Event Data Recorder Use in Traffic Crash Reconstruction
Level 1
MITSUBISHI Data Retrieval and Analysis

Version November 2019

MITSUBISHI (0.5% market share)

- Mitsubishi originally released an EDR tool based on their dealership tool that included a Panasonic Toughpad. Cost $6380 + tax. Software updates $700/yr?

- The kit is made to work only on vehicles with a functioning electrical system thru the DLC.

- Mitsubishi uses the interior fuse box (ETACS module) as a gateway.   Direct to module cable rigs with an ETACS can be built if module mating connectors can be located.

- Bosch CDR began partial coverage in mid-2019 as the 19th manufacturer – software version 19.0

Mitsubishi EDR Access

Green = Bosch CDR, Yellow/Gold= Mitsu Proprietary Tool

Model		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
	F-00K-108-228		Part MU141170 4/2005 to 8/2011											
Eclipse (PS Platform)					Proprietary EDR Tool		Production ends 8/2011							
Eclipse Spyder Conv.				?	Data in deployments only?									
Endeavor SUV (PS Platform)				?			Production ends 8/2011 replaced by Outlander							
Galant (PS Platform)				?			Production ends 8/2012							
iMiEV	F-00K-			Not sold in US			No gateway module					?		
Lancer				2.3 sec@0.1 deploys only	Part 288 11-12 read w CDR as Caliber		ETACS gateway. Part A307-308 thru 2015			Production				
Lancer Evolution				?	or send to Mitsu					Ends				
Lancer Sportback				?										
Mirage (subcompact)	F-00K-108-228		Not in production				No gateway module							
Outlander SUV (GF platform)	F-00K-108-228	Gen 3 starts in 2012		A208 Read w/CDR as Caliber	A208/A304 mix. A208 5 sec@0.1. Deploy only. Read as 09 Caliber.		ETACS ga 838 Bosch CDR Supported							
Outlander Sport, RVR, ASX						838 Bosch CDR Support								
Raider pickup (Dodge Dakota sister)			Bosch CDR supported cable 228		Not in production									

Mitsubishi EDR's- pre 2013

Information before 2013 is incomplete and compiled from reports from users							
Model		**2007**	**2008**	**2009**	**2010**	**2011**	**2012**
Eclipse (PS Platform)			Part MU141170 4/2005 to 8/2011		Proprietary EDR Tool		Production e
Eclipse Spyder Conv.				?	Data in deployments only?		
Endeavor SUV (PS Platform)				?			Production e
Galant (PS Platform)				?			
iMiEV					Not sold in US		
Lancer				2.3 sec@0.1 deploys only		Part 288 11-12 read w CDR as Caliber	
Lancer Evolution				?		or send to Mitsu	
Lancer Sportback				?			
Mirage (subcompact)				Not in production			
Outlander SUV (GF platform)		Gen 3 starts in 2012		A208 Read w/CDR as Caliber		A208/A304 mix. A208 5 sec@0.1. Deploy only.	
Outlander Sport						Bosch CDR	
Raider pickup (Dodge Dakota sister)			Bosch CDR supported cable 228		Not in production		

Mitsubishi not covered by CDR

- Mitsubishi has assisted law enforcement in the past. If you are law enforcement, ask Mitsubishi for help and see what they say.

- I am only aware of two other organizations who have the Mitsu specific tool besides Ruth Consulting.

- The Mitsubishi software license agreement is VERY restrictive – it excludes renting, or even loaning, the kit to another party.

- There is an instruction guide included on the toughpad.

Mitsubishi EDR Kit

resistant

- **USB 3.0, 2nd USB port & HDMI port**

- **802.11a/b/g/n/ac Wi-Fi**

Proper placement
of VCI-Lite on
backside of
Toughpad®

The MUT-III Tool Package Kit
MITFZG101-EDR includes the following:

	Part No.	QTY
MUT-III Scan Tool Kit	MUT3AMKIT	1
Panasonic Toughpad®		1
Vehicle Communication Interface (VCI-Lite)		1
EDR Software		1
MUT-III Main Harness A-L		1
MUT-III Main Harness B-L		1
Mini USB Cable (S)		1
Attachment Kit - Velcro		2
MUT-III 1 Year Update Subscription		1
	$6,372.00	

Please Note:

- Additional yearly subscriptions, (MITFZG101-EDR-SUB) are available for purchase for the Panasonic FZ-G1 Toughpad®

- MUT-III supports CAN vehicle protocol

- MUT-III updates via update USB Thumb Drive

- Mitsubishi Motors North America reserves the right to change to internet subscription at a later date

Order Today
Toll Free 1.888.727.6672

* In accordance with US regulation, Part 563.

