

## CDR File Information

User Entered VIN	1FTRE14W26HA94907
User	C. J. Medwell
Case Number	10733
EDR Data Imaging Date	Tuesday, April 28 2009
Crash Date	Friday, February 6 2009
Filename	1FTRE14W26HA94907_PCM.CDR
Saved on	Tuesday, April 28 2009 at 11:47:18 AM
Collected with CDR version	Crash Data Retrieval Tool 3.1.1
Reported with CDR version	Crash Data Retrieval Tool 3.1.1
EDR Device Type	powertrain control module
Restraint Deployment Signal Received	Yes

**IMPORTANT NOTICE:** Robert Bosch LLC recommends that the latest production release of Crash Data Retrieval software be utilized when viewing, printing or exporting any retrieved data from within the CDR program. This ensures that the retrieved data has been translated using the most recent information including but not limited to that which was provided by the manufacturers of the vehicles supported in this product.

## Module Information

The retrieval of this data has been authorized by the vehicle's owner, or other legal authority such as a subpoena or search warrant, as indicated by the CDR tool user on Tuesday, April 28 2009 at 11:47:18 AM .

### FORD POWERTRAIN CONTROL MODULE EVENT DATA INTERPRETATION GUIDE

1. This document is intended to assist you in reading the data that has been retrieved from a Powertrain Control Module ("PCM") contained in a Ford vehicle. This document is further intended to provide general guidelines and it not intended to provide information regarding the interpretation of a specific read-out.
2. You have been provided with the data from the PCM in three formats. First, you have been provided with a table in the CDR report that contains data retrieved from a PCM converted to common English units (the "PCM Data Tables"), which is accompanied by an explanation of the column headings. Second, you have been provided with raw data display also included in the CDR report following the PCM Data Tables which includes the raw hexadecimal information as it was retrieved from the PCM. PCM data retrieved from the PCM which is included in both the PCM Data Tables and Hexadecimal format cannot be changed or modified by the user. The third available format is provided to you in a file which is formatted in a common ASCII text, CSV (comma separated variable) file. The CSV file contains the same converted data displayed in the PCM Data Tables found in the CDR report. The CSV file can be imported into a spreadsheet application for further data analysis.
3. The data points in the PCM Data Tables and in the CSV file occur every 0.2 seconds of time. It should be pointed out that "Relative Time" included in the PCM Data Table and in the CSV file is calculated based on the 0.2 second time interval and is displayed relative to the receipt of a Restraint Deployment Signal from the RCM. The "Relative Time" Information is not data which is retrieved from the PCM but is calculated based on the above information.
4. In the event that one of the vehicle's restraint devices (e.g., the vehicle's airbag or pretensioner) have deployed as a result of a collision, the Restraint Control Module or RCM will send a Restraints Deployment Signal (RDS) flag to the PCM via the Vehicle Data Bus. If the PCM receives an RDS flag, it will lock the data. It should be pointed out that the RCM and Vehicle Data Bus both require power for tenths of a second after the collision in order to send a signal or flag to the PCM.
5. If no RDS flag has been received from the RCM and there is still power to the PCM, the PCM data will not lock and the circular buffer will continuously overwrite itself when the vehicle's ignition is in the run position. In this event, data contained in the PCM that was relevant to the collision may be lost. However, if power was lost as a result of the collision, or the ignition key was turned off shortly after the event, there may still be data relating to the collision in the PCM.
6. Finding the data relating to the moment of impact:
  - a.) With regard to the PCM Data Tables and the CSV file where a Restraint Deployment Signal is received, the data is displayed in ordered of the "Relative Time (calc.)" parameter beginning with the oldest recorded frame of data.

The moment of impact can be found by reviewing the data contained in the RDS column. Specifically, the data samples recorded with an RDS flag equal to "Received" in the PCM Data Table and CSV file signify points recorded after the PCM received the RDS signal from the RCM. If the PCM has received an RDS flag, the moment of impact is typically set at the RDS = "Not Received" in the PCM Data Tables reading that immediately precedes a reading of RDS = "Received". The last RDS = "Received" data point signifies the last data point recorded in the event.

- b.) With regard to the PCM Data Tables and CSV file where a Remote Deployment Signal is not received, the data is displayed in order of the "Buffer Address" parameter data beginning with the lowest address value. The PCM buffer is circular and the data point of first address listed in the PCM Data Tables does not necessarily signify the beginning of the PCM recording. The start and stop time of the PCM recording could be in the middle of the Table.

The moment of impact usually correlates with a discontinuity of the data listed in the table. If a single, significant discontinuity in the data is found, the data point immediately preceding the discontinuity is likely to be the last data point recorded. This point usually signifies impact time zero. If there is no single significant discontinuity, the data must be examined in detail to determine the largest discontinuity in the largest number of data

elements. If no single largest discontinuity can be determined, it may not be possible to determine the moment of impact.

7. The PCM Data Tables further show a column labeled as the “Key on Timer – 63.75 Max (sec)” or PUTMR. The PUTMR shows the length of time that the PCM was functioning for the most recent key cycle. The timer ascends to a maximum value of 63.75 seconds. If the data was not locked by an RDS flag and the ignition key was turned off and on again, the PCM will begin to write new data starting at the beginning of the data table. While it is not common, there are instances where the first portion of the data table has subsequent-key-on, post-crash data; while the latter portion of the data table has data from the key cycle in which the crash occurred. In other rare cases, an event has occurred in less than 25 seconds after key on and older data from prior key cycles has been left in the latter part of the buffer. Review the Key on Timer – 63.75 Max (sec) (PUTMR) data for discontinuities to determine if this has occurred.

8. Data displayed in the Key on Timer – 63.75 Max (sec) column has a resolution of 0.25 seconds and rounds actual data to the nearest 0.25 seconds. The data points occur every 0.2 seconds.

Actual time	Key on Timer display
0.0	0.0
0.2	0.25
0.4	0.50
0.6	0.50
0.8	0.75
1.0	1.00

9. Recorded Vehicle Speed is proportional to transmission output shaft speed and accuracy can be affected if the vehicle has had the tire size or inflation pressure or the final drive axle ratio changed from the factory build specifications.

