gealer

P/N: 2C34 2450 EB (026T-G0128); 2C34 2450FB (026T-G0129); 2C34 9F836 CB (026T-G0133); 2C34 9726 CC (026T-G0132);  
2C34 9G662 AB (026T-G0142); 2C34 9G662 BC (026T-G0143) 2C34 9726 EA (026T-G0166)

Ford Engineer: Lisa Petrauskas

TFX Engineer: Greg Braniff

Account Manger: Conrad Nicazer

Quality Engineer: Ben Franklin

Issue #	Description	Date Opened	Responsible	Update / Status	Date Due	Date Closed
10	Adjustable Pedal - Accel Gas (026T-G0132) Ford P/N 2C34 9726 CC Ref Concern C11232702	5/31/01	M. Foreman	Add error proofing device to line that ensures the correct spring is in assembly (Gas vs. ETC). Pedal arm should "fall" forward under own weight.	8/12/01	
12	Adjustable Pedal - Accel Gas (026T-G0166) Ford P/N 2C34 9726 BA Ref Concern C11232702	5/31/01	G. Braniff	Pedal life cycle test to measure spring life - PV testing. Parts rec'd for testing start 6/4/01. Testing complete, switching spring to new version, new spring required.	6/11/01	6/11/01
			L. Petrauskas	FMVSS testing at Ford (FMVSS 124). Per meeting 6/30/01, testing to start at room temp first, cold testing scheduled for Friday 6/8/01. Testing based on 1" spring design did not pass.	6/5/01	6/8/01
			L. Petrauskas	New FMVSS testing with changed springs to pedal and throttle body.	6/14/01	6/25/01

Author: Elio Evangelista  
Filename: U137\_2802\_Open\_Issue

Last printed: 07/10/01  
Last Updated: 07/09/01

Created on: 1/24/01  
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PERC-044-9 34931

## U137 PROGRAM - OPEN ISSUES

**Program:** U137/P131

**Description:** Brake, Accel & ETC Adjustable Pedals

**Program Manager:** Elio Evangelista

**Ford STA:** Doug Veit / Bill Gealer

**P/N:** 2C34 2450 EB (026T-G0128); 2C34 2450FB (026T-G0129); 2C34 9F836 CB (026T-G0133); 2C34 9726 CC (026T-G0132);  
2C34 9G662 AB (026T-G0142); 2C34 9G662 BC (026T-G0143) 2C34 9726 EA (026T-G0166)

**Ford Engineer:** Lisa Petrauskas

**TFX Engineer:** Greg Bramiff

**Account Manger:** Conrad Nicster

**Quality Engineer:** Ben Franklin

Issue #	Description	Date Opened	Responsible	Update / Status	Date Due	Date Closed
			G. Bramiff	Testing complete and passed FIMVSS. Drive evaluation at KTF 6/29/01 approved pedal feel. Pedal life cycle test to ensure spring life - PV testing.	8/13/01	
13	Adjustable Pedals - ALL	5/31/01	G. Bramiff	1) PV testing - Parts built for FUE build - Ref DVP&R. 1 of 6 accel cables did not pass PV testing. Cable replaced and testing continued. Full completion of current testing 6/7/01. Testing complete 2) PV testing - New spring for APS - Testing for spring life only. (Used on Accelerator Assembly 2C34 9726CC) - 3) PV testing - Repeat Life Cycle for new cable length. (Used on Memory motor assembly 2C34 9G662 BC). Parts tested must be off run@rain. Testing complete - See DVP&R 4) Accelerator Assembly for 6.8 L - Ford P/N 2C34 9726 EA (026T-G0166) - Ref Concern C11232702 - PV testing on new spring to ensure spring life.	6/4/01 6/11/01 7/10/01 8/13/01	6/11/01 6/11/01 7/09/01

REC-044-A 345Z

Author: Elio Evangelista  
Filename: U137\_2002\_Open\_Issue

Last printed: 07/10/01  
Last Updated: 07/09/01

Created on: 1/24/01  
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## U137 PROGRAM - OPEN ISSUES

Program: U137/P131

Description: Brake, Accel & ETC Adjustable Pedals

Program Manager: Elio Evangelista

Ford STA: Doug Veit / Bill Gealer

P/N: 2C34 2450 EB (026T-G0128); 2C34 2450FB (026T-G0129); 2C34 9P836 CB (026T-G0133); 2C34 9726 CC (026T-G0132);  
2C34 9G662 AH (026T-G0142); 2C34 9G662 BC (026T-G0143) 2C34 9726 EA (026T-G0166)

Ford Engineer: Lisa Petrauskas

TFX Engineer: Greg Brandiff

Account Manger: Conrad Niester

Quality Engineer: Ben Franklin

Issue #	Description	Date Opened	Responsible	Update / Status	Date Due	Date Closed
15	Ramp Rate - Motors Ford P/N 2C34 9G662 AB  2C34 9G662 BC Concern # 11237959, Alert A11237993	6/1/01	B. Franklin/M. Poroman	Scheduled 6/6/01. (Used on Accelerator Assembly 2C34 9726CC) Date changed to 6/5/01. Ramp rate complete - Avg. 34 parts/hour (target 40 parts/hr) Date changed to 7/11/01 (based on cable issue & PV testing)	6/6/01  7/11/01	6/5/01
17	Accel Cable - Memory Motor Concern # 11237959, Alert A11237993	6/1/01	G. Brandiff J. Mango J. Mango  B. Franklin	Did not pass PV testing. Revising to 1PP design (length+ 4mm for IB build). (Used on Memory Motor Assembly 2C34 9G662 BC). Parts are to be off production equipment. - Need Alert to retrofit parts at KTP. Alert # A11237993 - Retrofit parts at KTP. Initial batch of cables received. - Tryout at KTP to ensure no build issues. IB complete no reported issues. - Memory Motor PPAP - PPAP will include testing	6/4/01 6/8/01 6/8/01  7/12/01	6/4/01 6/8/01 6/8/01
18	Motor Noise	6/4/01	G. Brandiff, R. Mandruff	Conduct DOE # 3 Mandruff to provide in-vehicle data of audit cars by	6/15/01	
20	Rattle/Lash concerns Concern C11231780	6/4/01	G. Brandiff	1) Changes to following components to improve rattle and lash. - Revised bushing (thicker) & - Guide rod slot width and OD	6/12/01	6/29/01

