

IMPORTANT NOTICE: Robert Bosch LLC and the manufacturers whose vehicles are accessible using the CDR System urge end users to use the latest production release of the Crash Data Retrieval system software when viewing, printing or exporting any retrieved data from within the CDR program. Using the latest version of the CDR software is the best way to ensure that retrieved data has been translated using the most current information provided by the manufacturers of the vehicles supported by this product.

CDR File Information

User Entered VIN	1FAHP3F26CL215691
User	
Case Number	MC0200
EDR Data Imaging Date	11/29/2011
Crash Date	
Filename	1FAHP3F26CL215691_ACM.CDRX
Saved on	Tuesday, November 29 2011 at 11:23:21
Collected with CDR version	Crash Data Retrieval Tool 4.2
Reported with CDR version	Crash Data Retrieval Tool 10.0
EDR Device Type	Airbag Control Module
ACM Adapter Detected During Download	Yes
Event(s) recovered	locked frontal event

Comments

No comments entered.

The retrieval of this data has been authorized by the vehicle's owner, or other legal authority such as a court order or search warrant, as indicated by the CDR tool user on Tuesday, November 29 2011 at 11:23:21.

Data Limitations

Restraints Control Module Recorded Crash Events:

Deployment Events cannot be overwritten or cleared from the Restraints Control Module (RCM). Once the RCM has deployed any airbag device, the RCM must be replaced. The data from events which did not qualify as deployable events can be overwritten by subsequent events. The RCM can store up to two deployment events.

Airbag Module Data Limitations:

- Restraints Control Module Recorded Vehicle Forward Velocity Change reflects the change in forward velocity that the sensing system experienced from the point of algorithm wake up. It is not the speed the vehicle was traveling before the event. Note that the vehicle speed is recorded separately five seconds prior to algorithm wake up. This data should be examined in conjunction with other available physical evidence from the vehicle and scene when assessing occupant or vehicle forward velocity change.
- Event Recording Complete will indicate if data from the recorded event has been fully written to the RCM memory or if it has been interrupted and not fully written.
- If power to the Airbag Module is lost during a crash event, all or part of the crash record may not be recorded.
- For 2011 Ford Mustangs, the Steering Wheel Angle parameter indicates the change in steering wheel angle from the previously recorded sample value and does not represent the actual steering wheel position.

Airbag Module Data Sources:

- Event recorded data are collected either INTERNALLY or EXTERNALLY to the RCM.
 - INTERNAL DATA is measured, calculated, and stored internally, sensors external to the RCM include the following:
 - > The Driver and Passenger Belt Switch Circuits are wired directly to the RCM.
 - > The Driver's Seat Track Position Switch Circuit is wired directly to the RCM.
 - > The Side Impact Sensors (if equipped) are located on the side of vehicle and are wired directly to the RCM.
 - > The Occupant Classification Sensor is located in the front passenger seat and transmits data directly to the RCM on high-speed CAN bus.
 - > Front Impact Sensors (right and left) are located at the front of vehicle and are wire directly to the RCM.
 - EXTERNAL DATA recorded by the RCM are data collected from the vehicle communication network from various sources such as Powertrain Control Module, Brake Module, etc.

02007_RCM-RC6_r002

System Status at Time of Retrieval

VIN As Programmed into RCM at Factory	1FAHP3F26CL215691
Current VIN from PCM	1FAHP3F26CL215691
Ignition Cycle, Download (First Record)	281
Ignition Cycle, Download (Second Record)	N/A
Restraints Control Module Part Number	CM5T-14B321-AF
Restraints Control Module Serial Number	000675364543
Restraints Control Module Software Part Number (Version)	CM5T-14C028-AF
Driver Side/Center Frontal Restraints Sensor Serial Number	A104EA592E09
Driver, Row 1, Side Restraint Sensor 1 Serial Number	C104B143402D
Driver, Row 2, Side Restraint Sensor 2 Serial Number	C9046C733A28
Passenger Frontal Restraints Sensor Serial Number	9D04EA590327
Passenger, Row 1, Side Restraint Sensor 1 Serial Number	9F04EA591E29
Passenger, Row 2, Side Restraint Sensor 2 Serial Number	AD0448DA1C20

System Status at Event (First Record)