**PCM Data Source:**

• All PCM recorded data is fed directly from sensors to the PCM where raw signals are processed, and stored internally, except for the following parameters which are transmitted via the vehicle’s communication network:

- Stability Control
- Traction Control
- ABS
- Restraint Deployment Signal

**PCM Module Information**

Vehicle Identification Number (from PCM)	1FTRE14W26HA94907
PCM File Name (calibration level)	TBIE1D3.HEX*
PCM Part Number	6C2A-12A650-JC

### PCM EDR Data (1)

Buffer Address (Hex)	Relative Time (calc.) (Seconds)	Restraint Deployment Signal (Received / Not Received)	Speed, Vehicle Indicated (MPH)	Accelerator Pedal % Full (%)	Engine Throttle % Full (%)	Brake Switch (On / Off)	Brake SC De-ac (On / Off)	ABS (Active / Inactive)	Transmission - Neutral (Neutral / Not Neutral)
EA000540	-20.2	Not Received	17.1	0	4.5	ON	OFF	Not Active	Not Neutral
EA000550	-20	Not Received	16.4	0	4.5	ON	OFF	Not Active	Not Neutral
EA000560	-19.8	Not Received	16.2	0	4.5	ON	OFF	Not Active	Not Neutral
EA000570	-19.6	Not Received	15.5	0	4.5	ON	OFF	Not Active	Not Neutral
EA000580	-19.4	Not Received	15.1	0	4.5	OFF	OFF	Not Active	Not Neutral
EA000590	-19.2	Not Received	15	0	4.5	OFF	OFF	Not Active	Not Neutral
EA0005A0	-19	Not Received	14.7	8	5	OFF	OFF	Not Active	Not Neutral
EA0005B0	-18.8	Not Received	14.9	12.5	7	OFF	OFF	Not Active	Not Neutral
EA0005C0	-18.6	Not Received	15.1	15	8.5	OFF	OFF	Not Active	Not Neutral
EA0005D0	-18.4	Not Received	14.8	17	10	OFF	OFF	Not Active	Not Neutral
EA0005E0	-18.2	Not Received	15	21.5	12	OFF	OFF	Not Active	Not Neutral
EA0005F0	-18	Not Received	15.3	21.5	13.5	OFF	OFF	Not Active	Not Neutral
EA000600	-17.8	Not Received	15.6	23	15	OFF	OFF	Not Active	Not Neutral
EA000610	-17.6	Not Received	15.8	22.5	15.5	OFF	OFF	Not Active	Not Neutral
EA000620	-17.4	Not Received	16.1	25.5	16.5	OFF	OFF	Not Active	Not Neutral
EA000630	-17.2	Not Received	16.6	30	19	OFF	OFF	Not Active	Not Neutral
EA000640	-17	Not Received	17.3	40	26	OFF	OFF	Not Active	Not Neutral
EA000650	-16.8	Not Received	17.7	46.5	27	OFF	OFF	Not Active	Not Neutral
EA000660	-16.6	Not Received	18.5	56.5	34.5	OFF	OFF	Not Active	Not Neutral
EA000670	-16.4	Not Received	19.2	58	46	OFF	OFF	Not Active	Not Neutral
EA000680	-16.2	Not Received	19.5	58	57.5	OFF	OFF	Not Active	Not Neutral
EA000690	-16	Not Received	20.7	55.5	48	OFF	OFF	Not Active	Not Neutral
EA0006A0	-15.8	Not Received	21.7	55	53	OFF	OFF	Not Active	Not Neutral
EA0006B0	-15.6	Not Received	22.7	53.5	50	OFF	OFF	Not Active	Not Neutral
EA0006C0	-15.4	Not Received	23.7	50.5	36	OFF	OFF	Not Active	Not Neutral
EA0006D0	-15.2	Not Received	24.8	47	32.5	OFF	OFF	Not Active	Not Neutral
EA0006E0	-15	Not Received	25.5	46.5	30.5	OFF	OFF	Not Active	Not Neutral
EA0006F0	-14.8	Not Received	26.6	45.5	31.5	OFF	OFF	Not Active	Not Neutral
EA000700	-14.6	Not Received	27.2	43.5	32	OFF	OFF	Not Active	Not Neutral
EA000710	-14.4	Not Received	27.8	43.5	32	OFF	OFF	Not Active	Not Neutral
EA000720	-14.2	Not Received	28.6	44	32.5	OFF	OFF	Not Active	Not Neutral
EA000730	-14	Not Received	29.4	44	32	OFF	OFF	Not Active	Not Neutral
EA000740	-13.8	Not Received	30	45	32.5	OFF	OFF	Not Active	Not Neutral
EA000750	-13.6	Not Received	30.7	45	33	OFF	OFF	Not Active	Not Neutral
EA000760	-13.4	Not Received	31.4	44.5	32	OFF	OFF	Not Active	Not Neutral
EA000770	-13.2	Not Received	32	44.5	31.5	OFF	OFF	Not Active	Not Neutral
EA000780	-13	Not Received	32.7	46.5	34	OFF	OFF	Not Active	Not Neutral
EA000790	-12.8	Not Received	33.3	48.5	37	OFF	OFF	Not Active	Not Neutral
EA0007A0	-12.6	Not Received	33.9	49	35.5	OFF	OFF	Not Active	Not Neutral
EA0007B0	-12.4	Not Received	34.6	51.5	40.5	OFF	OFF	Not Active	Not Neutral
EA0007C0	-12.2	Not Received	35.2	54	58.5	OFF	OFF	Not Active	Not Neutral
EA0007D0	-12	Not Received	35.9	57.5	99.5	OFF	OFF	Not Active	Not Neutral
EA0007E0	-11.8	Not Received	36.6	59.5	99	OFF	OFF	Not Active	Not Neutral
EA0007F0	-11.6	Not Received	37.3	60	99	OFF	OFF	Not Active	Not Neutral
EA000010	-11.4	Not Received	37.9	56	99	OFF	OFF	Not Active	Not Neutral
EA000020	-11.2	Not Received	38.7	56.5	99	OFF	OFF	Not Active	Not Neutral
EA000030	-11	Not Received	39.4	59.5	99	OFF	OFF	Not Active	Not Neutral
EA000040	-10.8	Not Received	40	67.5	99	OFF	OFF	Not Active	Not Neutral
EA000050	-10.6	Not Received	40.7	79.5	99	OFF	OFF	Not Active	Not Neutral
EA000060	-10.4	Not Received	41.4	100	99	OFF	OFF	Not Active	Not Neutral
EA000070	-10.2	Not Received	42	100	99	OFF	OFF	Not Active	Not Neutral
EA000080	-10	Not Received	42.7	100	99	OFF	OFF	Not Active	Not Neutral
EA000090	-9.8	Not Received	43.4	100	99	OFF	OFF	Not Active	Not Neutral
EA0000A0	-9.6	Not Received	44	100	99	OFF	OFF	Not Active	Not Neutral
EA0000B0	-9.4	Not Received	44.6	99	99	OFF	OFF	Not Active	Not Neutral
EA0000C0	-9.2	Not Received	45.3	95	99	OFF	OFF	Not Active	Not Neutral
EA0000D0	-9	Not Received	45.9	78	99	OFF	OFF	Not Active	Not Neutral
EA0000E0	-8.8	Not Received	46.6	75.5	99	OFF	OFF	Not Active	Not Neutral
EA0000F0	-8.6	Not Received	47.3	71.5	99	OFF	OFF	Not Active	Not Neutral
EA000100	-8.4	Not Received	47.9	68.5	99	OFF	OFF	Not Active	Not Neutral
EA000110	-8.2	Not Received	48.6	65	99	OFF	OFF	Not Active	Not Neutral
EA000120	-8	Not Received	49.2	60	99	OFF	OFF	Not Active	Not Neutral
EA000130	-7.8	Not Received	49.6	46	28	OFF	OFF	Not Active	Not Neutral
EA000140	-7.6	Not Received	50.2	46.5	27.5	OFF	OFF	Not Active	Not Neutral
EA000150	-7.4	Not Received	50.6	40.5	25.5	OFF	OFF	Not Active	Not Neutral

