



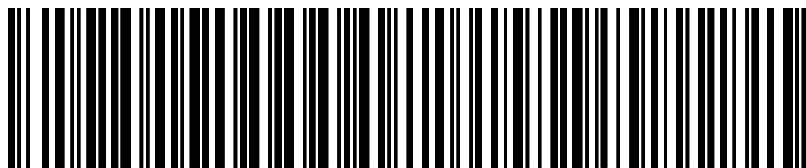
Global 2D Barcode Summary For VAA Distribution January 25, 2010

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Current bar code for trace



(20T)10XXXNA2B4C6D8E



Revised bar code for trace





Reason for Switching to 2D Barcode



Complexity of Global programs requires one global standard

- Global program with cross regionally shipped parts cannot sustain the current variation

Complexity reduction with 2D implementation

- 16 current regional trace specifications being used.
- 34 IT systems that handle trace data today, moving to 8 Global systems to handle future trace data requirements.
- Multiple labels, trace content and label formats being used causing confusion and regulation issues.
 - Example: GME marks with 11 characters, while GM1737 is 16

Industry moving to the new standard

- 2D bar code compliant to the new standard (SAE, ISO, AIAG, ADETTE, JAMA, JAPIA)

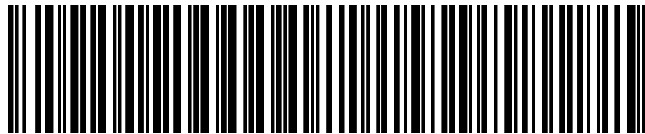




What NOA-196A Changes?



Current Method for Trace



(20T)10XXXXNA2B4C6D8E

- Trace items determined by the GSSLT responsible for the part.
- 1D bar code and label released on part.
- Trace data contained in bar code
- Current IT systems records trace data and VIN for each build

Revised Method for Trace




- Trace items and TRA code assignment process remains the same.
- 2D bar code and label released to part (smaller size, cheaper to read)
- Revised Trace data contained in bar code (more information)
- Revised IT systems to record trace data and VIN for each build



VAA / 3rd Party Impacts



Scope:

- All global Value-Added Assemblers (VAAs) and 3rd Party Assemblers
- Every VAA commodity
- Degree of impact depends on whether the commodity being assembled contains any components with a KCDS code of TRA (Traceability) 

Timing:

- Required by Sept 2010

Potential Impacts:

- New Scanners
- Modified Software / IT System (unique to particular vendor's solution) to communicate information to the assembly plant
<ONLY if TRA component is part of the assembly>
- New Printers
<ONLY if vendor is assembling a TRA module, like Fuel Tanks or Strg Column>

Funding:

- Contract Scope Change / Negotiation between Vendor, 3rd Party Mgr, and Indirect Purchasing.
- Vendor eligible for GM Pricing