Complete File Recorded (Yes,No)	Yes
Multi-Event, Number of Events	1
Time From Event 1 to 2 (msec)	N/A
Lifetime Operating Timer at Event Time Zero (sec)	35.369
Key-On Timer at Event Time Zero (sec)	606
Vehicle Voltage at Time Zero (V)	12.63
Energy Reserve Mode Entered During Event (Yes, No)	No
Time Driver Side/Center Frontal Restraints Sensor Lost Relative to Time Zero (msec)	31

Faults Present at Start of Event (First Record)

No Faults Recorded

Deployment Data (First Record)

Frontal Airbag Deployment, Time to First Stage Deployment, Driver (msec)	8.0
Frontal Airbag Deployment, Time to 2nd Stage, Driver (msec)	18.0
Belt tensioner deployment, time to 1st stage, driver (msec)	8.0
Frontal airbag deployment, time to 1st stage deployment, front passenger (msec)	8.0
Frontal airbag deployment, time to 2nd stage, front passenger (msec)	13.0
Belt tensioner deployment, time to 1st stage, front passenger (msec)	8.0
CAN adaptive vent deployment, front passenger (msec)	39.0
Adaptive load limiter deployment, front passenger (msec)	18.0
Maximum Delta-V, Longitudinal (MPH [km/h])	-40.4 [-65]
Time, Maximum Delta-V Longitudinal (msec)	90
Driver or Center, Front Satellite Sensor, Safing	Yes
Passenger, Front Satellite Sensor, Safing	Yes
RCM Front (Longitudinal), Discriminating Deployment	Yes
RCM Front(Longitudinal), Safing	Yes

Pre-Crash Data -1 sec (First Record)

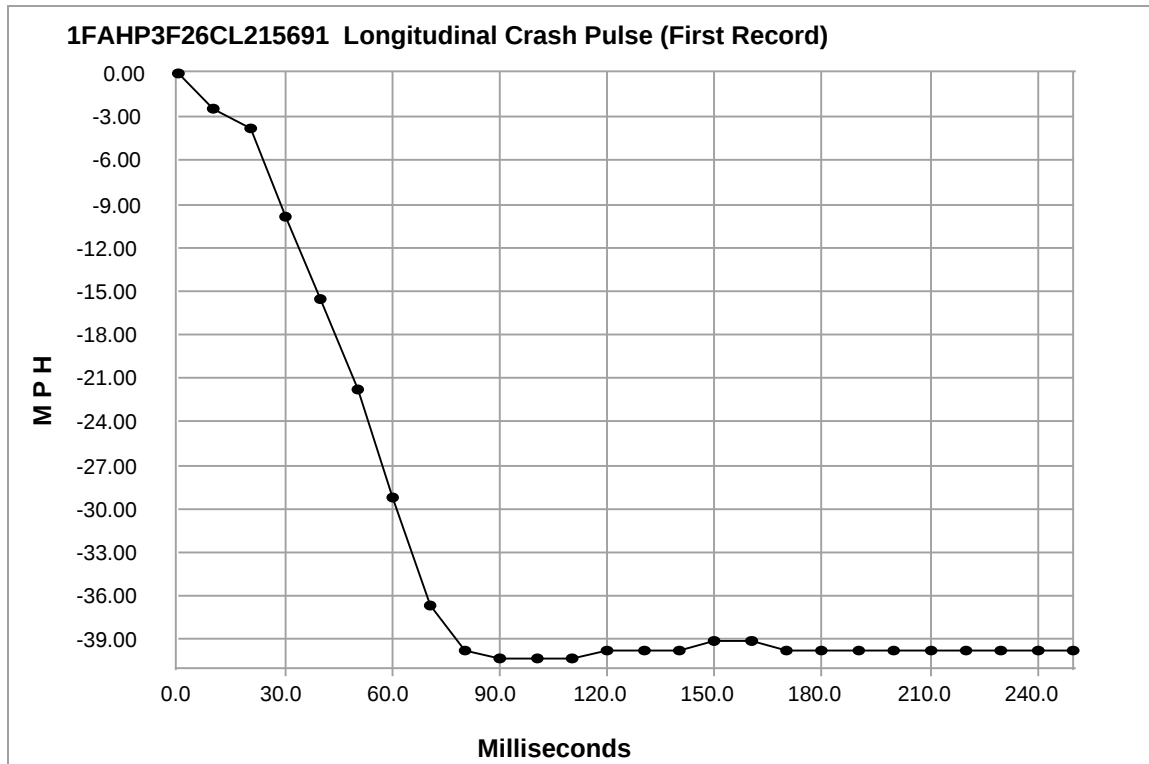
Ignition cycle, Crash	279
Frontal Air Bag Warning Lamp, On/Off	Off
Occupant Size Classification, Front Passenger (Child size Yes/No [Hex value])	No [\$02]
Safety Belt Status, Driver	Buckled
Seat Track Position Switch, Foremost, Status, Driver	Not Forward
Seat Track Position Switch, Foremost, Status, Front Passenger	Forward
Safety Belt Status, Front Passenger	Buckled
Brake Telltale	Off
ABS Telltale	Off
ESC/TC Telltale	Off
ESC/TC Off Telltale	Off
Speed Control Telltale	Off
Powertrain Wrench Telltale	Off
Powertrain Malfunction Indicator Lamp (MIL) Telltale	On