Buffer Address (Hex)	Relative Time (calc.) (Seconds)	Restraint Deployment Signal (Received / Not Received)	Speed, Vehicle Indicated (MPH)	Accelerator Pedal % Full (%)	Engine Throttle % Full (%)	Brake Switch (On / Off)	Brake SC De-ac (On / Off)	ABS (Active / Inactive)	Transmission - Neutral (Neutral / Not Neutral)
EA000160	-7.2	Not Received	50.8	36.5	24	OFF	OFF	Not Active	Not Neutral
EA000170	-7	Not Received	51.2	33.5	23	OFF	OFF	Not Active	Not Neutral
EA000180	-6.8	Not Received	51.1	33.5	22.5	OFF	OFF	Not Active	Not Neutral
EA000190	-6.6	Not Received	51.6	33.5	22.5	OFF	OFF	Not Active	Not Neutral
EA0001A0	-6.4	Not Received	51.8	34	22	OFF	OFF	Not Active	Not Neutral
EA0001B0	-6.2	Not Received	51.9	33.5	23	OFF	OFF	Not Active	Not Neutral
EA0001C0	-6	Not Received	52.2	33	23	OFF	OFF	Not Active	Not Neutral
EA0001D0	-5.8	Not Received	52.6	34	25	OFF	OFF	Not Active	Not Neutral
EA0001E0	-5.6	Not Received	52.6	31.5	23	OFF	OFF	Not Active	Not Neutral
EA0001F0	-5.4	Not Received	52.8	28	20.5	OFF	OFF	Not Active	Not Neutral
EA000200	-5.2	Not Received	52.9	29	21	OFF	OFF	Not Active	Not Neutral
EA000210	-5	Not Received	53	25.5	19.5	OFF	OFF	Not Active	Not Neutral
EA000220	-4.8	Not Received	53.1	23	18.5	OFF	OFF	Not Active	Not Neutral
EA000230	-4.6	Not Received	53.2	0	13.5	OFF	OFF	Not Active	Not Neutral
EA000240	-4.4	Not Received	53	0	10.5	OFF	OFF	Not Active	Not Neutral
EA000250	-4.2	Not Received	53	19.5	9.5	OFF	OFF	Not Active	Not Neutral
EA000260	-4	Not Received	53	25	16.5	OFF	OFF	Not Active	Not Neutral
EA000270	-3.8	Not Received	53	25.5	17.5	OFF	OFF	Not Active	Not Neutral
EA000280	-3.6	Not Received	52.9	26	18	OFF	OFF	Not Active	Not Neutral
EA000290	-3.4	Not Received	52.9	25.5	18	OFF	OFF	Not Active	Not Neutral
EA0002A0	-3.2	Not Received	52.9	25	18	OFF	OFF	Not Active	Not Neutral
EA0002B0	-3	Not Received	52.9	25	18	OFF	OFF	Not Active	Not Neutral
EA0002C0	-2.8	Not Received	53	19	16	OFF	OFF	Not Active	Not Neutral
EA0002D0	-2.6	Not Received	52.9	19.5	15.5	OFF	OFF	Not Active	Not Neutral
EA0002E0	-2.4	Not Received	52.9	23	17	OFF	OFF	Not Active	Not Neutral
EA0002F0	-2.2	Not Received	52.9	26.5	18.5	OFF	OFF	Not Active	Not Neutral
EA000300	-2	Not Received	52.9	28	19.5	OFF	OFF	Not Active	Not Neutral
EA000310	-1.8	Not Received	53	28.5	20	OFF	OFF	Not Active	Not Neutral
EA000320	-1.6	Not Received	53	27	19.5	OFF	OFF	Not Active	Not Neutral
EA000330	-1.4	Not Received	53	26.5	19	OFF	OFF	Not Active	Not Neutral
EA000340	-1.2	Not Received	53.1	26.5	19	OFF	OFF	Not Active	Not Neutral
EA000350	-1	Not Received	53.1	21.5	17	OFF	OFF	Not Active	Not Neutral
EA000360	-.8	Not Received	53.2	6.5	11.5	OFF	OFF	Not Active	Not Neutral
EA000370	-.6	Not Received	53.1	0	8.5	OFF	OFF	Not Active	Not Neutral
EA000380	-.4	Not Received	52.9	0	7.5	ON	OFF	Not Active	Not Neutral
EA000390	-.2	Not Received	51.5	0	7.5	ON	ON	Not Active	Not Neutral
EA0003A0	0	Not Received	47.7	1	7	ON	ON	Not Active	Not Neutral
EA0003B0	.2	Received	26.8	0	6.5	ON	ON	Not Active	Not Neutral
EA0003C0	.4	Received	28.6	0	6	ON	ON	Not Active	Not Neutral
EA0003D0	.6	Received	25.9	0	6	ON	ON	Not Active	Not Neutral
EA0003E0	.8	Received	27.3	0	5.5	ON	ON	Not Active	Not Neutral
EA0003F0	1	Received	27.8	0	5.5	ON	ON	Not Active	Not Neutral
EA000400	1.2	Received	27.3	0	5.5	ON	ON	Not Active	Not Neutral
EA000410	1.4	Received	26.9	.5	7	ON	ON	Not Active	Not Neutral
EA000420	1.6	Received	5.7	0	5.5	OFF	ON	Not Active	Not Neutral
EA000430	1.8	Received	5.4	0	8.5	OFF	ON	Not Active	Not Neutral
EA000440	2	Received	0	0	9	OFF	ON	Not Active	Not Neutral
EA000450	2.2	Received	2.1	0	9.5	OFF	ON	Not Active	Not Neutral
EA000460	2.4	Received	1.9	0	9	OFF	ON	Not Active	Not Neutral
EA000470	2.6	Received	0	0	9	OFF	ON	Not Active	Not Neutral
EA000480	2.8	Received	3.2	0	9	OFF	ON	Not Active	Not Neutral
EA000490	3	Received	2.7	0	9	OFF	ON	Not Active	Not Neutral
EA0004A0	3.2	Received	2.2	0	9	OFF	ON	Not Active	Not Neutral
EA0004B0	3.4	Received	0	0	9	OFF	ON	Not Active	Not Neutral
EA0004C0	3.6	Received	0	0	9	OFF	ON	Not Active	Not Neutral
EA0004D0	3.8	Received	0	0	9	OFF	ON	Not Active	Not Neutral
EA0004E0	4	Received	0	0	9	OFF	ON	Not Active	Not Neutral
EA0004F0	4.2	Received	0	0	9	OFF	ON	Not Active	Not Neutral
EA000500	4.4	Received	0	0	9	OFF	ON	Not Active	Not Neutral
EA000510	4.6	Received	0	0	9	OFF	ON	Not Active	Not Neutral
EA000520	4.8	Received	0	0	9	OFF	ON	Not Active	Not Neutral
EA000530	5	Received	0	0	9	OFF	ON	Not Active	Not Neutral

