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

Version Dec 2021



UNIVERSITY of NORTH FLORIDA.

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# MITSUBISHI (0.5% market share)

- Mitsubishi is now mostly covered by Bosch CDR using the CDR900 interface. A few models are not covered in 21.3 (may be covered soon) and may require use of their proprietary EDR tool, a derivative of their dealer scan tool. Software is loaded on a Panasonic Toughpad. Cost \$6380 + tax. They no longer update the software in anticipation of full Bosch coverage.
- 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. Mitsu & Brad Muir have one.

### Mitsubishi EDR's Dec 2021

#### Most now supported by CDR, as of Dec '21 some not

Model	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	
Delica D5 (Japan)	839 Bosc	h CDR											839/837	837			
		Part MU	141170														
Eclipse (PS Platform)		<u>4/2005 t</u>	to 8/2011	Proprieta	arv EDR Tool	Production	ends 8/201	1									
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Eclipse Cross (SUV)				Data in o							837 Bosc						
EK Wagon/EK Space (Japan)							840	Rosch C	סח								
			2			Developetion				ll							
Endeavor SUV (PS Platform)			•			Production	ends 8/201	1 replace	ed by Out	lander		0.50	•				_
Expander (Phillipines)												853	3				
Galant Fortis		839 Bos	sch CDR														
iMiEV			Not sold in	US	1	338	838										
Lancer		839 Bos	sch CDR								839					839	
Lancer Evolution & Evo X		839 Bos	sch CDR								839					839	
Lancer Sportback			839 Bosch	CDR													
Mirage, Attrage (subcompac	t) Not in pro	oduction					Г	838 Bos	ch CDR			838 US, 853	B ROW				
			A208 Read	w/CDR	A208/A304 r	nix. A208	79					17777		828			
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Outlander Sport, RVR, ASX					838 Bosch	CDR											
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Pajero/Montero (SE Asia only)					Not in produ	ction				000/000		lation					
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The source of this data is the Mitsubishi E	DR tool flyer fr	m Bosch F	Diagnostics and	CDR help fil	e version 21 1 2 o	ther available induc	tru data bost	info avialabl		VV VV CCO							_
Acknowledgement to Brad Muir of Crash D	ata Specialists	for providin	g many details	on models ar	nd data available	וווכו מימוומטוכ ווועעג	ily uala - Desl		ie, not guali								_
Copyright Ruth Consulting LLC	2021 - Au	thorized	for distribut	ion by UN	NF-IPTM & S	<b>AE</b>										۹	

### Help file cable links suggest some Mitsubishi listed in help file as supported are not (yet) – possibly in 21.4?

#### MITSUBISHI ACM CABLE - P/N: 1699200783 / CABLE ID# 837

This CDR cable is required for direct-to-module imaging of 2018 and newer Eclipse Cross vehicles sold into the various markets. This cable will be available end of June 2019.

#### MITSUBISHI ACM CABLE - P/N: 1699200784 / CABLE ID# 838

This CDR cable is required for direct-to-module imaging of 2011 and newer Mitsubishi vehicles (see below) sold into the various markets. This cable will be available end of June 201

2011 - 2019 ASX, Outlander Sport & RVR

2014 - 2019 Outlander

2018 - 2019 Outlander PHEV

\*2014 and newer Mirage

\*2017 and newer Attrage

\*2012 and newer iMiEV

\* not currently supported in CDR software, support planned for a future release

#### MITSUBISHI ACM CABLE - P/N: 1699200785 / CABLE ID# 839

This CDR cable is required for direct-to-module imaging of 2007 and newer Mitsubishi vehicles (see below) sold into the various markets. This cable will be available end of June 201

\*2008 and newer Galant Fortis

\*2007 and newer Delica-D5

\*2009 and newer Lancer Evolution

\*2007 - 2013 Outlander

\* not currently supported in CDR software, support planned for a future release

# Using the Proprietary tool

- Mitsubishi has assisted law enforcement with DTM readouts in the past. Ask for help.
- I am only aware of two other organizations who have this 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



# **Event Data Recorder Kit**

The authentic Mitsubishi Motors North America, Inc. tool for retrieving information\* related to vehicle crashes or accidents. For use on 2013 models and future Mitsubishi vehicles\*\*.