Pre-Crash Data -5 to 0 sec [2 samples/sec] (First Record)

Time (sec)	Speed, Vehicle Indicated (MPH [km/h])	Accelerator Pedal, % Full	Service Brake, On/Off	Engine RPM	ABS Activity (Engaged, Non-Engaged)	Brake Powertrain Torque Request	Traction Control via Brakes	Engine Torque (N-m)	Driver Gear Select (Auto Trans)
- 5.0	35.3 [56.8]	0.0	Off	0	non-engaged	No	non-engaged	756	Neutral
- 4.5	35.0 [56.4]	0.0	Off	0	non-engaged	No	non-engaged	756	Neutral
- 4.0	35.0 [56.3]	0.0	Off	0	non-engaged	No	non-engaged	756	Neutral
- 3.5	35.0 [56.4]	0.0	Off	0	non-engaged	No	non-engaged	756	Neutral
- 3.0	35.0 [56.4]	0.0	Off	0	non-engaged	No	non-engaged	756	Neutral
- 2.5	35.0 [56.4]	0.0	Off	0	non-engaged	No	non-engaged	756	Neutral
- 2.0	35.1 [56.4]	0.0	Off	0	non-engaged	No	non-engaged	756	Neutral
- 1.5	35.0 [56.3]	0.0	Off	0	non-engaged	No	non-engaged	756	Neutral
- 1.0	35.1 [56.5]	0.0	Off	0	non-engaged	No	non-engaged	756	Neutral
- 0.5	34.9 [56.2]	0.0	Off	0	non-engaged	No	non-engaged	756	Neutral
0.0	34.9 [56.1]	0.0	Off	0	non-engaged	No	non-engaged	756	Neutral

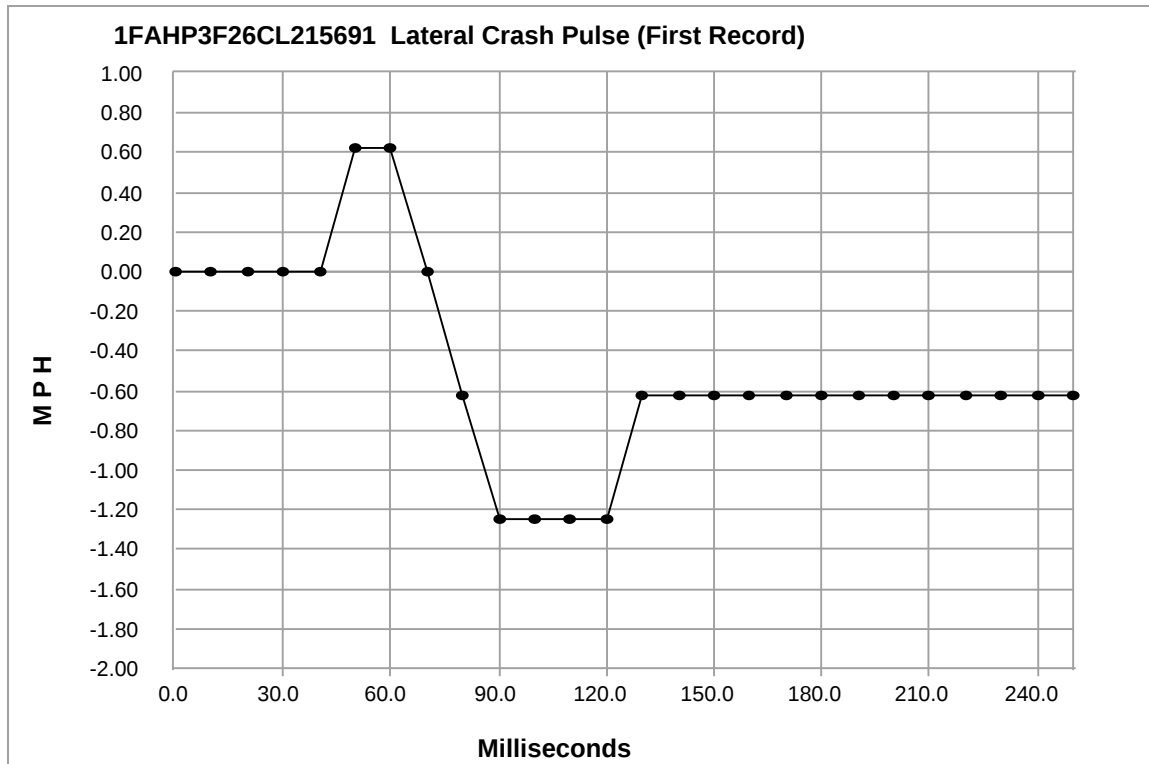
Pre-Crash Data -5 to 0 sec [10 samples/sec] (First Record)