Author: Elio Evangelista  
Filename: U137\_2002\_Open\_Issue

Last printed: 07/10/01  
Last Updated: 07/09/01

Created on: 1/24/01  
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PERS-044-R-3483

## U137 PROGRAM OPEN ISSUES

Program: U137/P131

Description: Brake, Accel & ETC Adjustable Pedals

Program Manager: Elio Evangelista

Ford STA: Doug Veit / Bill Gealer

P/N: 2C34 2450 EB (026T-G0128); 2C34 2450FB (026T-G0129); 2C34 9F836 CB (026T-G0133); 2C34 9726 CC (026T-G0132);  
2C34 9G662 AB (026T-G0142); 2C34 9G662 BC (026T-G0143) 2C34 9726 EA (026T-G0166)

Ford Engineer: Lisa Petrukas

TFX Engineer: Greg Braniff

Account Manager: Conrad Nicster

Quality Engineer: Ben Franklin

Issue #	Description	Date Opened	Responsible	Update / Status	Date Due	Date Closed
			E. Evangelista	<i>Tryouts conducted at KTF. Noted improvements. See data provided from Jack Mingo.</i> 2) Provide data to Ford on latest changes (bushing, slot width) to determine difference in "W3" part that did not perform as well on rattle 3) Verify that difference is in pivot on "W3" parts and replace pivot with new pivot built off revised orbital form operation. 4) "Wear-Out" test pedal cycling per ES YL 14-2450 AA, section 2. <i>Tearing complete, parts being measured for lash.</i> 5) Post "Wear-Out" test Lash per ES YL14-2450-AA, section 3. 6) Vibration test per ES YL14-2450-AA, section 14 @ 12+- 3 Hz 7) In vehicle evaluation on "Worn-Out" parts (item 20-4) 4-point evaluation on "Worn-Out" parts (item 20-4)	7/10/01	
21	Tang length issue	7/9/01	G. Braniff M. Foreman	Fall out at welders on drive tang length. <i>Added 100% check at welders to ensure that parts not used, concern on amount of fallow and permanent fix</i>	TBD	
22						
23						
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27						

PERS-011-B-3424

Author: Elio Evangelista  
 Filename: U137\_2002\_Open\_Issue

Last printed: 07/10/01  
 Last Updated: 07/09/01

Created on: 1/24/01  
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## U137 PROGRAM OPEN ISSUES

Program: U137/P131

Description: Brake, Accel & ETC Adjustable Pedals

Program Manager: Elio Evangelista

Ford STA: Doug Veit / Bill Gesler

P/N: 2C34 2450 EB (026T-G0128); 2C34 2450FB (026T-G0129); 2C34 9F836 CB (026T-G0133); 2C34 9726 CC (026T-G0132);

2C34 9G662 AB (026T-G0142); 2C34 9G662 BC (026T-G0143) 2C34 9726 BA (026T-G0166)

Ford Engineer: Lisa Petruskas

TFX Engineer: Greg Braniff

Account Manager: Conrad Nicster

Quality Engineer: Ben Franklin

Issue #	Description	Date Opened	Responsible	Update / Status	Date Due	Date Closed
	PPAP Promise Data	6/6/01	B. Franklin/ E. Evangelista	2C34 2450 EB - Adjustable Brake Assy - Gas 2C34 2450 FB - Adjustable Brake Assy - Diesel 2C34 9F836 CB - Adjustable Accelerator Assy - Diesel (ETC) 2C34 9726 CC - Adjustable Accelerator Assy - Gas (5.4 L) 2C34 9G662 AB - Motor Assy - Adjustable Pedals - Non Memory 2C34 9G662 BC - Motor Assy - Adjustable Pedals - Memory - Ref Concern CI 1237959, Alert A11237993 2C34 9726 BA - Adjustable Accelerator Assy - Gas (6.8 L) - Ref Concern CI 1237702	7/2/01 7/2/01 7/2/01 7/2/01 7/2/01 7/13/01 8/20/01	
1	Brake Guide Rod (026T-G4249)	5/31/01	J. Barlow	Problem has not submitted PPAP package to Teleflex. Parts received at correct level. Rec'd package 6/7/01, being reviewed. (Used on Brake Assemblies 2C34 2450 EB/FB). Approved 6/11/01	6/4/01	6/11/01
2	Brake Brackets (026T-G4134 & 4150)	5/31/01	D. Veit B. Franklin	Cannot get PPAP package from KSR. (Used on Brake Assemblies 2C34 2450 EB/FB) Ford STA to verify KSR processes. Rec'd update from Doug Veit, has rec'd and approved KSR package. Teleflex to layout parts and "reverse" PPAP package. Part layout complete. Issue with side hole used for wire harness, part not matching print but same bracket as used on fixed pedals. Confering with KSR as to correct dim. Revised print to reflect part. Ford sign-off. Approved	6/8/01 6/8/01	6/4/01 6/11/01
3	Accelerator Guide Rod (026T-G4258)	5/31/01	J. Barlow	Problem has not submitted PPAP package to Teleflex. Parts received at correct level. (Used on Accelerator Assemblies 2C34 9726CC & 9F836CB) Rec'd package 6/4/01, being reviewed. Approved 6/11/01	6/4/01	6/11/01
4	Wire harness (026T-G4870)	5/31/01	B. Franklin	Yezaki has not submitted PPAP package to Teleflex. Parts received at correct level. (Used on Memory Motor Assembly 2C34 9G662 BC) Rec'd package 6/3/01, being reviewed. Package rejected, layout data to old level. Updated package requested. Move due date to 6/15/01 since will not PPAP till 7/12/01. Rec'd updated package 6/11/01, approved.	6/15/01	6/11/01