## PCM EDR Data (2)

Buffer Address (Hex)	Relative Time (calc.) (Seconds)	Transmission - Reverse (Reverse / Not Reverse)	Speed Control (On / Off)	Engine RPM (RPM)	Driveline Torque Commanded (N-m)	Driveline Torque Actual (N-m)	Traction Control (Active / Inactive)	Stability Control (Active / Inactive)	Key On Timer 63.75 Max (sec) (Seconds)
EA000540	-20.2	Not Reverse	OFF	621.25	11	-7	Not Active	Not Active	63.75
EA000550	-20	Not Reverse	OFF	694.25	10	-8	Not Active	Not Active	63.75
EA000560	-19.8	Not Reverse	OFF	715.25	14	-5	Not Active	Not Active	63.75
EA000570	-19.6	Not Reverse	OFF	703.5	13	-6	Not Active	Not Active	63.75
EA000580	-19.4	Not Reverse	OFF	670.25	12	-7	Not Active	Not Active	63.75
EA000590	-19.2	Not Reverse	OFF	641	11	-8	Not Active	Not Active	63.75
EA0005A0	-19	Not Reverse	OFF	601	12	-7	Not Active	Not Active	63.75
EA0005B0	-18.8	Not Reverse	OFF	628.75	16	-3	Not Active	Not Active	63.75
EA0005C0	-18.6	Not Reverse	OFF	722.25	39	18	Not Active	Not Active	63.75
EA0005D0	-18.4	Not Reverse	OFF	857.25	66	54	Not Active	Not Active	63.75
EA0005E0	-18.2	Not Reverse	OFF	1007.75	98	107	Not Active	Not Active	63.75
EA0005F0	-18	Not Reverse	OFF	1213.5	136	175	Not Active	Not Active	63.75
EA000600	-17.8	Not Reverse	OFF	1407.5	155	219	Not Active	Not Active	63.75
EA000610	-17.6	Not Reverse	OFF	1514.5	174	257	Not Active	Not Active	63.75
EA000620	-17.4	Not Reverse	OFF	1567.5	182	272	Not Active	Not Active	63.75
EA000630	-17.2	Not Reverse	OFF	1618.25	196	295	Not Active	Not Active	63.75
EA000640	-17	Not Reverse	OFF	1760.75	249	385	Not Active	Not Active	63.75
EA000650	-16.8	Not Reverse	OFF	1905.25	271	432	Not Active	Not Active	63.75
EA000660	-16.6	Not Reverse	OFF	2001.75	301	483	Not Active	Not Active	63.75
EA000670	-16.4	Not Reverse	OFF	2110	327	533	Not Active	Not Active	63.75
EA000680	-16.2	Not Reverse	OFF	1989.75	308	590	Not Active	Not Active	63.75
EA000690	-16	Not Reverse	OFF	2110	319	602	Not Active	Not Active	63.75
EA0006A0	-15.8	Not Reverse	OFF	2259.5	331	642	Not Active	Not Active	63.75
EA0006B0	-15.6	Not Reverse	OFF	2331.25	348	671	Not Active	Not Active	63.75
EA0006C0	-15.4	Not Reverse	OFF	2337.5	336	631	Not Active	Not Active	63.75
EA0006D0	-15.2	Not Reverse	OFF	2337.5	329	595	Not Active	Not Active	63.75
EA0006E0	-15	Not Reverse	OFF	2312.25	313	544	Not Active	Not Active	63.75
EA0006F0	-14.8	Not Reverse	OFF	2263.75	303	495	Not Active	Not Active	63.75
EA000700	-14.6	Not Reverse	OFF	2287.5	301	483	Not Active	Not Active	63.75
EA000710	-14.4	Not Reverse	OFF	2307.25	297	468	Not Active	Not Active	63.75
EA000720	-14.2	Not Reverse	OFF	2326.5	299	460	Not Active	Not Active	63.75
EA000730	-14	Not Reverse	OFF	2335.5	294	442	Not Active	Not Active	63.75
EA000740	-13.8	Not Reverse	OFF	2357	292	429	Not Active	Not Active	63.75
EA000750	-13.6	Not Reverse	OFF	2379	293	425	Not Active	Not Active	63.75
EA000760	-13.4	Not Reverse	OFF	2406.75	289	413	Not Active	Not Active	63.75
EA000770	-13.2	Not Reverse	OFF	2416.5	288	405	Not Active	Not Active	63.75
EA000780	-13	Not Reverse	OFF	2457.75	284	399	Not Active	Not Active	63.75
EA000790	-12.8	Not Reverse	OFF	2510.25	296	417	Not Active	Not Active	63.75
EA0007A0	-12.6	Not Reverse	OFF	2538.75	294	414	Not Active	Not Active	63.75
EA0007B0	-12.4	Not Reverse	OFF	2590.5	306	432	Not Active	Not Active	63.75
EA0007C0	-12.2	Not Reverse	OFF	2624.5	317	448	Not Active	Not Active	63.75
EA0007D0	-12	Not Reverse	OFF	2666.5	321	454	Not Active	Not Active	63.75
EA0007E0	-11.8	Not Reverse	OFF	2700.25	319	451	Not Active	Not Active	63.75
EA0007F0	-11.6	Not Reverse	OFF	2735	320	453	Not Active	Not Active	63.75
EA000010	-11.4	Not Reverse	OFF	2772.5	319	452	Not Active	Not Active	63.75
EA000020	-11.2	Not Reverse	OFF	2822	318	449	Not Active	Not Active	63.75
EA000030	-11	Not Reverse	OFF	2859.25	319	451	Not Active	Not Active	63.75
EA000040	-10.8	Not Reverse	OFF	2898.5	320	452	Not Active	Not Active	63.75
EA000050	-10.6	Not Reverse	OFF	2940	321	453	Not Active	Not Active	63.75
EA000060	-10.4	Not Reverse	OFF	2966.75	322	456	Not Active	Not Active	63.75
EA000070	-10.2	Not Reverse	OFF	3006.5	321	453	Not Active	Not Active	63.75
EA000080	-10	Not Reverse	OFF	3036.25	323	457	Not Active	Not Active	63.75
EA000090	-9.8	Not Reverse	OFF	3083.75	321	453	Not Active	Not Active	63.75
EA0000A0	-9.6	Not Reverse	OFF	3119	321	454	Not Active	Not Active	63.75
EA0000B0	-9.4	Not Reverse	OFF	3159	320	453	Not Active	Not Active	63.75
EA0000C0	-9.2	Not Reverse	OFF	3191.25	321	453	Not Active	Not Active	63.75
EA0000D0	-9	Not Reverse	OFF	3234	319	451	Not Active	Not Active	63.75
EA0000E0	-8.8	Not Reverse	OFF	3282.75	322	455	Not Active	Not Active	63.75
EA0000F0	-8.6	Not Reverse	OFF	3314	321	453	Not Active	Not Active	63.75
EA000100	-8.4	Not Reverse	OFF	3363.75	319	450	Not Active	Not Active	63.75
EA000110	-8.2	Not Reverse	OFF	3405.75	325	460	Not Active	Not Active	63.75
EA000120	-8	Not Reverse	OFF	3433.25	329	465	Not Active	Not Active	63.75
EA000130	-7.8	Not Reverse	OFF	3422.25	241	335	Not Active	Not Active	63.75
EA000140	-7.6	Not Reverse	OFF	3453	227	313	Not Active	Not Active	63.75
EA000150	-7.4	Not Reverse	OFF	3468	207	286	Not Active	Not Active	63.75