#### **Features:**

- Fast Vehicle Scan
- Ten-point glove multi touch 10.1" HD display
- MIL-STD-810G, 4' drop & all weather IP65 dust and water



#### resistant

- USB 3.0, 2nd USB port & HDMI port
- 802.11a/b/g/n/ac Wi-Fi

	Part No.	QTY
MUT-III Scan Tool Kit	MUT3AMKIT	1
Panasonic Toughpad®		1
Vehicle Communication Interface (VCI-Lite)		1
EDRSoftware		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

\* In accordance with US regulation, Part 563.

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

Promotion # MI15-177

Proper placement of VCI-Lite on backside of Toughpad®

#### Please Note:

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

#### 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

((, ;;			
		Panasonic FZ-G1 ••• RICK RUTH TOUGHPAD	
		MUT3-SE	
	TOC	M.U.TIII SE Multi Use Tester III Second Edition	ľ
	DR T(	STV 🕁	
	SHI E	Wh     Topics       - Sep 2017 - Diagnostic database is updated     - In case that Systems(Options) are not d	
	SUBIS	The notice of fixed malfunction. (To What's NEW for more details) Jun 2017 - Diagnostic database is updated * "	
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#### Panasonic FZ-G1

#### **EULA (end-user license agreement)**

• • RICK RUTH

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?



### **Choose System Select**

Function Select Menu - N400000000 - Windows Internet Explores Menu	
System select	Special function
CAN bus diagnosis	Configuration
What's New Jun.2015- Diagnostic database is updated. Dec.2014- Diagnostic database is updated. The notice of fixed malfunctions	Topics         USB connection for V.C.ILite.         Introduction of V.C.ILite functionality.         Explanation for the meaning of underline.         Introduction of the stop sampling for Data list.
Please select function.	Ver. 33.04

#### 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

Input	of vehicles information - N500000000 - Window	rs Internet Explorer	
	DESTIN	MMNA	
	VIN	JA32U2FU6DU008605	
	ТҮРЕ	CY4A	
	CLASS	SNSPL#	
	MODEL YEAR	2013	
	MODEL		
	ENGINE/MOTOR	4B11 (2.0, D4; MFI, MIVEC, CO2)	
	TRANSMISSION	F5MBB (5M/T-FWD)	
Input th	e vehicles information th	at it is diagnosed.	
1 î			

# Insert VIN first some will populate Enter remainder then accept

#### May auto populate from ECM

	DESTIN	
		MMNA
	VIN	JA32U2FU6DU008605
	Түре	CY4A
	CLASS	SNSPL#
	MODEL YEAR	2013
	MODEL	
	MODEL	LANCER (CY#)
	ENGINE/MOTOR	4B11 (20, D4, MFI, MIVEC, CO2)
	TRANSMISSION	F5MBB (5M/T1FWD)
(Innut th		

#### Debug if necessary. 12V needed in DLC & Ignition to ACM. Make sure you are in MUT3-SE not MUT3 software

	Anasonic FZ-G1	TOUGHPAD
	System List       1     MFI       2     CRUISE CONTROL	Model Year Up to2005MY From2006MY
	3 ECPS/4WS 4 ABS/ASC/ASTC/WSS	cation)
	5       SRS-AIR BAG       Error Code: No.N40         6       Air Conditioner       Failed to communication Check PC-V.C.I. corror M.U.TIII Manual for	10000_00001     P       ation with V.C.I.     IASNSPL#       innection. Refer to rother solution.     P
	7 ETACS 8 Meter	
	9 Steering Angle Sensor 10 AND	
Pleas	e wait!	
		S:05 PM 1/27/2016
	(A1) (A2) (V(1)) ((1))	

# System select – pick SRS Air Bag



# Within Air Bag, select drive recorder

System select SRS-AIR BAG	000C	
Check Chart For Problem Symptoms	Diagnostic Trouble Code	Data List
Actuator Test	Drive Recorder	Special Function
Voltmeter	Ohmmeter	
Please select function.		
Please select function.		