Time (sec)	Stability Control Lateral Acceleration (g)	Stability Control Longitudinal Acceleration (g)	Stability Control Yaw Rate (deg/sec)
- 5.0	-0.01	0.00	0.02
- 4.9	0.00	0.00	0.00
- 4.8	0.00	-0.01	0.21
- 4.7	-0.09	-0.02	-0.41
- 4.6	0.00	0.00	-0.50
- 4.5	-0.02	0.00	0.06
- 4.4	0.00	-0.02	0.00
- 4.3	-0.02	-0.01	0.00
- 4.2	0.23	0.01	-1.40
- 4.1	0.08	0.02	-0.20
- 4.0	0.02	0.00	0.40
- 3.9	0.00	0.00	0.16
- 3.8	-0.01	0.02	0.67
- 3.7	0.05	-0.01	1.80
- 3.6	0.00	-0.01	0.94
- 3.5	0.01	0.03	0.00
- 3.4	-0.02	-0.01	0.11
- 3.3	-0.01	0.01	0.25
- 3.2	0.00	0.02	0.50
- 3.1	-0.29	-0.06	-0.48
- 3.0	-0.08	0.01	-2.09
- 2.9	0.08	-0.01	-1.77
- 2.8	0.01	0.04	-0.07
- 2.7	0.04	0.03	0.47
- 2.6	0.03	0.00	0.14
- 2.5	0.00	-0.01	1.51
- 2.4	-0.01	0.01	1.52
- 2.3	0.02	0.00	0.46
- 2.2	0.01	0.00	0.39
- 2.1	0.00	0.02	0.27
- 2.0	0.01	-0.01	0.39
- 1.9	0.00	0.00	0.28
- 1.8	-0.01	0.00	0.14
- 1.7	0.00	0.00	0.39
- 1.6	0.00	0.01	0.18
- 1.5	-0.07	0.00	-0.22
- 1.4	-0.01	0.00	-1.11
- 1.3	-0.13	-0.01	-0.53
- 1.2	0.04	0.01	-1.51
- 1.1	-0.03	0.00	0.11
- 1.0	0.01	0.00	0.27
- 0.9	0.00	0.02	0.22
- 0.8	0.01	-0.01	0.25
- 0.7	0.01	-0.01	0.01
- 0.6	0.00	0.02	0.01
- 0.5	0.00	-0.01	0.29
- 0.4	0.00	0.00	0.19
- 0.3	0.01	-0.01	0.05
- 0.2	0.03	-0.03	0.15
- 0.1	-0.03	0.01	0.03
0.0	0.03	-0.01	0.11



Longitudinal Crash Pulse (First Record)

Time (msec)	Delta-V, longitudinal (MPH)	Delta-V, longitudinal (km/h)
0	0.0	0
10	-2.5	-4
20	-3.7	-6
30	-9.9	-16
40	-15.5	-25
50	-21.7	-35
60	-29.2	-47
70	-36.7	-59
80	-39.8	-64
90	-40.4	-65
100	-40.4	-65
110	-40.4	-65
120	-39.8	-64
130	-39.8	-64
140	-39.8	-64
150	-39.1	-63
160	-39.1	-63
170	-39.8	-64
180	-39.8	-64
190	-39.8	-64
200	-39.8	-64
210	-39.8	-64
220	-39.8	-64
230	-39.8	-64
240	-39.8	-64
250	-39.8	-64



