

Engine System Information (ESI) Input Data Record Layout

Field Name	Transaction Type								Position	Length	Data Type	Valid Range/Entry Criteria
	R	A	M	R	D	R	C	R				
Input Record Type	E1	R	R	R	R	R			1-2	2	A	E1
Process Code	E1	R	R	R	R	R			3-3	1	A	For Add: 'A' or blank - '' For Modify: 'M' For Replace: 'R' For Delete: 'D' For Report: 'P' For Cancel: 'F' For Reactivate: 'G'
Engine Family/ Test Group Name	E1	R	R	R	R	R			5-16	12	A	Valid ENGINE FAMILY/TEST GROUP NAME
System Number	E1	R	X	X	X	X			18-19	2	I	Note: Enter '01' or '1' for 2001 and later model year 01-99
Special Compliance Indicator Code	E1	R	R	R	R				21-21	1	A	'Y' or 'N' (Not currently used – will default to 'N')
Alternate Displacement 1	E1	X	X	X					23-30	8 (7,3)	R	Enter X.X for liters. (X)XX for CID. (X)XXX for cubic centimeters. Do not enter leading zeroes.
Alternate Displacement 2	E1	X	X	X					32-39	8 (7,3)	R	Enter X.X for liters. (X)XX for CID. (X)XXX for cubic centimeters. Do not enter leading zeroes.
Alternate Displacement 3	E1	X	X	X					41-48	8 (7,3)	R	Enter X.X for liters. (X)XX for CID. (X)XXX for cubic centimeters. Do not enter leading zeroes.
Combustion Cycle	E1	X							50-50	1	A	Note: Field required on an Add Transaction if no Engine Systems exist for the Engine Family/Test Group. G - Otto Cycle Piston D - Diesel Cycle R - Otto Cycle Rotary 2 - Two Stroke Cycle T - Turbine H - Hybrid E - Electric C - Fuel Cell A - Other

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	R	A	M	R	D	R	C	R				
Ignition Type	E1	R		R					52-52	1	A	<i>Note:</i> Field required if the Durability Group Name entered on 'ER' Record has not been entered previously. S - Spark C - Compression N - Not Applicable
Basic Fuel Metering System	E1	R		R					54-55	2	I	<i>Note:</i> Field required if the Durability Group Name entered on 'ER' Record has not been entered previously. 5 - TBI 12 - Port Fuel Injection 13 - Carburetor 14 - CNG Mixer Unit 15 - Bifuel - Two Separate Fuel Systems 16 - Direct Fuel Injection 17 - LPG Mixer Unit 98 - None (Electric) 99 - Other (Contact EPA Prior to Use)
Valves per Cylinder	E1	R		R					57-58	2	I	<i>Note:</i> Field required if the Durability Group Name entered on 'ER' Record has not been entered previously. 2 - 2 3 - 3 4 - 4 5 - 5 6 - 6 7 - 7 8 - 8 9 - 2 and 3 and 4 23 - 2 and 3 24 - 2 and 4 34 - 3 and 4 45 - 4 and 5 99 - Other

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	R	A	M	R	D	R	C	R				
Turbocharger Supercharger	E1	R		R					60-60	1	A	<i>Note:</i> Field required if the Durability Group Name entered on 'ER' Record has not been entered previously. T - Turbocharger S - Supercharger N - None A - None and Turbocharger - CAP2000 B - None and Supercharger - CAP2000 C - Turbocharger and Supercharger - CAP2000 D - None and Turbocharger and Supercharger - (CAP2000)
Catalyst Construction	E1	R		R					62-63	2	I	<i>Note:</i> Field required if the Durability Group Name entered on 'ER' Record has not been entered previously. 8 - No Catalyst 9 - Unheated Monolith Catalyst 10 - Heated Monolith Catalyst 11 - Unheated Metal Catalyst 12 - Heated Metal Catalyst 13 - Unheated Beaded Catalyst 14 - Heated Beaded Catalyst 15 - Unheated Monolith and Metal Catalyst 16 - Heated Monolith and Metal Catalyst 99 - Other (Contact EPA Prior to Use)
Trap (Particulates)	E1	R		R					65-66	2	I	<i>Note:</i> Field required if the Durability Group Name entered on 'ER' Record has not been entered previously. 0 - None 1 - Trap - Active Regeneration 2 - Trap - Continuous Regeneration 3 - Trap - Continuous Regen + Fuel Additive 99 - Other (Contact EPA prior to use)
California OBD	E1	X							68-68	1	A	<i>Note:</i> Field required on an Add Transaction if no Engine Systems exist for the Engine Family/Test Group. N - No OBD 2 - CARB OBD II
Federal OBD	E1	X							70-70	1	A	<i>Note:</i> Field required on an Add Transaction if no Engine Systems exist for the Engine Family/Test Group. Y - OBD C - Calif. OBD N - No OBD