Buffer Address (Hex)	Relative Time (calc.) (Seconds)	Transmission - Reverse (Reverse / Not Reverse)	Speed Control (On / Off)	Engine RPM (RPM)	Driveline Torque Commanded (N-m)	Driveline Torque Actual (N-m)	Traction Control (Active / Inactive)	Stability Control (Active / Inactive)	Key On Timer 63.75 Max (sec) (Seconds)
EA000160	-7.2	Not Reverse	OFF	3477	187	256	Not Active	Not Active	63.75
EA000170	-7	Not Reverse	OFF	3486.75	173	235	Not Active	Not Active	63.75
EA000180	-6.8	Not Reverse	OFF	3477	165	224	Not Active	Not Active	63.75
EA000190	-6.6	Not Reverse	OFF	3216.75	195	249	Not Active	Not Active	63.75
EA0001A0	-6.4	Not Reverse	OFF	2807.25	191	211	Not Active	Not Active	63.75
EA0001B0	-6.2	Not Reverse	OFF	2438.5	250	227	Not Active	Not Active	63.75
EA0001C0	-6	Not Reverse	OFF	2433	222	198	Not Active	Not Active	63.75
EA0001D0	-5.8	Not Reverse	OFF	2462	230	205	Not Active	Not Active	63.75
EA0001E0	-5.6	Not Reverse	OFF	2472.25	231	207	Not Active	Not Active	63.75
EA0001F0	-5.4	Not Reverse	OFF	2308	206	169	Not Active	Not Active	63.75
EA000200	-5.2	Not Reverse	OFF	2041	240	176	Not Active	Not Active	63.75
EA000210	-5	Not Reverse	OFF	1994	234	163	Not Active	Not Active	63.75
EA000220	-4.8	Not Reverse	OFF	1966.25	213	145	Not Active	Not Active	63.75
EA000230	-4.6	Not Reverse	OFF	1887	162	103	Not Active	Not Active	63.75
EA000240	-4.4	Not Reverse	OFF	1742.5	124	69	Not Active	Not Active	63.75
EA000250	-4.2	Not Reverse	OFF	1648.5	79	39	Not Active	Not Active	63.75
EA000260	-4	Not Reverse	OFF	1661.25	79	38	Not Active	Not Active	63.75
EA000270	-3.8	Not Reverse	OFF	1810.5	171	101	Not Active	Not Active	63.75
EA000280	-3.6	Not Reverse	OFF	1889.25	193	122	Not Active	Not Active	63.75
EA000290	-3.4	Not Reverse	OFF	1909.75	199	129	Not Active	Not Active	63.75
EA0002A0	-3.2	Not Reverse	OFF	1908	198	129	Not Active	Not Active	63.75
EA0002B0	-3	Not Reverse	OFF	1910.25	199	129	Not Active	Not Active	63.75
EA0002C0	-2.8	Not Reverse	OFF	1905.25	196	127	Not Active	Not Active	63.75
EA0002D0	-2.6	Not Reverse	OFF	1828.25	162	98	Not Active	Not Active	63.75
EA0002E0	-2.4	Not Reverse	OFF	1799.5	165	96	Not Active	Not Active	63.75
EA0002F0	-2.2	Not Reverse	OFF	1859.75	193	119	Not Active	Not Active	63.75
EA000300	-2	Not Reverse	OFF	1927.75	210	137	Not Active	Not Active	63.75
EA000310	-1.8	Not Reverse	OFF	1982.25	220	149	Not Active	Not Active	63.75
EA000320	-1.6	Not Reverse	OFF	1990	225	155	Not Active	Not Active	63.75
EA000330	-1.4	Not Reverse	OFF	1971	216	147	Not Active	Not Active	63.75
EA000340	-1.2	Not Reverse	OFF	1957.25	213	143	Not Active	Not Active	63.75
EA000350	-1	Not Reverse	OFF	1934	201	133	Not Active	Not Active	63.75
EA000360	-.8	Not Reverse	OFF	1796	175	106	Not Active	Not Active	63.75
EA000370	-.6	Not Reverse	OFF	1666.75	84	42	Not Active	Not Active	63.75
EA000380	-.4	Not Reverse	OFF	1577.75	34	8	Not Active	Not Active	63.75
EA000390	-.2	Not Reverse	OFF	1534.5	15	-4	Not Active	Not Active	63.75
EA0003A0	0	Not Reverse	OFF	1358	24	1	Not Active	Not Active	63.75
EA0003B0	.2	Not Reverse	OFF	808.75	39	11	Not Active	Not Active	63.75
EA0003C0	.4	Not Reverse	OFF	730	-28	-34	Not Active	Not Active	63.75
EA0003D0	.6	Not Reverse	OFF	679.25	90	45	Not Active	Not Active	63.75
EA0003E0	.8	Not Reverse	OFF	567.25	115	62	Not Active	Not Active	63.75
EA0003F0	1	Not Reverse	OFF	609.75	67	30	Not Active	Not Active	63.75
EA000400	1.2	Not Reverse	OFF	700	80	39	Not Active	Not Active	63.75
EA000410	1.4	Not Reverse	OFF	291	151	91	Not Active	Not Active	63.75
EA000420	1.6	Not Reverse	OFF	291	115	390	Not Active	Not Active	63.75
EA000430	1.8	Not Reverse	OFF	0	140	829	Not Active	Not Active	63.75
EA000440	2	Not Reverse	OFF	0	257	2601	Not Active	Not Active	63.75
EA000450	2.2	Not Reverse	OFF	0	254	2449	Not Active	Not Active	63.75
EA000460	2.4	Not Reverse	OFF	0	254	2326	Not Active	Not Active	63.75
EA000470	2.6	Not Reverse	OFF	0	254	2192	Not Active	Not Active	63.75
EA000480	2.8	Not Reverse	OFF	0	254	2078	Not Active	Not Active	63.75
EA000490	3	Not Reverse	OFF	0	254	1946	Not Active	Not Active	63.75
EA0004A0	3.2	Not Reverse	OFF	0	254	1825	Not Active	Not Active	63.75
EA0004B0	3.4	Not Reverse	OFF	0	254	1691	Not Active	Not Active	63.75
EA0004C0	3.6	Not Reverse	OFF	0	254	1570	Not Active	Not Active	63.75
EA0004D0	3.8	Not Reverse	OFF	0	254	1540	Not Active	Not Active	63.75
EA0004E0	4	Not Reverse	OFF	0	254	1540	Not Active	Not Active	63.75
EA0004F0	4.2	Not Reverse	OFF	0	254	1540	Not Active	Not Active	63.75
EA000500	4.4	Not Reverse	OFF	0	254	1540	Not Active	Not Active	63.75
EA000510	4.6	Not Reverse	OFF	0	254	1540	Not Active	Not Active	63.75
EA000520	4.8	Not Reverse	OFF	0	254	1540	Not Active	Not Active	63.75
EA000530	5	Not Reverse	OFF	0	254	1539	Not Active	Not Active	63.75