** Can be used on 2011 and 2012 Outlander and 2012 iMiEVs.

Promotion # MI15-177

**Bosch Automotive
Service Solutions**

655 Eisenhower Drive
Owatonna, MN 55060-0995
Phone 888-727-6672
Fax 586-578-7375

Select MUT3-SE (NOT MUT-3)

Select STV

MITSUBISHI EDR TOOL

EULA (end-user license agreement)

Be sure to carefully read and understand all of the rights and restrictions described in this End User License Agreement ("EULA"). You will be asked to review and either accept or not accept the terms of the EULA.

This product will not set up on your computer unless or until you accept the terms of the EULA.

IMPORTANT NOTICE:
Mitsubishi Motors Corporation ("MMC") urges end users to use the latest production release of the software. Using the latest version of the software is the best way to ensure that retrieved data has been translated using the most current information provided by MMC.

Notice:
An Event Data Recorder ("EDR") is an on-board mechanism capable of monitoring, recording, storing and later displaying certain pre-crash, crash and post-crash data from a vehicle. The data captured on an EDR is the property of the vehicle owner and should not be accessed by anyone without owner consent or a court order. Please consult applicable laws/regulations for your state and obtain the necessary consent before retrieving EDR data.
MMC takes no responsibility for any problems with or damage to the EDR data experienced as a result of using this manual and the download tool.

Do you agree with the above conditions?

[Agree]   [Don't Agree (cancel)]

Choose System Select

System select – select Vehicle Description

Find Vehicle Description plate on passenger B pillar front door side

Note Model Code & eng/trans codes

Erase prior vehicle selection

Insert VIN first some will populate
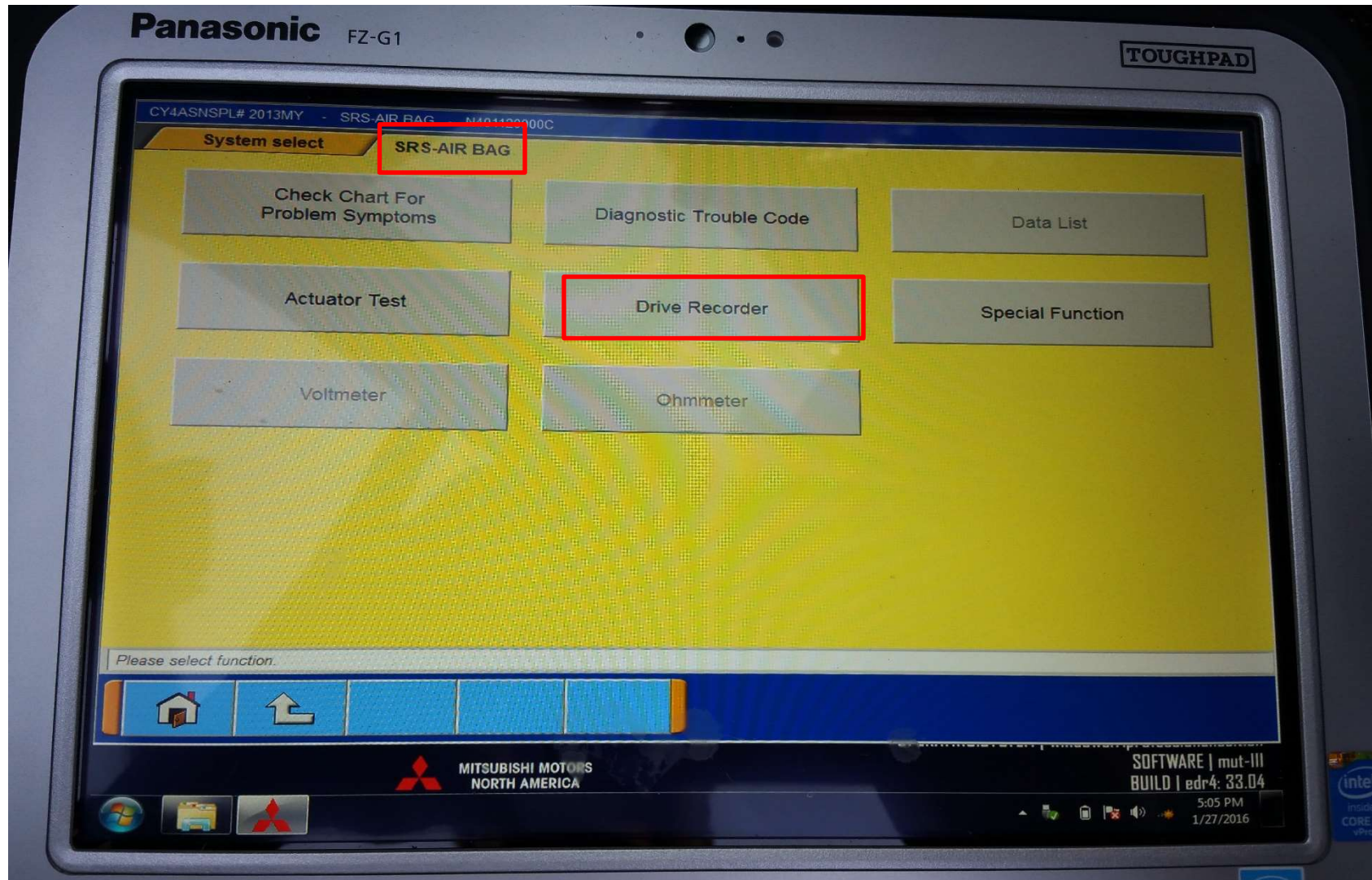# Enter remainder then accept
May auto populate from ECM