Lateral Crash Pulse (First Record)

Time (msec)	Delta-V, lateral (MPH)	Delta-V, lateral (km/h)
0	0.0	0
10	0.0	0
20	0.0	0
30	0.0	0
40	0.0	0
50	0.6	1
60	0.6	1
70	0.0	0
80	-0.6	-1
90	-1.2	-2
100	-1.2	-2
110	-1.2	-2
120	-1.2	-2
130	-0.6	-1
140	-0.6	-1
150	-0.6	-1
160	-0.6	-1
170	-0.6	-1
180	-0.6	-1
190	-0.6	-1
200	-0.6	-1
210	-0.6	-1
220	-0.6	-1
230	-0.6	-1
240	-0.6	-1
250	-0.6	-1

Hexadecimal Data

Data that the vehicle manufacturer has specified for data retrieval is shown in the hexadecimal data section of the CDR report. The hexadecimal data section of the CDR report may contain data that is not translated by the CDR program. The control module contains additional data that is not retrievable by the CDR system.

02 00 00 00

43 4D 35 54 2D 31 34 42 33 32 31 2D 41 46 00 00 00 00 00 00 00 00 00 00

30 30 30 36 37 35 33 36 34 35 34 33 00 00 00 00

43 4D 35 54 2D 31 34 43 30 32 38 2D 41 46 00 00 00 00 00 00 00 00 00 00

41 31 30 34 45 41 35 39 32 45 30 39 00 00 00 00

43 31 30 34 42 31 34 33 34 30 32 44 00 00 00 00

43 39 30 34 36 43 37 33 33 41 32 38 00 00 00 00

39 44 30 34 45 41 35 39 30 33 32 37 00 00 00 00

39 46 30 34 45 41 35 39 31 45 32 39 00 00 00 00

41 44 30 34 34 38 44 41 31 43 32 30 00 00 00 00

31 46 41 48 50 33 46 32 36 43 4C 32 31 35 36 39 31

31 46 41 48 50 33 46 32 36 43 4C 32 31 35 36 39 31 00 00 00 00 00 00 00

Event Record 1

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00 00 01 17 00 01 00 00 00 00 00 00 00 00 03 FF FF FF FF FF FF 00 0A 08 5A
00 00 8A 29 00 21 BD EF 00 00 02 5E 00 00 00 00 10 F4 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
04 EF 09 5F 00 00 00 00 01 00 00 00 00 00 05 C7 FD 00 00 2B C0 00 00 2B C0 00
00 02 6C 00 00 02 6C 00 00 11 ED 00 00 11 ED 00 00 18 A5 1F E0 00 27 00 27 00
3F 00 3F 00 47 00 3D 00 3D 01 10 00 F0 00 70 00 4F 01 23 01 23 01 2B 01 2B 01
A9 0C 8C 00 00 00 60 00 23 00 00 00 01 00 01 00 09 00 09 00 0B 00 10 00 10 00
00 00 10 00 10 00 10 00 10 00 10 00 00 00 1F 0F FF 0F FF 00 03 08 00 0E 00 00
00 00 00 00 0F 0F 03 00 00 00 00 00 00 00 00 01 01 01 FF FF FF FF FF FF FF
FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
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10 00 10 00 00 00 00 00 00 00 00 00 00 00 4E 00 24 00 01 00 01 00 01 00 01 00
01 00 00 00 00 00 00 00 00 00 01 00 01 00 02 08 23 01 01 01 01 01 01 00 00 00
00 01 01 17 19 14 0C 14 19 00 00 00 00 17 0A 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 FF
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 07 07
00 00 00 14 13 00 00 00 00 1C 13 00 00 00 00 F7 FC FF FF 00 00 0D 07 FF FF 00
00 06 0D FF FE 00 00 EC F3 FF FE 00 00 05 0A FF FD 00 00 1B 06 FF FD 00 00 33
31 FF FC 00 00 07 07 FF FC 00 00 F6 2D FF FC 00 00 10 F8 FF FB 00 00 EE 20 FF
FB 00 00 1A F7 FF FB 00 00 EF 06 FF FB 00 00 48 39 FF FA 00 00 52 ED FF FA 00