Author: Elio Evangelista  
Filename: U137\_1002\_Open\_Issue

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P.08/12

PART 044-9-2001

## U137 PROGRAM - OPEN ISSUES

Program: U137/P131

Description: Brake, Accel & ETC Adjustable Pedals

Program Manager: Elio Evangelista

Ford STA: Doug Veit / Bill Gehler

P/N: 2C34 2450 BB (026T-G0128); 2C34 2450PB (026T-G0129); 2C34 9F836 CB (026T-G0133); 2C34 9726 CC (026T-G0132);  
2C34 9G662 AB (026T-G0142); 2C34 9G662 BC (026T-G0143) 2C34 9726 EA (026T-G0166)

Ford Engineer: Lisa Petruskas

TPK Engineer: Greg Braniff

Account Manager: Conrad Nicster

Quality Engineer: Ben Franklin

Issue #	Description	Date Opened	Responsible	Update / Status	Date Due	Date Closed
5	Motor Assy w/ Memory (026T-G0075)	5/31/01	B. Franklin	Peterson has not submitted PPAP package to Teleflex. Parts received at correct level. (Used on Memory Motor Assembly 2C34 9G662 BC) Rec'd package 6/1/01, being reviewed. Approved.	6/4/01	7/1/01
6	ETC Spring (026T-G0139)	5/31/01	B. Franklin	Peterson has not submitted PPAP package to Teleflex. Parts received at correct level. Rec'd package 6/4/01, Approved (Used on Accelerator Assembly 2C34 9F836CB)	6/8/01	6/11/01
7	Intermediate Housing (026T-G0135)	5/31/01	M. Funk	Teleflex-Lyons has not submitted PPAP package to Teleflex-Kendallville. Parts are approved in system under 016T-G0233. Lyons to forward package (Used on Accelerator Assembly 2C34 9726CC) Rec'd package 6/4/01, being reviewed. Approved	6/4/01	6/11/01
8	Gas Accel. Spring (026T-G0014)	5/31/01	B. Franklin	New parts in system. Parts received without PPAP package due to timing. Rec'd package 6/8/01, Approved (Used on Accelerator Assembly 2C34 9726CC)	6/8/01	6/11/01
9	Adjustable Pedal - Accel Gas (026T-G0132) Ford P/N 2C34 9726 CC	5/31/01	B. Franklin	Add amendment to control plan for 100% visual check to ensure correct spring used. Pedal arm should "fall" forward under own weight. This process step added until permanent error proofing added to line.	6/1/01	6/1/01
10	Adjustable Pedal - Accel Gas (026T-G0132) Ford P/N 2C34 9726 CC Ref Chassis CI 1232702	5/31/01	M. Poromaa	Add error proofing device to line that ensures the correct spring is in assembly (Gas vs. ETC). Pedal arm should "fall" forward under own weight.	8/12/01	
12	Adjustable Pedal - Accel Gas (026T-G0166) Ford P/N 2C34 9726 EA Ref Chassis CI 1232702	5/31/01	G. Braniff  L. Petruskas  L. Petruskas	Pedal life cycle test to ensure spring life - PV testing. Parts rec'd for testing start 6/4/01. Testing complete, switching spring to new version, new spring required. FMVSS testing at Ford (FMVSS 124). Per meeting 6/1/01, testing to start at noon temp first, cold testing scheduled for Friday 6/8/01. Testing based on 1" spring design did not pass. New FMVSS testing with changed springs to pedal and throttle body.	6/11/01  6/3/01  6/14/01	6/11/01  6/8/01  6/29/01

Author: Elio Evangelista  
Filename: U137\_2002\_Open\_Issues

Last printed: 07/10/01  
Last Updated: 07/09/01

Created on: 1/24/01  
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P.09/12

P03-044-9-2400

## U137 PROGRAM OPEN ISSUES

Program: U137P131

Description: Brake, Accel & ETC Adjustable Pedals

Program Manager: Elie Evangelista

Ford STA: Doug Velt / Bill Geisler

P/N: 2C34 2450 EB (026T-G0128); 2C34 2450FB (026T-G0129); 2C34 9FB36 CB (026T-G0133); 2C34 9726 CC (026T-G0132);  
2C34 9G662 AB (026T-G0142); 2C34 9G662 BC (026T-G0143) 2C34 9726 EA (026T-G0166)