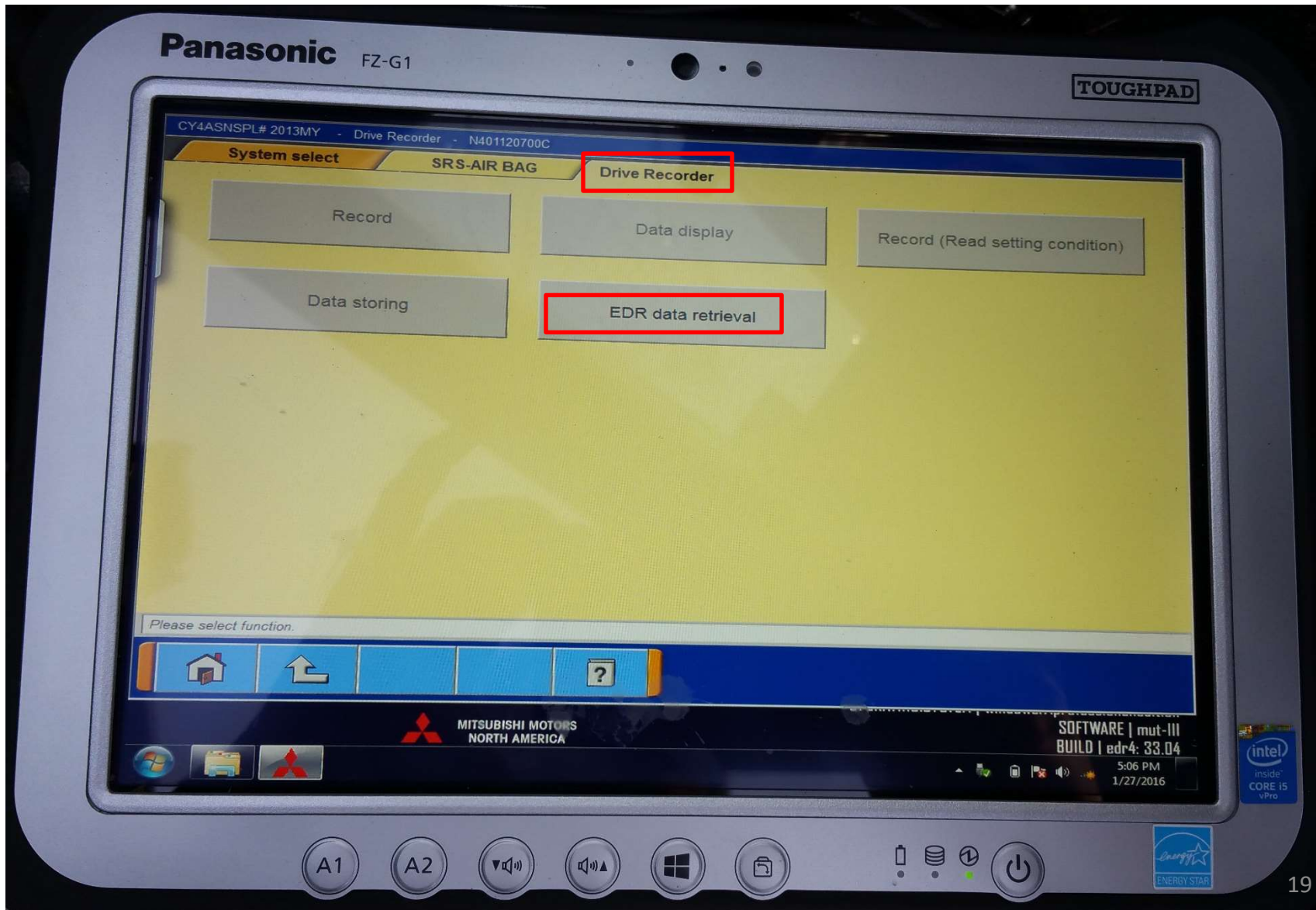# Debug if necessary. 12V needed in DLC & Ignition