00 13 78 FF FA 00 00 30 34 FF FA 00 00 08 E3 FF FA 00 00 E9 DE FF F9 00 00 0A
D8 FF F9 00 00 1F 18 FF F8 00 00 AB 09 FF F7 00 00 55 F9 FF F6 00 00 D6 F9 FF
F5 00 00 EB 0D FF F5 00 00 0C F5 FF F4 00 00 EE F4 FF F3 00 00 F9 F4 FF F1 00
00 00 18 FF F0 00 00 CF FF EF 00 00 00 00 FA FF EE 00 00 00 EE FF ED FF FF 00
FB FF EA FF FF 00 F2 FF E8 FF FF 00 ED FF E7 FF FF 00 F2 FF E7 FF FF 00 01 FF
E7 FF FE 00 0F FF E7 FF FF 00 16 FF E7 00 00 00 03 FF E7 00 00 00 0D FF E8 00
00 00 09 FF E8 00 01 00 F3 FF E8 00 00 00 01 FF E7 00 00 00 04 FF E6 00 00 00
04 FF E5 00 00 00 0F FF E2 00 00 00 FE FF DF 00 00 00 F1 FF DD 00 01 00 FE FF
DB 00 02 00 01 FF D9 00 03 00 02 FF D7 00 02 00 FB FF D6 00 01 00 0A FF D5 00
01 00 02 FF D4 00 01 00 05 FF D4 00 01 00 FA FF D3 00 01 00 01 FF D1 00 01 00
03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
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00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 01 00 00 01 01 00 00 02 02 00 00 01 02 00 00 FE 00 00 00 FC
FD 00 00 FC FB 00 00 FE FC 00 00 FF FE 00 00 00 01 00 00 01 02 00 00 03 03 00
00 03 03 00 00 03 03 01 01 00 00 01 01 FB FC 02 02 FB FD 02 02 FE FF 02 01 04
00 01 01 04 04 01 01 FE 00 00 01 FA FA 00 01 F9 F9 00 00 FD FC 00 00 06 01 00
00 0C 0A 01 01 04 07 02 01 FC FE 02 02 FA FC 01 02 FB F9 01 02 FC FE 02 01 04
FF 02 01 09 08 03 00 00 07 03 00 F7 F9 03 01 FD F6 01 02 04 03 02 02 FF 02 02
03 FE 03 02 03 F9 07 01 04 FD 02 00 05 FF FD 00 04 01 FA 00 04 08 F5 01 03 08
FF 01 03 05 0A 01 03 FF FF 01 02 FA 03 01 02 FB 05 04 02 01 FA 06 02 01 FC 07
00 FC 07 06 01 FC 02 04 01 FA FB 02 00 FF 00 00 FF 04 00 FF FF 02 FA FF FF 01
FE FE FF 02 03 FE 00 04 FE FE 00 00 FF FE 01 00 00 FC 00 FA 00 F0 00 E7 00 DD
01 D1 01 C5 00 C0 FF BF FE BF FE BF FE C0 FE C0 FF C0 FF C1 FF C1 FF C0 FF C0
FF C0 FF C0 FF C0 FF C0 FF C0 FF C0 FF BF 00 09 00 00 01 19 16 2E 00 00
00 02 80 BD 00 00 00 00 00 00 00 16 07 00 00 00 00 02 80 BD 00 00 00 00 00 00
00 00 15 FC 00 00 00 02 80 BD 00 00 00 00 00 00 00 00 16 05 00 00 00 02 80 BD
00 00 00 00 00 00 00 00 16 03 00 00 00 02 80 BD 00 00 00 00 00 00 00 16 07
00 00 00 02 80 BD 00 00 00 00 00 00 00 00 16 0B 00 00 00 02 80 BD 00 00 00 00
00 00 00 15 FC 00 00 00 02 80 BD 00 00 00 00 00 00 16 0E 00 00 00 00 02
80 BD 00 00 00 00 00 00 00 15 F1 00 00 00 02 80 BD 00 00 00 00 00 00 00 00
15 EA 00 00 00 02 80 BD 00 00 00 00 00 00 00 00 4B FF B1 00 00 00 03 00 46
00 0F 00 13 00 00 00 48 FF E7 00 74 00 2A 00 46 FC AC 00 B4 FF AE 00 46 FF DE
00 23 FF 9C 00 46 FF 23 FF F1 00 0B 00 46 FF FF 00 A3 00 00 00 48 FF 4D 00 66
00 00 00 4D 09 0A FF 89 FE E9 00 48 03 4E FF 49 FF D8 00 46 00 CF FF F6 00 4F
00 46 FF DB 00 24 00 20 00 46 FF CD FF 47 00 85 00 46 01 DC 00 61 01 67 00 46
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