Ford Engineer: Lisa Petruskas

TFX Engineer: Greg Bramiff

Account Manager: Conrad Nicster

Quality Engineer: Ben Franklin

Issue #	Description	Date Opened	Responsible	Update / Status	Date Due	Date Closed
			G. Bramiff	Testing complete and passed PMVSS. Drive minimization at KTP 6/29/01 approved pedal feel. Pedal life cycle test to ensure spring life - PV testing.	8/13/01	
13	Adjustable Pedals - ALL	5/31/01	G. Bramiff	1) PV testing - Parts bulk for PLR build - Ref DVP&R. 1 of 6 accel cables did not pass PV testing. Cable replaced and testing continued. Full completion of current testing 6/7/01. Testing complete 2) PV testing - New spring for APS - Testing for spring life only. (Used on Accelerator Assembly 2C34 9726CC) - 3) PV testing - Repeat Life Cycle for new cable length. (Used on Memory motor assembly 2C34 9G662 BC). Parts tested round to off running Testing complete - See DVP&R 4) Accelerator Assembly for ERL - Ford P/N 2C34 9726 EA (026T-G0166) - Ref Cassen CI 1237702 - PV testing on new spring to ensure spring life.	6/4/01 6/11/01 7/10/01 8/13/01	6/11/01 6/11/01 7/09/01
14	Run@Rate - Pedals Ford P/N's 2C34 2450 EB/FB 2C34 9726 CC 2C34 9FB36 CB	6/7/01	B. Franklin/M. Foreman	Rate goal: 40 parts/hour Run@Rate stopped after 1 hour and 45 minutes by Bill Geisler. Average Brake rate achieved in that time: 41 parts/hour Average Accelerator rate achieved in that time: 34 parts/hour Run stopped because several stations required excessive maintenance support to keep line running. New Run@Rate date. Run scheduled for 6/11/01. Completed run. Passed rate but 8-hour requirement in 6 1/2 hours. Some machine problems, SD provided. New run to be scheduled on new design level for Accels Run@Rate - Run 2 shifts to verify robustness of line NOTE - THESE NUMBERS INCLUDE ONLY PARTS THAT PASSED END OF LINE TESTS AND WERE PACKED. 2C34 2450 EB - avg. 15 parts/hour 2C34 2450 FB - avg. 6 parts/hour 2C34 9FB36 CB - avg. 54 parts/hour 2C34 9726 CC - avg. 67 parts/hour	6/11/01 6/29/01	6/11/01 6/29/01

Author: Elie Evangelista  
Filename: U137\_2003\_Open\_Issue

Last printed: 07/10/01  
Last Updated: 07/09/01

Created on: 1/24/01  
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FORD-44-A-3457

JUL 18 2001 16:17 FR

TO 9190242921AS P.10/12

## U137 PROGRAM - OPEN ISSUES

**Program:** U137/P131

**Description:** Brake, Accel & ETC Adjustable Pedals

**Program Manager:** Elio Evangelista

**Ford STA:** Doug Veit / Bill Gesler

**P/N:** 2C34 2450 BB (026T-G0128); 2C34 2450FB (026T-G0129); 2C34 9P836 CB (026T-G0133); 2C34 9726 CC (026T-G0132);  
2C34 9G662 AB (026T-G0142); 2C34 9G662 BC (026T-G0143) 2C34 9726 EA (026T-G0166)

**Ford Engineer:** Lisa Petruskas

**TFX Engineer:** Greg Braniff

**Account Manager:** Conrad Niester

**Quality Engineer:** Ben Franklin

Issue #	Description	Date Opened	Responsible	Update / Status	Date Due	Date Closed
15	Run@Rate - Motor Ford P/N 2C34 9G662 AB  2C34 9G662 BC Concern # 11237959, Alert A11237993	6/1/01	B. Franklin/M. Foreman	Scheduled 6/6/01. (Used on Accelerator Assembly 2C34 9726CC) Date changed to 6/5/01. Run@Rate complete - Avg. 84 parts/hour (target 40 parts/hr) Date changed to 7/11/01 (brasil on cable issue & PV testing)	6/5/01  7/11/01	6/5/01
16	Fasco Motor	6/1/01	J. Bazlow	Teleflex STA. to go to Fasco to verify that similar issue, as U151 will not happen to this motor. (Used on Motor Assembly 2C34 9G662 AB/BC) Jim Barlow (Teleflex STA) contacted Fasco and has rec'd and started reviewing BD's. Jim Barlow conducted review at Fasco on 6/5/01 - reviewed processes and confirmed action items on BD submitted by Fasco, report to follow. BD provided to Ford.	6/8/01	6/8/01
17	Accel Cable - Memory Motor Concern # 11237959, Alert A11237993	6/1/01	G. Braniff J. Mango J. Mango B. Franklin	Did not pass PV testing. Remaining to LFP design. length+ 4mm for IB build. (Used on Memory Motor Assembly 2C34 9G662 BC). Parts are to be off production equipment. - Need Alert to retrofit parts at KTP. Alert # A11237993 - Retrofit parts at KTP. Initial batch of cables received. - Tryout at KTP to ensure no build issues. IB complete no reported issues. - Memory Motor PFAP - PFAP will include testing	6/4/01 6/8/01 6/8/01 7/12/01	6/4/01 6/8/01 6/8/01
18	Motor Noise	6/4/01	G. Braniff, R. Mundroff	Conduct DOB # 3 Mundroff to provide in-vehicle data of such data by	6/15/01	
19	Step Over difference Adjustable vs. fixed	6/4/01	G. Braniff, J. Mango	Andy Volker to verify design intent - Data provided to Ford on Step Over for Final and Adj. Mango to verify differences in vehicle - Data provided to Ford on measurements taken in vehicles during NB build	6/5/01 6/6/01	6/5/01 6/18/01
20	Ratchet/Lash concern Concern C11231785	6/4/01	G. Braniff	1) Changes to following components to improve rattle and lash. - Revised bushing (thicker) & - Guide rod slot width and OD	6/12/01	6/25/01