## 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.

```
0000100C0: 31 46 54 52 45 31 34 57 32 36 48 41 39 34 39 30
0000100D0: 37 FF FF FF

000010046: 54 42 49 45 31 44 33 2E 48 45 58 2A

000010054: 36 43 32 41 4A 43 20 2A

0EA000000: 05 03 A0 58 00 00 00 00 00 00 00 00 00 00 00
0EA000010: 70 04 C6 2B 52 03 3F 12 F9 03 C4 00 F8 FF 00 3E
0EA000020: 71 04 C6 2C 18 03 3E 13 55 03 C1 00 F8 FF 00 1D
0EA000030: 77 04 C6 2C AD 03 3F 13 AF 03 C3 00 F8 FF 00 25
0EA000040: 87 04 C6 2D 4A 03 40 14 02 03 C4 00 F8 FF 00 21
0EA000050: 9F 04 C6 2D F0 03 41 14 5A 03 C5 00 F8 FF 00 09
0EA000060: C8 04 C6 2E 5B 03 42 14 B5 03 C8 00 F8 FF 00 15
0EA000070: C8 04 C6 2E FA 03 41 15 03 03 C5 00 F8 FF 00 2B
0EA000080: C8 04 C6 2F 71 03 43 15 5A 03 C9 00 F8 FF 00 56
0EA000090: C8 04 C6 30 2F 03 41 15 B2 03 C5 00 F8 FF 00 45
0EA0000A0: C8 04 C6 30 BC 03 41 16 02 03 C6 00 F8 FF 00 66
0EA0000B0: C6 04 C6 31 5C 03 40 16 53 03 C5 00 F8 FF 00 78
0EA0000C0: BE 04 C6 31 DD 03 41 16 A8 03 C5 00 F8 FF 00 A9
0EA0000D0: 9C 04 C6 32 88 03 3F 16 F6 03 C3 00 F8 FF 00 D5
0EA0000E0: 97 04 C6 33 4B 03 42 17 52 03 C7 00 F8 FF 00 E2
0EA0000F0: 8F 04 C6 33 C8 03 41 17 A2 03 C5 00 F8 FF 00 F0
0EA000100: 89 04 C6 34 8F 03 3F 17 F4 03 C2 00 F8 FF 00 E1
0EA000110: 82 04 C6 35 37 03 45 18 47 03 CC 00 F8 FF 00 DB
0EA000120: 78 04 C6 35 A5 03 49 18 9D 03 D1 00 F8 FF 00 18
0EA000130: 5C 04 38 35 79 02 F1 18 D2 03 4F 00 F8 FF 00 94
0EA000140: 5D 04 37 35 F4 02 E3 19 1C 03 39 00 F8 FF 00 F2
0EA000150: 51 04 33 36 30 02 CF 19 4A 03 1E 00 F8 FF 00 C6
0EA000160: 49 04 30 36 54 02 BB 19 6B 03 00 00 F8 FF 00 BE
0EA000170: 43 04 2E 36 7B 02 AD 19 94 02 EB 00 F8 FF 00 9A
0EA000180: 43 04 2D 36 54 02 A5 19 91 02 E0 00 F8 FF 00 D8
0EA000190: 43 04 2D 32 43 02 C3 19 C9 02 F9 00 F8 FF 00 7E
0EA0001A0: 44 04 2C 2B DD 02 BF 19 E9 02 D3 00 F8 FF 00 F5
0EA0001B0: 43 04 2E 26 1A 02 FA 19 F2 02 E3 00 F8 FF 00 68
0EA0001C0: 42 04 2E 26 04 02 DE 1A 18 02 C6 00 F8 FF 00 91
0EA0001D0: 44 04 32 26 78 02 E6 1A 49 02 CD 00 F8 FF 00 D7
0EA0001E0: 3F 04 2E 26 A1 02 E7 1A 48 02 CF 00 F8 FF 00 B5
0EA0001F0: 38 04 29 24 10 02 CE 1A 66 02 A9 00 F8 FF 00 75
0EA000200: 3A 04 2A 1F E4 02 F0 1A 6D 02 B0 00 F8 FF 00 73
0EA000210: 33 04 27 1F 28 02 EA 1A 7A 02 A3 00 F8 FF 00 3F
0EA000220: 2E 04 25 1E B9 02 D5 1A 89 02 91 00 F8 FF 00 CE
0EA000230: 00 04 1B 1D 7C 02 A2 1A 94 02 67 00 F8 FF 00 96
0EA000240: 00 04 15 1B 3A 02 7C 1A 86 02 45 00 F8 FF 00 36
0EA000250: 27 04 13 19 C2 02 4F 1A 83 02 27 00 F8 FF 00 D9
0EA000260: 32 04 21 19 F5 02 4F 1A 7D 02 26 00 F8 FF 00 94
0EA000270: 33 04 23 1C 4A 02 AB 1A 7D 02 65 00 F8 FF 00 9E
0EA000280: 34 04 24 1D 85 02 C1 1A 73 02 7A 00 F8 FF 00 3F
0EA000290: 33 04 24 1D D7 02 C7 1A 76 02 81 00 F8 FF 00 DE