# Within drive recorder, select EDR

	System select SRS-AIR E	20700C BAG Drive Recorder		
	Record	Data display	Record (Read setting condition)	
	Data storing	EDR data retrieval		
Please se	ect function.			
		2		

# Events captured shown

ECU recording area       Record         (1)       Incomp. Record         (2)       No Rec.(Default)         (3)       Blank         (4)       Blank         (5)       Blank         (5)       Blank         Item Setting       Select	ECU recording area	
Item Setting     Select	Record Contents	
(2)       No Rec.(Default)         (3)       Blank         (4)       Blank         (5)       Blank         Item Setting       Select	Incomp. Record Item Contents	
(3)       Blank         (4)       Blank         (5)       Blank         Item Setting       Select	No Rec.(Default) System SRS-AIR BAG	
(4)       Blank         (5)       Blank         Item Setting       Select	Blank Diagnostic DB ID ORC_81087196	
(f)     Drank       (5)     Blank       Item Setting     Select	PART-NUMBER 8635A307	
(5) Blank Item Setting Select	Software Part 8635A307	
Item Setting Select	Blank	
Press "Topolo i" h. H.	Setting Select	

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

CY4ASNSPL# 2013	MY - EDR data retrieval - N4011208C9C			
SRS-AIR	BAG Drive Recorder	EDR data retrieval		
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(2)	No Rec.(Default)	S	/stem	SRS-AIR BAG
(3)	Blank Retrieve (From EC	Diagno	stic DB ID	ORC_81087196
(4)	Blank ? Ret	rieve (From ECL	to PC)	8635A307
(5)	Blank Do y	ou retrieve EDR data	from ECU?	B635A307
Press "Transfer" butto	n when acquiring data from ECU	×		
		?	fer	
				SDFTWARE   mut-III BUILD   edr4: 33.04

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

SRS-AIR BAG	Drive Recorder EDR data retrieval	
A The second and a second s		
13	Retrieving (From ECU to PC)	
	Please wait a second	
Retrieving the data from ECU, P	Please wait.	

#### 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

Panasonic FZ-G	1	•		
Organize - Include in library -	s (C:) → MUTSW → MUT3 → TEMP → RECDATA Share with → New folder		• 49	Search RECDA
<ul> <li>Favorites</li> <li>Desktop</li> <li>Downloads</li> <li>Recent Places</li> </ul>	Name ER160127_162951.CSV ER161213_120329.CSV	Date modified 1/27/2016 4:29 PM 12/13/2016 12:03	Type CSV File	Size 519
Libraries Documents Music				518
Pictures     Videos     Computer				
Windows (C:) Network				•

# Highlight, Click Load File

Panasonic FZ-G1	• • •	T	DUGHPAD
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ER161213_120329.CSV			
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	Loading EDR file		
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Version 3.5	DR File		
	0 0 0		