Author: Elio Evangelista  
Filename: U137\_2002\_Open\_Issue

Last printed: 07/10/01  
Last Updated: 07/09/01

Created on: 1/24/01  
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TO 915024292145 P.11/12

PERC-04-A 3485

## U137 PROGRAM OPEN ISSUES

Program: U137/P131

Description: Braks, Accel & BTC Adjustable Pedals

Program Manager: Elia Evangelista

Ford STA: Doug Veit / Bill Gerler

P/N: 2C34 2450 BB (026T-G0128); 2C34 2450FB (026T-G0129); 2C34 9F836 CB (026T-G0133); 2C34 9726 CC (026T-G0132);  
2C34 9G662 AB (026T-G0142); 2C34 9G662 BC (026T-G0143) 2C34 9726 EA (026T-G0166)

Ford Engineer: Lisa Patruskys

TFX Engineer: Greg Braziff

Account Manger: Conrad Niester

Quality Engineer: Ben Franklin

Issue #	Description	Date Opened	Responsible	Update / Status	Date Due	Date Closed
			B. Evangelista	<p><i>Tryouts conducted at KTP. Noted improvements. See data provided from Jack Mingo.</i></p> <p>2) Provide data to Ford on latest changes (bushing, slot width) to determine difference in "W3" part that did not perform as well on rattle</p> <p>3) Verify that difference is in pivot on "W3" parts and replace pivot with new pivot built off revised orbital form operation.</p> <p>4) "Wear-Out" test pedal cycling per ES YL 14-2450 AA, section 2. <i>Testing complete, parts being measured for lash.</i></p> <p>5) Post "Wear-Out" test Lash per ES YL 14-2450-AA, section 3.</p> <p>6) Vibration test per ES YL 14-2450-AA, section 14 @ 12 +/- 3 Hz</p> <p>7) In vehicle evaluation on "Wear-Out" parts (Item 20-4)</p>	7/10/01	7/5/01
21	Tang length tests	7/9/01	G. Braziff M. Perovnan	<p>Fail out at welders on drive tang length. <i>Added 100% check at welders to ensure that parts not used, concern on amount of fallout and permanent fix</i></p>	TBD	
22						
23						
24						
25						
26						
27						

PENG-044-A 3458

see TITL PAGE 12: 68

Author: Elia Evangelista  
Filename: U137\_2002\_Open\_Issues

Last printed: 07/10/01  
Last Updated: 07/09/01

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JUL 19 2001 16:18 FR

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P-12/12

2002 P131/U137 LAUNCH ISSUES



AGENDA

**Powertrain**

6 Speed Manual Transmission For Gas/Job #17 - *AD IB's*  
 2 Brick Catalysts for 6.8L Fed emissions Vehicles/PSW 6/4  
 Ford Champion support at Supplier Engelhart - TBD  
 Ford support at Visteon - TBD

**CHAMPION**

D. Schuetzler  
 D. Schuetzler

**Chassis**

Adjustable Pedal throttle spring not returning to position  
 Surging of Vehicle on Speed Control at 70 miles  
 Clearance from Brake-line to Transfer Case

D. Allen  
 M. Cowley  
 M. Cowley

**Electrical**

Multi-Function Switches  
 Retrofit Status of FEU's with certified stock *No parts P131*  
 Noise LH Turn  
 Noise Washer Button  
 Hand Clearance/use of shirn  
 Flash to Pass & LH Turn  
 No right Turn function w/flash to pass  
 8D's requested for quality of parts at FEU  
 Cluster Light Leak  
 Remote Entry

S. Young

**STA**

Top Supplier Discussion/Support *Equal Jackson Mike Page*

S. Young  
 S. Young  
 M. Page

*Telex Key Details*

\*\*\*Note: 5/21 Monday's discussion

**Electrical**

VCP - Status on Sled Test/ES Testing/Trial on 5/19

S. Young

**Powertrain**

Gas/Diesel Calibration - Re-flash update/plan

D. Schuetzler

**Trim**

Survivor clip  
 New Sew Style Seats - PSW/IB Support Plan

L. Southwick  
 L. Southwick

*Adjustable Pedal throttle spring not returning to idle position*

*Remote Entry*

2002 P131/U137 LAUNCH ISSUES



AGENDA

CHAMPION

Powertrain

8 Speed Manual Transmission - workplan  
 2 Brick Catalysts for 6.8L Fed emissions Vehicles/PSW 6/4  
 Ford Champion support at Supplier Engelhart - Ramlos  
 Ford support at Vistacon -- Habda  
 Gas/Diesel Calibration - PSW timing & FEU Retatch Plan

D. Schuetzler  
 D. Schuetzler

Chassis

*Need to work on weekends*

*Drive Out Plan once they*

Adjustable Pedal throttle spring not returning to position - Test Status  
Surging of Vehicle on Speed Control at 70 miles  
 Clearance from Brake-line to Transfer Case - PSW Improve Status  
Footwarmer Duct Revision Status

D. Schuetzler  
 D. Allen  
 M. Cowley  
 M. Cowley, B. Ochoa  
 F. Fusco, B. Ochoa

Electrical

Multi-Function Switches  
 Retrofit Status of FEUs with certified stock P131/U137  
 Noise; Washer Button & LH Turn  
 Hand Clearance/use of shim release status  
 Flash to Pass & LH Turn; flash to pass & no RH turn  
 Remote Entry Lockout - Status  
 VCP - 2002 Launch Status