0EA0002A0: 32 04 24 1D D0 02 C6 1A 77 02 81 00 F8 FF 00 E6
0EA0002B0: 32 04 24 1D D9 02 C7 1A 78 02 81 00 F8 FF 00 DB
0EA0002C0: 26 04 20 1D C5 02 C4 1A 7E 02 7F 00 F8 FF 00 FE
0EA0002D0: 27 04 1F 1C 91 02 A2 1A 78 02 62 00 F8 FF 00 78
0EA0002E0: 2E 04 22 1C 1E 02 A5 1A 77 02 60 00 F8 FF 00 E1
0EA0002F0: 35 04 25 1D 0F 02 C1 1A 76 02 77 00 F8 FF 00 B3
0EA000300: 38 04 27 1E 1F 02 D2 1A 79 02 89 00 F8 FF 00 77
0EA000310: 39 04 28 1E F9 02 DC 1A 7B 02 95 00 F8 FF 00 83
0EA000320: 36 04 27 1F 18 02 E1 1A 81 02 9B 00 F8 FF 00 56
0EA000330: 35 04 26 1E CC 02 D8 1A 82 02 93 00 F8 FF 00 B5
0EA000340: 35 04 26 1E 95 02 D5 1A 8E 02 8F 00 F8 FF 00 E7
0EA000350: 2B 04 22 1E 38 02 C9 1A 90 02 85 00 F8 FF 00 66
0EA000360: 0D 04 17 1C 10 02 AF 1A 9A 02 6A 00 F8 FF 00 E4
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0EA000370: 00 04 11 1A 0B 02 54 1A 92 02 2A 00 F8 FF 00 A1  
0EA000380: 00 05 0F 18 A7 02 22 1A 75 02 08 00 F8 FF 00 79  
0EA000390: 00 07 0F 17 FA 02 0F 19 C4 01 FC 00 F8 FF 00 F7  
0EA0003A0: 02 07 0E 15 38 02 18 17 DE 02 01 00 F8 FF 00 93  
0EA0003B0: 00 07 0D 0C A3 02 27 0D 68 02 0B 01 F8 FF 00 9A  
0EA0003C0: 00 07 0C 0B 68 01 E4 0E 48 01 DE 01 F8 FF 00 68  
0EA0003D0: 00 07 0C 0A 9D 02 5A 0C F8 02 2D 01 F8 FF 00 BF  
0EA0003E0: 00 07 0B 08 DD 02 73 0D A5 02 3E 01 F8 FF 00 AA  
0EA0003F0: 00 07 0B 09 87 02 43 0D E5 02 1E 01 F8 FF 00 0F  
0EA000400: 00 07 0B 0A F0 02 50 0D A6 02 27 01 F8 FF 00 CE  
0EA000410: 01 07 0E 04 8C 02 97 0D 71 02 5B 01 F8 FF 00 EE  
0EA000420: 00 06 0B 04 8C 02 73 02 DB 03 86 01 F8 FF 00 8C  
0EA000430: 00 06 11 00 00 02 8C 02 B8 05 3D 01 F8 FF 00 67  
0EA000440: 00 06 12 00 00 03 01 00 00 0C 29 01 F8 FF 00 B7  
0EA000450: 00 06 13 00 00 02 FE 01 0F 0B 91 01 F8 FF 00 43  
0EA000460: 00 06 12 00 00 02 FE 00 F2 0B 16 01 F8 FF 00 DD  
0EA000470: 00 06 12 00 00 02 FE 00 00 0A 90 01 F8 FF 00 56  
0EA000480: 00 06 12 00 00 02 FE 01 96 0A 1E 01 F8 FF 00 31  
0EA000490: 00 06 12 00 00 02 FE 01 55 09 9A 01 F8 FF 00 F7  
0EA0004A0: 00 06 12 00 00 02 FE 01 17 09 21 01 F8 FF 00 AE  
0EA0004B0: 00 06 12 00 00 02 FE 00 00 08 9B 01 F8 FF 00 4D  
0EA0004C0: 00 06 12 00 00 02 FE 00 00 08 22 01 F8 FF 00 C6  
0EA0004D0: 00 06 12 00 00 02 FE 00 00 08 04 01 F8 FF 00 E4  
0EA0004E0: 00 06 12 00 00 02 FE 00 00 08 04 01 F8 FF 00 E4  
0EA0004F0: 00 06 12 00 00 02 FE 00 00 08 04 01 F8 FF 00 E4  
0EA000500: 00 06 12 00 00 02 FE 00 00 08 04 01 F8 FF 00 E4  
0EA000510: 00 06 12 00 00 02 FE 00 00 08 04 01 F8 FF 00 E4  
0EA000520: 00 06 12 00 00 02 FE 00 00 08 04 01 F8 FF 00 E4  
0EA000530: 00 06 12 00 00 02 FE 00 00 08 03 01 F8 FF 00 E5  
0EA000540: 00 05 09 09 B5 02 0B 08 8F 01 F9 00 F8 FF 00 9F  