to ACM. Make sure you are in MUT3-SE not MUT3 software
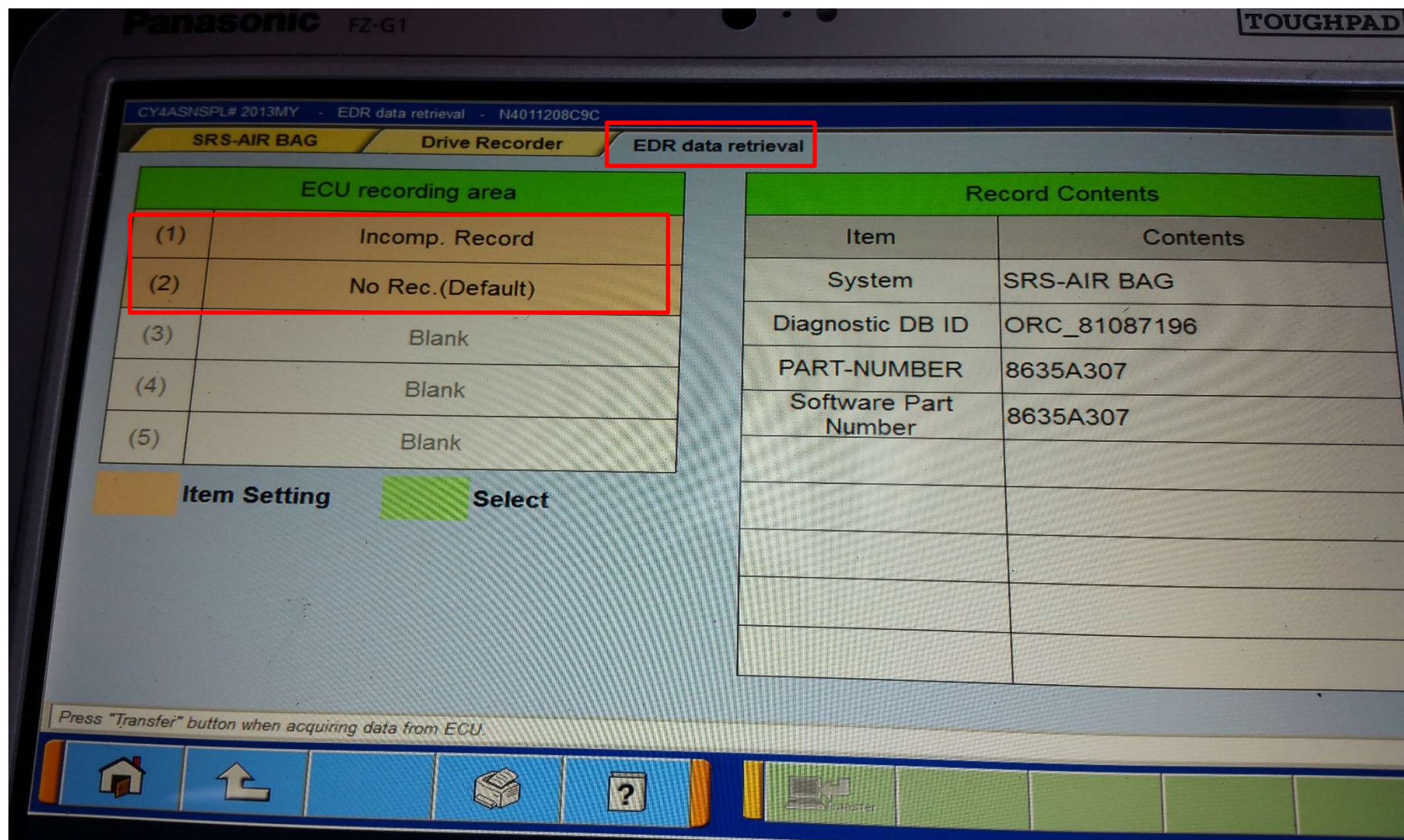