S. Young

S. Young  
 S. Young

KTP

Vehicle Status to FSS

*D. Sabol*



*Align  
 adj Pedal  
 Speed Cont.  
 Remote  
 M/F 2002*

Fix

*W/RT 6.8L  
 + 5.4L*

*F/U w/RT tripdate before  
 OK if any other near  
 miss.*

*need plan from Reflex  
 getting parts from  
 by Wednes. for testing.*

2002 P131/U137 LAUNCH ISSUES



**AGENDA**

**Powertrain**

6 Speed Manual Transmission - workplan  
2 Brick Catalysts for B.8L Fed emissions Vehicles/PSW 6/4  
Ford Champion support at Supplier Engelhart -- Ramfos  
Ford support at Visteon -- Habba  
Gas/Diesel Calibration -- PSW firing & FEU Refresh Plan

**CHAMPION**

D. Schuetzler  
D. Schuetzler  
  
D. Schuetzler

**Chassis**

Adjustable Pedal throttle spring not returning to position - Test Status  
Surging of Vehicle on Speed Control at 70 miles  
Clearance from Brake-line to Transfer Case - PSW Improve Status  
Footwarmer Duct Revision Status

D. Allen  
M. Cowley  
M. Cowley, B. Ochoa  
F. Fusco, B. Ochoa

**Electrical**

Multi-Function Switches  
Retrofit Status of FEU's with certified stock P131/U137  
Noise; Washer Button & LH Turn  
Hand Clearance/use of shift release status  
Flash to Pass & LH Turn; flash to pass & no RH turn  
Remote Entry Lockout - Status  
VCP - 2002 Launch Status

S. Young

S. Young  
S. Young

**KTP**

Vehicle Status to FSS

D. Sabol



2002 P131 / U137

**Significant Issues Status**

5/18/01

The 2002MY Launch of the P131 and U137 is currently rated **YELLOW**. Following are significant issues being tracked for resolution, verification and support of the Integrated Build, IPD - 6/4/01 by Launch Team Management and Director Forum.

**Powertrain**

**Champion - D. Schuetzler**

- o M6 ZF Transmission Oil Condenser Pressure Build up Fails checkvalves and hydroforms the oil pan. Root Cause: orifice size, resolution 5/24. Manual Trans IB units CANCELLED. M6ZF Transmission to be placed on Added Starter, Job1+30 Days.
- o 6.8L 2-Brick Catalyst - late IB and PSW Support. To support ULEV requirements, 2-Brick Cat will be treated with precious metals by special means, under saleable alert for IB, and will fully PSW by 6/22 for System Fix. Ford STA Champions will support Tier I&II suppliers

**Chassis**

**Champions - D. Allen, M. Crowley, E. Jackson**

- o EOL Idle Failure; Adj Pedal Throttle Spring not returning to position. Chassis Eng performing rig and FM/VSS testing for validation of adding a spring assist to assembly. Test complete 5/23, Resolution Target to support IB IPD
- o FEU Drive Issue of Speed Control Surge at 70mph. Supplier TRW has/is testing vehicles (16 of 23) for root cause. Root Cause expected 5/27. Resolution with parts to be verified on FEU and support IB IPD is target
- o Insufficient clearance of Brake Line to Transfer Case. Resolution will create 19.5mm clearance, PSW planned for 7/27, which is not acceptable. Purchasing and Engineering working with supplier to improve. IB supported off programmable benders.

**Electrical**

**Champion - S. Young**

- o Multifunction Switch - Supplier Delphi-Raton (5) issues at KTP with Fully PSW switches. P131 Certified Stock at KTP 5/18, and U137 5/22. All issues to be verified closed by onsite Delphi Reps, KTP incoming inspection and Engineering Launch Team. To achieve latent U137 WCR walk to wheel clearance, a PM release of a shim for IB/II and offroad full PSW RAC Job1+30
- o Remote Entry Lock Out - Module logic intermittently locks doors, KOBO, FRNDL in park, door closed. Testing in progress, resolution due.
- o FEU Drive Issue of Cluster Light Leak. 8 of 23 vehicle issues. Jury evaluation of carryover design, and PVT confirmation of Customer Dissatisfiers, 5/21

**STA HiImpact Supplier Champions**

**Champion - B. Vajtisek**

- (9) Suppliers have STA Champions identified to be onsite for Run at Rate, and Control plans and packaging verification. VO, VE and KTP reqs to be identified 5/21

**Upcoming Agenda Items**

- VCP carryover release for U137, in place of DVD system
- Revised Footwarmer Duct PSW Timing Plan that resolve no-build of adjustable pedals
- FEU Issue - Survisor Drifts Downward WCR variance
- Gas / Diesel Calibration - PSW timing and FEU reflash plan

Lotusg11

FORM 044-A 3580

AMS

Chief Electronic Systems Design Transmittal

Component Name: PH 1017 (PH 1017) (PH 1017) (PH 1017)  
 Part Number: 2004-01-000-0000-0000-0000  
 Revision: 01.001

Customer / Project:   
 Department:   
 Order: 84-0282036  
 Project No: P18484

Date:   
 Time:   
 Location:   
 Author:   
 Checker:   
 Release:   
 Date:   
 Time:   
 Location:

**Electrical Hardware Requirements Matrix**

Classified Requirement / Part Number	Signal Name	Function Code	Operating Voltage (V)			Operating Current (A) or Voltage (V)					Max (Ohm Load)			Supply Resistance (Ohm)			Operating Duration or Activation Time (sec)			Priority (HS)		Voltage	Min	Description			
			V	V	V	A	V	A	V	A	V	A	V	A	V	A	V	A	V	A	V				A	V	A
A	VREF		4.5V	1.5V	5.0V																					Supply voltage (PCB to panel connector) channel #1	
A	VREF		4.5V	1.5V	5.0V																					Supply voltage (PCB to panel connector) channel #2	
A	VREF		4.5V	1.5V	5.0V																					Supply voltage (PCB to panel connector) channel #3	
B	DRXD		0V	C	5V																					Ground for panel connector channel #1	
B	DRXD		0V	C	5V																					Ground for panel connector channel #2	
B	DRXD		0V	C	5V																					Ground for panel connector channel #3	
Z	PF42		0V	N/A	1.0V																						
Y	PF51		0V	N/A	1.0V																						
X	PF13		0V	N/A	1.0V																						

Operating Temperature (Degrees C)	Min	Typ	Max

EMC Compliance:  MIL-STD-883C

Note: All reported voltages and currents are for NORMAL operation and must include both active and stand-by states.