0EA000550: 00 05 09 0A D9 02 0A 08 34 01 F8 00 F8 FF 00 D7  
0EA000560: 00 05 09 0B 2D 02 0E 08 18 01 FB 00 F8 FF 00 97  
0EA000570: 00 05 09 0A FE 02 0D 07 C1 01 FA 00 F8 FF 00 21  
0EA000580: 00 04 09 0A 79 02 0C 07 8F 01 F9 00 F8 FF 00 DB  
0EA000590: 00 04 09 0A 04 02 0B 07 7F 01 F8 00 F8 FF 00 62  
0EA0005A0: 10 04 0A 09 64 02 0C 07 56 01 F9 00 F8 FF 00 19  
0EA0005B0: 19 04 0E 09 D3 02 10 07 76 01 FD 00 F8 FF 00 75  
0EA0005C0: 1E 04 11 0B 49 02 27 07 8C 02 12 00 F8 FF 00 B2  
0EA0005D0: 22 04 14 0D 65 02 42 07 6A 02 36 00 F8 FF 00 70  
0EA0005E0: 2B 04 18 0F BF 02 62 07 84 02 6B 00 F8 FF 00 98  
0EA0005F0: 2B 04 1B 12 F6 02 88 07 A3 02 AF 00 F8 FF 00 D2  
0EA000600: 2E 04 1E 15 FE 02 9B 07 CA 02 DB 00 F8 FF 00 5B  
0EA000610: 2D 04 1F 17 AA 02 AE 07 EA 03 01 00 F8 FF 00 53  
0EA000620: 33 04 21 18 7E 02 B6 08 10 03 10 00 F8 FF 00 38  
0EA000630: 3C 04 26 19 49 02 C4 08 53 03 27 00 F8 FF 00 F6  
0EA000640: 50 04 34 1B 83 02 F9 08 A1 03 81 00 F8 FF 00 BB  
0EA000650: 5D 04 36 1D C5 03 0F 08 D8 03 B0 00 F8 FF 00 EB  
0EA000660: 71 04 45 1F 47 03 2D 09 3C 03 E3 00 F8 FF 00 8E  
0EA000670: 74 04 5C 20 F8 03 47 09 95 04 15 00 F8 FF 00 1C  
0EA000680: 74 04 73 1F 17 03 34 09 C1 04 4E 00 F8 FF 00 95  
0EA000690: 6F 04 60 20 F8 03 3F 0A 56 04 5A 00 F8 FF 00 1E  
0EA0006A0: 6E 04 6A 23 4E 03 4B 0A DB 04 82 00 F8 FF 00 03  
0EA0006B0: 6B 04 64 24 6D 03 5C 0B 54 04 9F 00 F8 FF 00 44  
0EA0006C0: 65 04 48 24 86 03 50 0B D5 04 77 00 F8 FF 00 00  
0EA0006D0: 5E 04 41 24 86 03 49 0C 60 04 53 00 F8 FF 00 AD  
0EA0006E0: 5D 04 3D 24 21 03 39 0C C2 04 20 00 F8 FF 00 F8  
0EA0006F0: 5B 04 3F 23 5F 03 2F 0D 4B 03 EF 00 F8 FF 00 6D  
0EA000700: 57 04 40 23 BE 03 2D 0D 99 03 E3 00 F8 FF 00 D1  
0EA000710: 57 04 40 24 0D 03 29 0D EB 03 D4 00 F8 FF 00 42  
0EA000720: 58 04 41 24 5A 03 2B 0E 51 03 CC 00 F8 FF 00 92  
0EA000730: 58 04 40 24 7E 03 26 0E B5 03 BA 00 F8 FF 00 22  
0EA000740: 5A 04 41 24 D4 03 24 0E FF 03 AD 00 F8 FF 00 8E  
0EA000750: 5A 04 42 25 2C 03 25 0F 5A 03 A9 00 F8 FF 00 DB  
0EA000760: 59 04 40 25 9B 03 21 0F B3 03 9D 00 F8 FF 00 26  
0EA000770: 59 04 3F 25 C2 03 20 0F FF 03 95 00 F8 FF 00 BD  
0EA000780: 5D 04 44 26 67 03 1C 10 58 03 8F 00 F8 FF 00 BE  
0EA000790: 61 04 4A 27 39 03 28 10 AB 03 A1 00 F8 FF 00 70  
0EA0007A0: 62 04 47 27 AB 03 26 10 ED 03 9E 00 F8 FF 00 C3  
0EA0007B0: 67 04 51 28 7A 03 32 11 47 03 B0 00 F8 FF 00 6B  
0EA0007C0: 6C 04 75 29 02 03 3D 11 9F 03 C0 00 F8 FF 00 46  
0EA0007D0: 73 04 C7 29 AA 03 41 11 F8 03 C6 00 F8 FF 00 E2  
0EA0007E0: 77 04 C6 2A 31 03 3F 12 4D 03 C3 00 F8 FF 00 06

0EA0007F0: 78 04 C6 2A BC 03 40 12 AB 03 C5 00 F8 FF 00 19

## Comments

2006 Ford Econoline thru DLC

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