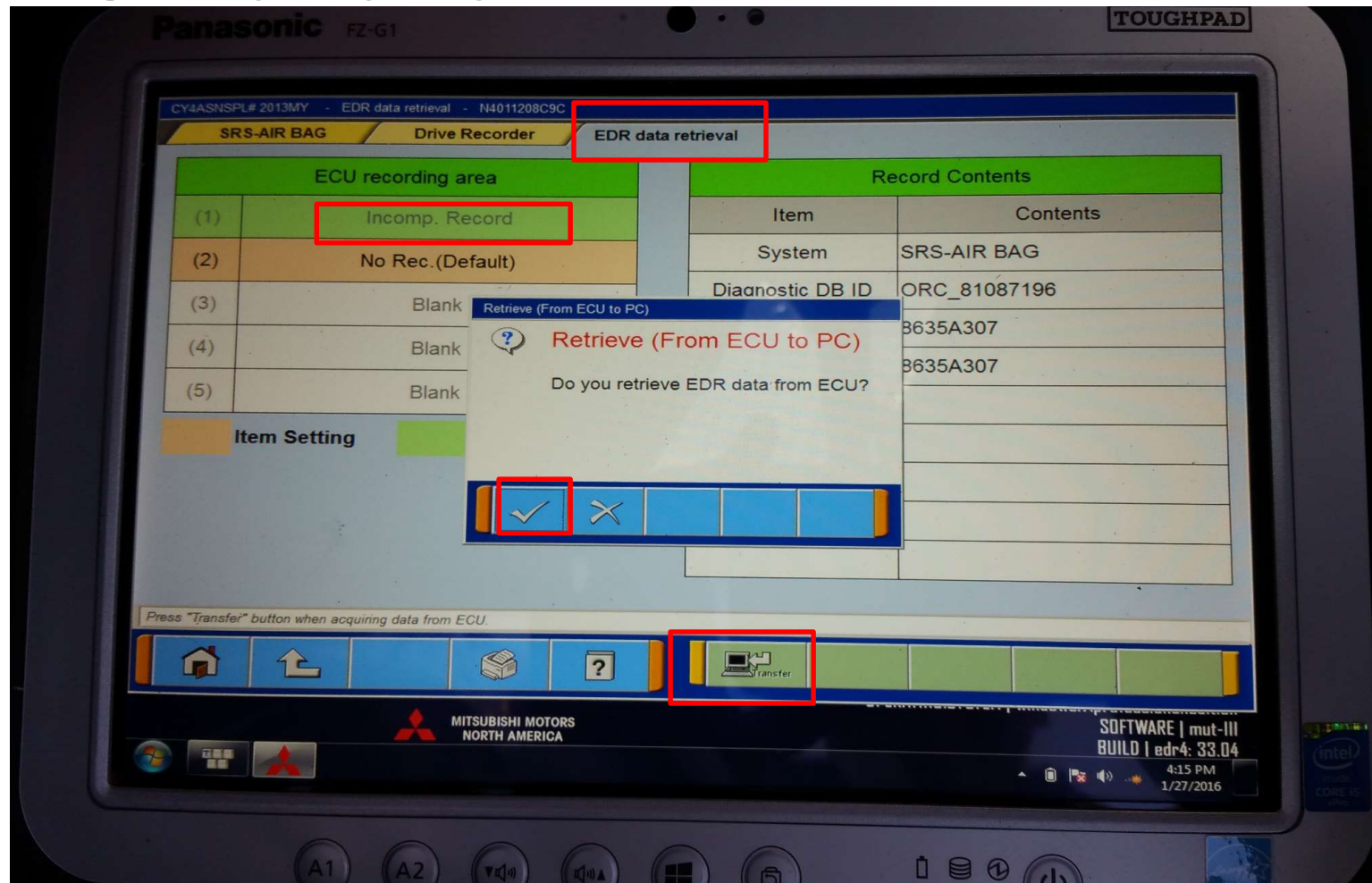
System select – pick SRS Air Bag