Page 1 of 1  
 Date Revised: 01/01/2000

Page 1 of 1  
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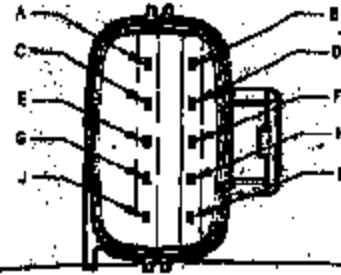
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# U-137 Pin-Out Configuration (2003)

ATTN: DON SILLANPA

FROM: ANTON KALSI



A UNUSED	B UNUSED
C PPS1	D PPS2
E PPS3	F UNUSED
G GROUND	H Vref
J GROUND	K Vref

**OPTION 1**

A UNUSED	B UNUSED
C PPS1	D PPS2
E PPS3	F UNUSED
G Vref	H Vref
J GROUND	K GROUND

**OPTION 2**

A GROUND	B UNUSED
C PPS1	D PPS2
E PPS3	F UNUSED
G Vref	H Vref
J GROUND	K UNUSED

**OPTION 3**

Accepted 5/20/00  
 By Don Sillanpa/Williams Conto  
 Don to do trans.m. Hnd

PERC-044-A 3874

TV

Electrical / Electronic S. na Design Transmittal

9 Pin  
DESIGN

Design/Rev: ETO 8050 100 1000 000  
 Part Number: 8050-0000-00  
 Subsystem:

Rev: 1.0  
 Date: 10/10/00  
 Author: [Redacted]  
 Checker: [Redacted]

Supplier Design:  
 Country:  
 Title:  
 PHONE # / FAX:  
 E-MAIL:

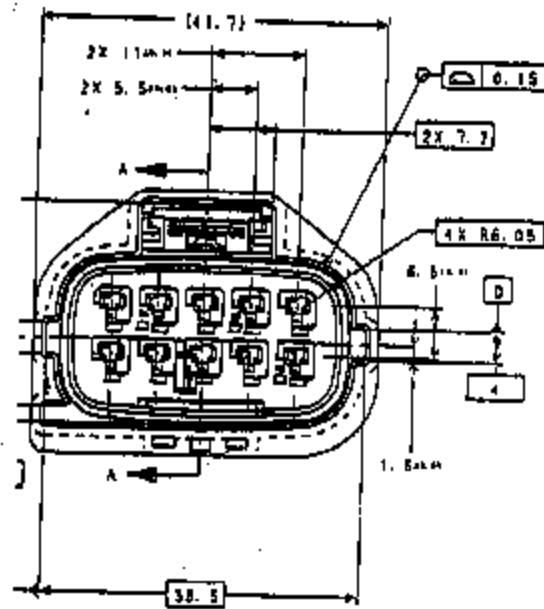
Electrical Hardware Requirements Matrix

Category Number / Pin Number	Signal Name	Functional Class	Quantity Current (A) or Voltage (V)				Dry Cell Load (mAh)		Dry Cells		Response (Hz)		Notes
			Normal		Max		Min	Max	Min	Max	Min	Max	
			A	V	A	V	A	V	Min	Max	Min	Max	
G	APP1												
H	APP2												
A	APP3												
J	APP4												
K	APP5												
L	APP6												
M	APP7												
N	APP8												
O	APP9												
P	APP10												
Q	APP11												
R	APP12												
S	APP13												
T	APP14												
U	APP15												
V	APP16												
W	APP17												
X	APP18												
Y	APP19												
Z	APP20												
AA	APP21												
AB	APP22												
AC	APP23												
AD	APP24												
AE	APP25												
AF	APP26												
AG	APP27												
AH	APP28												
AI	APP29												
AJ	APP30												
AK	APP31												
AL	APP32												
AM	APP33												
AN	APP34												
AO	APP35												
AP	APP36												
AQ	APP37												
AR	APP38												
AS	APP39												
AT	APP40												
AU	APP41												
AV	APP42												
AW	APP43												
AX	APP44												
AY	APP45												
AZ	APP46												
BA	APP47												
BB	APP48												
BC	APP49												
BD	APP50												
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BF	APP60												

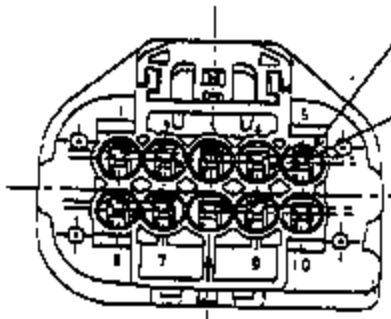
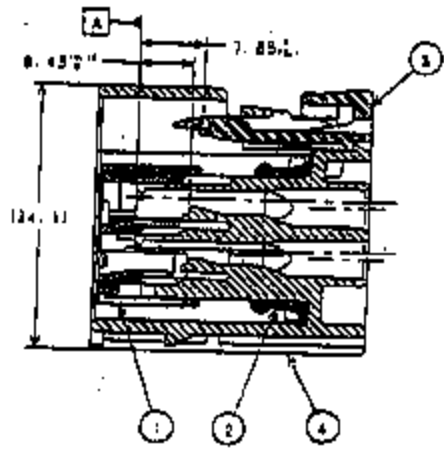
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0.15 A B C-D