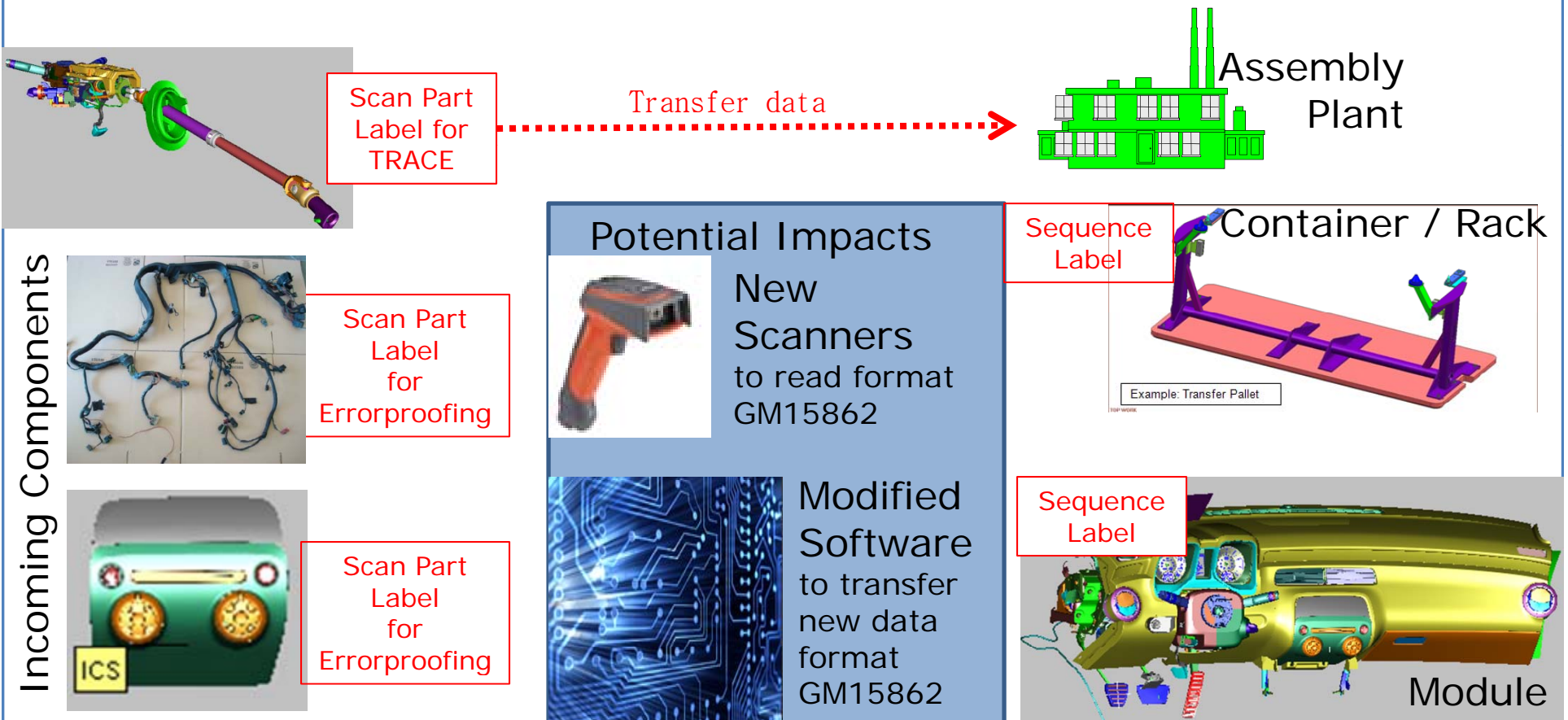


Vendor Impacts (Majority)



Requirements of a Vendor assembling a standard module (ex Cockpit) :

1. Scan the labels on incoming components
2. Generate new sequence label for the outgoing assembly and container / rack
3. Electronically transmit scanned trace data to the assembly plant (if required)



Incoming Components



Scan Part Label for Errorproofing



Scan Part Label for Errorproofing

Potential Impacts



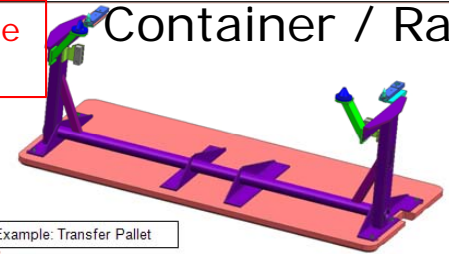
New Scanners to read format GM15862



Modified Software to transfer new data format GM15862

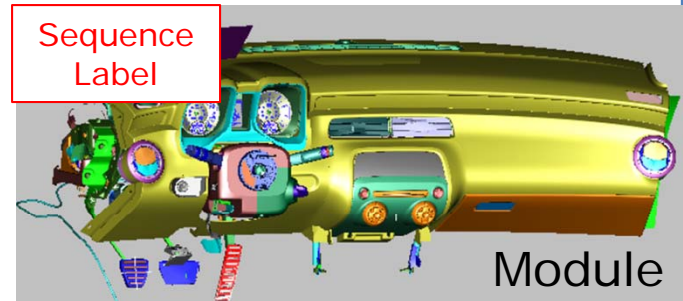
Sequence Label

Container / Rack



Example: Transfer Pallet

Sequence Label



Module



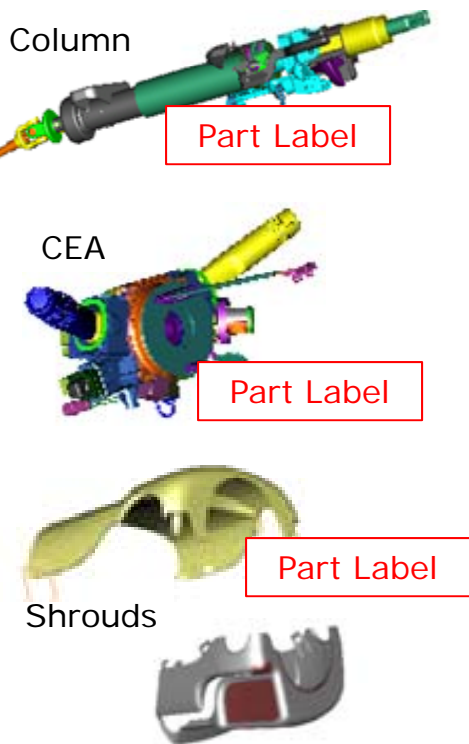
Vendor Impacts (Minority)