Within Air Bag, select drive recorder

Within drive recorder, select EDR

Events captured shown

Select Record, Select Transfer to get popup in center, click check

Scroll Bar during data retrieve
Early Software took up to 15 min
After recent software update, much faster

Accept or change recommended file name.
Default is year/month/day_time from computer clock

Use file explorer to navigate to CSV file just saved New software may be different

Highlight, Click Load File

View Data Output by data element

View Data by Output element
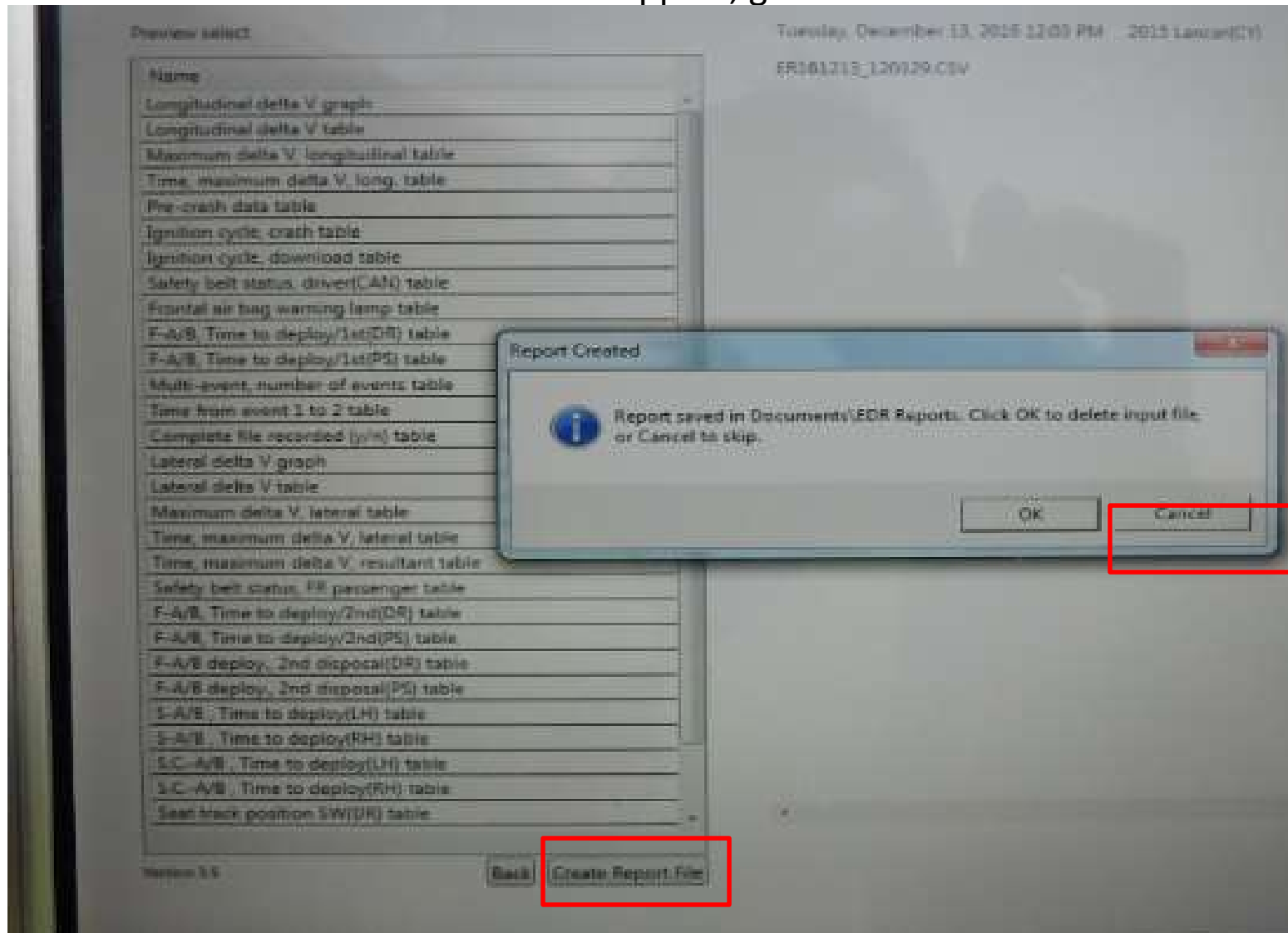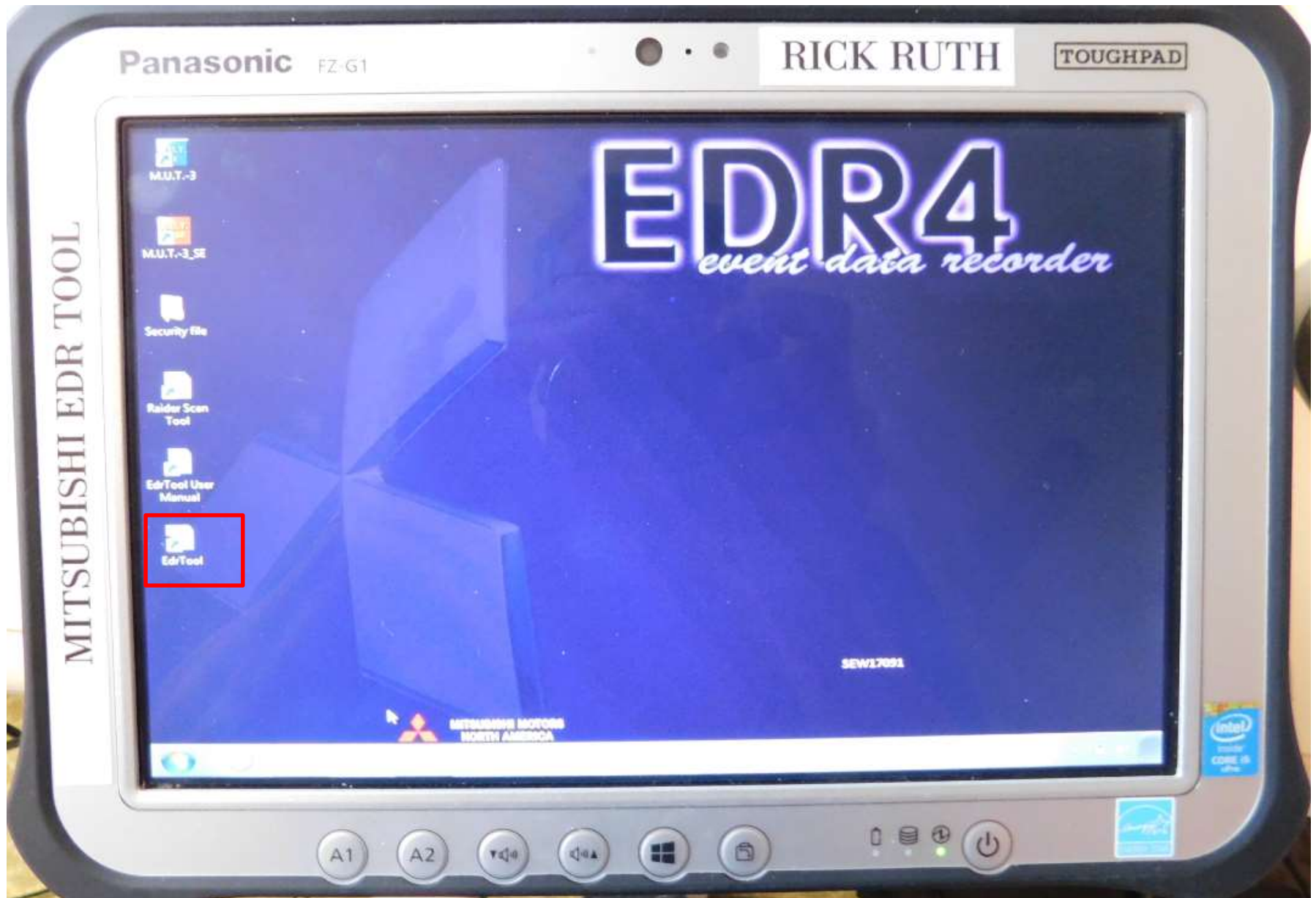