REFERENCE - IDP CONNECTOR

PROD-044-0 4004

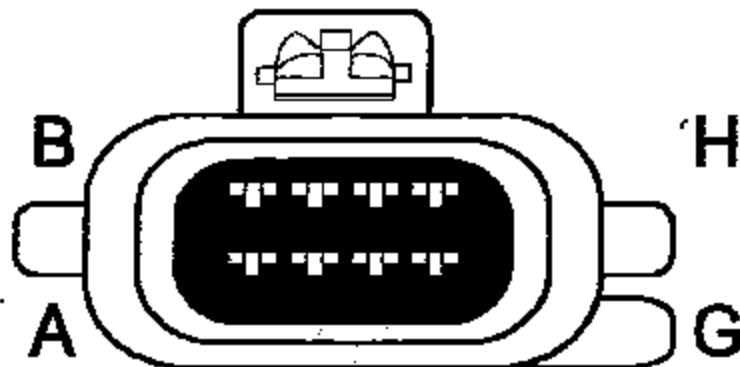
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## 8 - Way Inline Connector



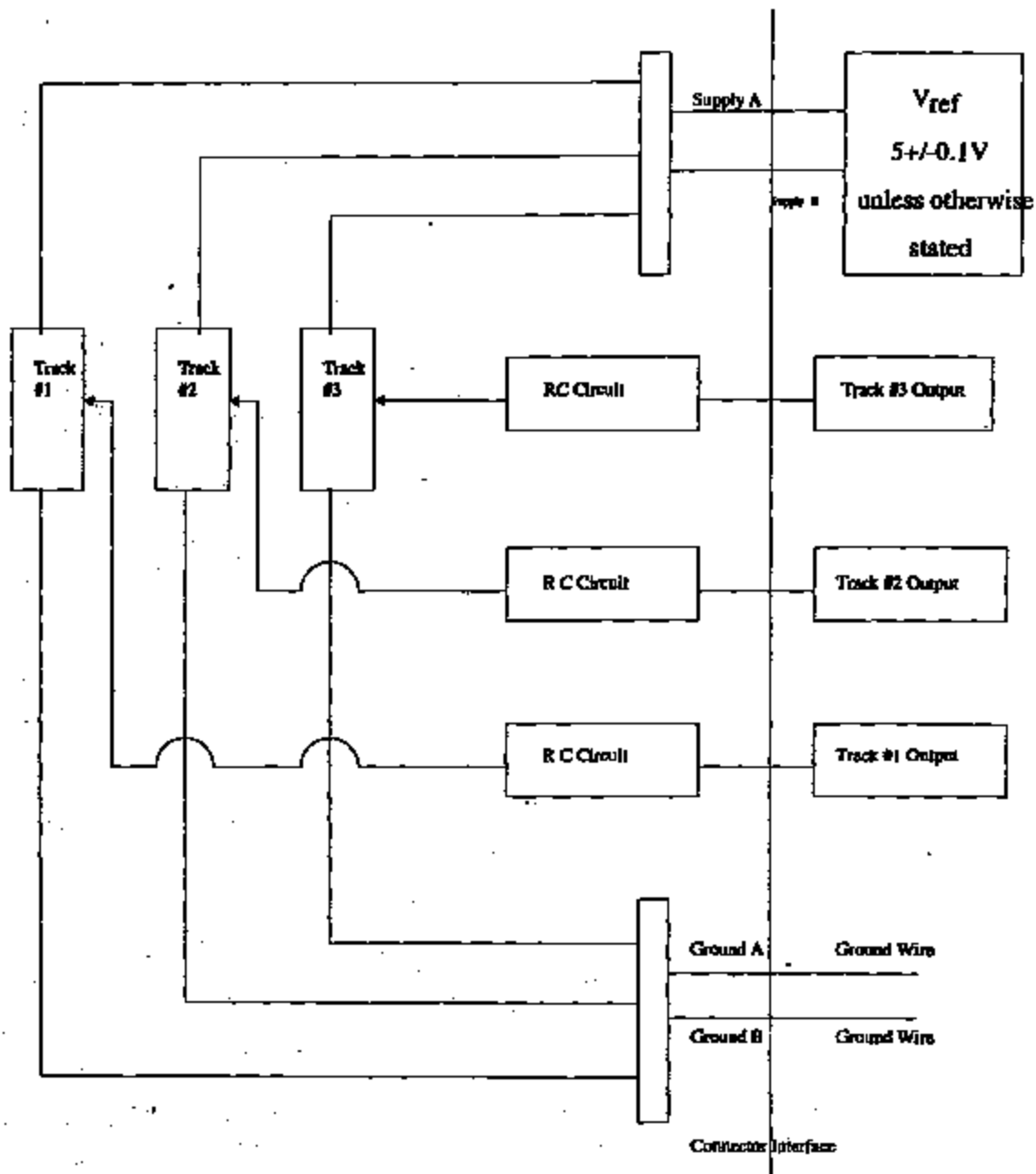
Yasuki Accelerator Pedal Position Sensor (APPS) Connector  
Part number XW4T-14A464-ACA

Looking Into Male Side Connector (Sensor)

### Configuration

A. = PPS2 out	E. = Vref (+)
B. = Ground (-)	F. = Ground (-)
C. = Vref (+)	G. = PPS3 out
D. = PPS1 out	H. = not connected

FOR REFERENCE ONLY



FOR REFERENCE ONLY