Requirements of a Vendor assembling a TRA module (ex Steering Column or Fuel Tank)

1. Scan the labels on incoming components
2. Generate new sequence label for the outgoing container / rack
3. Generate trace label (GMW15862 compliant) for outgoing assembly

Incoming Components



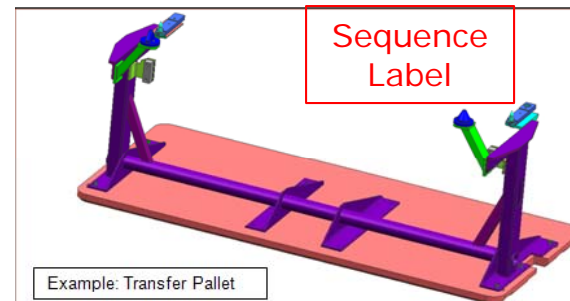
Potential Impacts



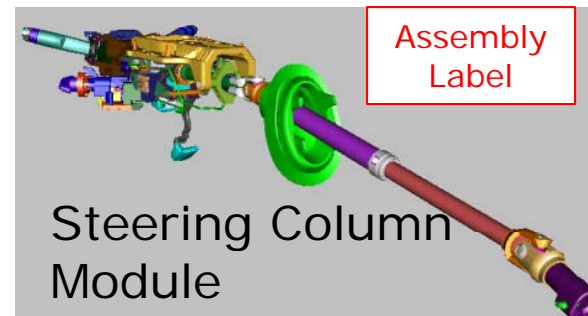
New Scanners to read format GM15862



New Printer to generate GM15862 Assembly Label



Container / Rack







2D Scanners / Imagers

Imager vs. Laser



TYPE	1D 	2D 	MFG	Model #	GM Price \$
Imager Corded	YES	YES	Honeywell HandHeld Products	4800i	\$ 222
Imager Cordless (GM&Q Wireless Infrastructure Compliant)	YES	YES	Honeywell HandHeld Products	4820i	\$ 495
Laser Corded	YES	NO	Motorola Symbol Technologies	LS3408ER2005R LS3408-FZ2005R	\$ 518 \$ 367
Laser Cordless (NOT GM&Q Wireless Infrastructure Compliant)	YES	NO	Motorola Symbol Technologies	P370-SR1211100FBR	\$ 661





Next Steps



FUTURE (Long-Term):

- SOR Appendix H Template being revised; will be added to VAA website, eSOR system, and communicated to assembly plant 3rd Party Managers for future SOR submittals.

Target: end of February; R.Gravish, D.Peters, M.Kapa

INTERIM

- For VAA SORs currently being sourced, decision will be made on case-by-case basis as to when and how to communicate change. (Example Oshawa x350, LGR T/W)

M.Kapa, R. Gravish





Global Traceability List



General List of KCDS Codes for a Vehicle			
UPC	DESCRIPTION	KCDS CODE	
TRACEABILITY - bar code required			
1A 2R	MODULE ASM-INFLATABLE RESTRAINTS (STEERING WHEEL/COLUMN,IP,SEAT,ROOF RAIL ETC.)	TRA	
1A 2R	SENSING AND DIAGNOSTIC MODULES (SDM)	TRA	
6	ENGINE ASM	TRA	
7	TRANSMISSION/TRANSAXLE	TRA	
7E 2	TRANSFER CASE ASM	TRA	
8A	FUEL TANK ASM	TRA	see rollout plan
9A	COLUMN ASM-STRG	TRA	
12	ELECTRONIC CONTROL MODULES (BRAKE AND TRACTION CONTROL, BODY, STABILITY, ETC.)	TRA	
	**NON-LABEL TRACE (SOFTWARE SCAN) ALL MODULES PER GMW4710		



Global Traceability List

KCDS Website:
<http://gmna1.gm.com/kcds/>