27

Click Create Report File.
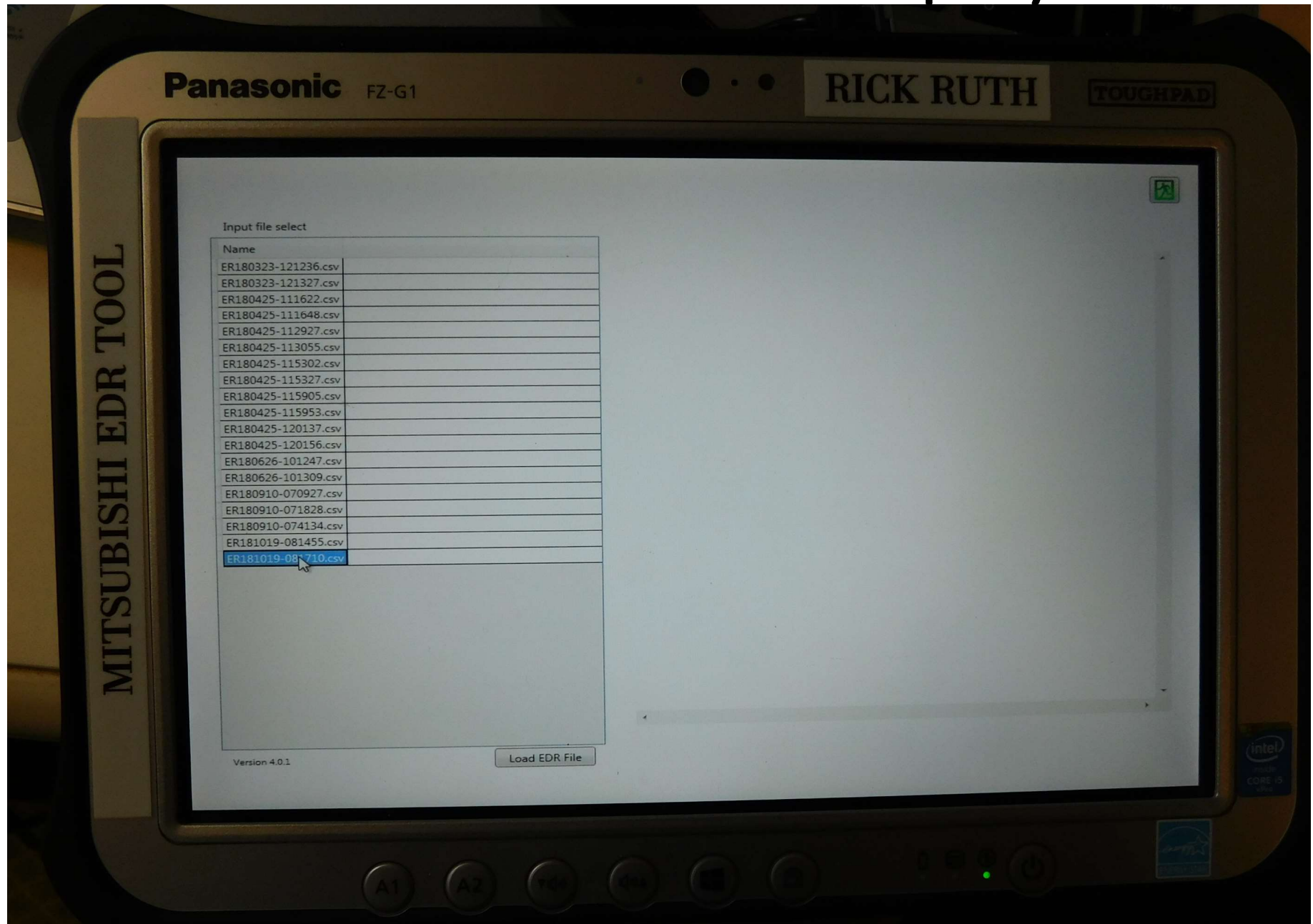
Cancel deleting input file.

If this button does not appear, go to next slide

New: Select "EDR Tool" (PDF Maker)

Newer software will display list

Navigate to saved PDF and open

File name same as CSV except extension
Insert thumb drive into Toughbook and
save to thumb drive

EdrTool

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File Information

EDR Data Download Date	Tuesday, December 13, 2016 12:03 PM
EDR Part Number	8635A307
EDR Data Area	1
Software Build Date	Tuesday, August 05, 2014

Comments
Vehicle: 2015 Lancer(CY)

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Tool Use Field Feedback

- The total number of files collected is still very small – about 10.

- About half of the files said they were interrupted recordings and had no useful data in them. This seems unusual for a part 563 recorder that must make recordings after a 30 mph barrier crash. More experience is needed before reaching any conclusions.

- Default data is 318.1 mph (511.99 kph), 65535 rpm, 30720 steering, and brake off.

Anomalies

- A 2015 Lancer file read with software version 33 had longitudinal and lateral Delta V and steering polarities backwards, and accel pedal displayed 114% for some data points.

- Another 2015 Lancer read with software version 34 had the polarities correct. A 2014 Mirage had polarities correct.

- Review data against physical evidence before reaching any conclusions

Mitsubishi Recap

- Bosch CDR covers a few models starting mid-2019 and is expected to eventually cover more legacy modules.

- In the meantime the dedicated Mitsubishi DLC-only tool is required for some models.

- DTM readouts are possible by Mitsubishi and by Brad Muir who built a special rig (not shippable – you must send module to them)