# View Data Output by data element

Proview select	Friday, October 19, 2018 8:17 AM 2017 Outlander(GP)
Name	ER181019-081710.csv
Present indexed states of seconds	
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Maximum delta V longitudinal table	
Tune maximum delta V lono, table	
Pre-crash data table	-2
Ignition cycle, crash table	3
Ignition cycle, download table	
Safety belt status, driver(CAN) table	
Frontal air bag warning lamp table	-5
F-A/B. Time to deploy/1st(DR) table	E -6
F-A/B; Time to deploy/1st(PS) table	E W 7
Multi-event, number of events table	
Time from event 1 to 2 table	
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Lateral acceleration table	
Longitudinal acceleration graph	
Longitudinal acceleration table	0 20 40 00 10 10 10 10 20 20 10 Milliseconds
Normal acceleration graph	
Normal acceleration table	
Lateral delta V graph	
Lateral deita V table	
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Time maximum delta V, lateral table	
Time, maximum delta V, resultant table	
Vehicle toll angle graph	
Vehicle roll angle table	
balety beit status, FR passenger table	
and the second se	

# View Data by Output element

#### Panasonic FZ-G1

Preview select
Name
Longitudinal delta V graph
Longitudinal delta V table
Maximum delta V, longitudinal table
Time, maximum delta V, long, table
Pre-crash data table
Ignition cycle, crash table
Ignition cycle, download table
Safety belt status, driver(CAN) table
Frontal air bag warning lamp table
F-A/B, Time to deploy/1st(DR) table
F-A/B, Time to deploy/1st(PS) table
Multi-event, number of events table
Time from event 1 to 2 table
Complete file recorded (y/n) table
Lateral delta V graph
Lateral delta V table
Maximum delta V, lateral table
Time, maximum delta V, lateral table
Time, maximum delta V, resultant table
Safety belt status, FR passenger table
F-A/B, Time to deploy/2nd(DR) table
F-A/B, Time to deploy/2nd(PS) table
F-A/B deploy., 2nd disposal(DR) table
F-A/B deploy., 2nd disposal(PS) table
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S-A/B , Time to deploy(RH) table
.CA/B , Time to deploy(LH) table
CA/B , Time to deploy(RH) table
eat track position SW(DR) table
n 3.5
Back Create Report File

Wednesday, January 27, 2016 4:29 PM 2013 Lancer(CY)

#### ER160127\_162951.CSV

#### Pre-crash data table

	Contract (Steph Demobil)	
Times (sec)	Speed, vehicle indicated (Arren (Arren))	111
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-4.3	1181 1181 991	133
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17.17	318 1 511 99	

TOUGHPAD

FE

### Click Create Report File.

#### Cancel deleting input file.

If this button does not appear, go to next slide

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Compiluctional shells V table				
Maximum delta V longituilinal table				
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Ignition cycle, download table				
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### New: Select "EDR Tool" (PDF Maker)



# Newer software will display list

• •

RICK RUTH

#### Panasonic FZ-G1

Ivanie	
ER180323-121236.csv	
ER180323-121327.csv	
ER180425-111622.csv	
ER180425-111648.csv	
ER180425-112927.csv	
ER180425-113055.csv	
ER180425-115302.csv	
ER180425-115327.csv	
ER180425-115905.csv	
ER180425-115953.csv	
ER180425-120137.csv	
ER180425-120156.csv	
ER180626-101247.csv	
ER180626-101309.csv	
ER180910-070927.csv	Martin R. T. Martin and Martin Light 12
ER180910-071828.csv	
ER180910-074134.csv	
ER181019-081455.csv	

Version 4.0.1

Carl Carlo

Load EDR File

MITSUBISHI EDR TO(

# Navigate to saved PDF and open File name same as CSV except extension Insert thumb drive into Toughbook and save to thumb drive

#### EdrTool

#### IMPORTANT NOTICE:

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.

#### **File Information**

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

#### Comments

Vehicle: 2015 Lancer(CY)

#### Notice

An Event Data Recorder ("EDR") is an on-board mechanism capable of monitoring, recording, storing and later displaying certain precrash, 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 else without owner consent or a court order. Please consult applicable laws/regulations for your state. Mitsubishi Motors takes no responsibility for any problems with or damage to EDR data experienced as a result of using this manual and the download tool

# Tool Use Field Feedback

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

 A proprietary tool may still be needed for a few models before full Bosch coverage is available