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	R	A	M	R	D	R	C	R				
Record Type												
Projected Job 1 Date	E1	X	X	X					72-79	8	D	<i>Note:</i> Business rule error if the value after update is blank or null. Valid calendar date. (MMDDYYYY) MM = month DD = day
Trip Point	E1	X	X	X					81-86	6	I	000000-999999 or <i>blank</i> . (Generally not used.)
Production Model Year Code	E1	X							88-88	1	I	<i>Note:</i> Indicates the number of years earlier than the certification model year. 0 - 5 (Applies to ICI only.)
Preconversion Model Year Code	E1	X							90-90	1	I	<i>Note:</i> Indicates the number of years earlier than the certification model year. 0 - 5 (Applies to conversions only.)
CAP2000	E1	X		X					91	1	A	<i>Note:</i> Default is '2'. 0 - Prior to CAP2000 1 - CAP2000 (Early opt-in) 2 - Full CAP2000 (with Durability Group data)
SFTP Compliance	E1	X	X	X					93	1	A	Y or N (default)
SFTP Composite CO option for Tier 1 or TLEV or other applicable tier levels	E1	X	X	X					94	1	A	Y or N (default)
Tier 2 Program	E1	X	X	X					96-99	4	A	T2 - Tier 2 INT - Interim Non-Tier 2 blank or 'NA' - Not applicable
Input Record Type	ER	R		R					1-2	2	A	ER DURABILITY GROUP RECORD
Durability Group Name	ER	R		R					5-16	12	A	ER record is required to be placed between E1 and ZZ records.

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	R	A	M	D	R	C	R	R				
Catalyst Precious Metal Combination	ER	R		R					18-19	2	I	Required if the DG (Durability Group) Name is not in the data base. 0 - Not applicable 1 - Platinum based oxidation catalyst 2 - Palladium based oxidation catalyst 3 - Platinum and palladium oxidation catalyst 4 - Platinum and rhodium three-way catalyst 5 - Palladium and rhodium three-way catalyst 6 - Platinum and palladium and rhodium three-way catalyst
Fuel Combination	ER	R		R					21-21	1	A	Required if the DG (Durability Group) Name is not in the data base. S - Single fuel D - Dual fuel F - Flexible fuel
Input Record Type	ED	R			R				1-2	2	A	The ED Record has been removed. This Record is no longer required and should not be submitted.
Input Record Type OBSOLETE	EE	R			R				1-2	2	A	OBSOLETE
Input Record Type	EC	R	R	R					1-2	2	A	EC
Comment	EC	X	X	X					3-80	78	A	<i>Note:</i> Comment text is appended to the end of any existing comment text for Engine System. Text
EOT Input Record Type Code	ZZ	R	R	R	R	R	R	R	1-2	2	A	ZZ - End of Transaction
Input Record Type	E2	R	R	R	R	R	R	R	1-2	2	A	E2

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	R e c o r d T y p e	A d d	M o d i f y	R e p l a c e	D e l e t e	R e p o r t	C a n c e l	R e a c t i v a t e				
Process Code	E2	X	R	R	R	R	R	R	3-3	1	A	For Add: 'A' or blank - '' For Modify: 'M' For Replace: 'R' For Delete: 'D' For Report: 'P' For Cancel: 'F' For Reactivate: 'G'
Test Group Name	E2	R	R	R	R	R	R	R	5-16	12	A	Valid TEST GROUP NAME
Engine System Number	E2	R	R	R	R	R	R	R	18-19	2	I	Note: Enter '01' or '1' for 2001 and later model year 01-99
Engine Subsystem Number	E2	R	R	R	R	R	R	R	21-21	1	I	1-9
Model Year	E2	X	X	X					23-26	4	I	Note: Defaults to derived Engine Family/Test Group Model Year 1970-2100 (Leave blank.)
Sales Area Code	E2	R	R	R					28-29	2	A	CA - California + 177 States (includes California Tier 1, TLEV-I, LEV-I, ULEV-I, SULEV-I, LEV-II, LEV-II Opt I, ULEV-II, SULEV-II and ZEV vehicles) FA - Federal Tier 2 (Bins 1-11); Federal Interim Non-Tier 2 (Bins 1-11); Federal All Altitude (Tier 1 for LDV, LLDT; Tier 1, LEV or ULEV, for HLDT, which becomes obsolete in 2004 for all except small volume hardship vehicles and HLDTs certified via 86.1811-04(1)(2)(vii); obsolete in 2005 for all vehicles). NL - NLEV - All States Trading Region (TLEV, LEV, ULEV, ZEV). May be used in combination with FA Tier 2 (Bins 1-11) for early Tier 2 credits or with FA Interim Non-Tier 2 (Bin 1-11); obsolete in 2004. CF - Federal Clean Fueled Fleet Areas (LEV, ULEV, ILEV, ZEV) If Certified to Same Standards: CL - CA + NL (Obsolete in 2004) NF - CA + NL + CF (Obsolete in 2004) FC - Federal and California - Tier 2 only

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	R e c o r d T y p e	A d d	M o d i f y	R e p l a c e	D e l e t e	R e p o r t	C e n s e	R e a c t i v a t e				
Projected Sales OBSOLETE	E2	X	X	X					31-37	7	I	OBSOLETE
Actual Production OBSOLETE	E2	X	X	X					39-45	7	I	OBSOLETE
DF Type (DF Determination Method)	E2	M	X	M					47-47	1	A	ESI 1-9, X, W, Z '1' - Std. AMA/full miles '5' - ASADP/full miles '6' - ASADP/bench '7' - Mfr. assigned '8' - EPA assigned '9' - LDT self approved 'A' - Aged Components installed on the emission data vehicle 'B' - Bifuel - Two separate DF types
GVW Category	E2	R		R					49-54	6	A	FHLDT - Heavy Light Duty Truck FLDV - Light Duty Vehicle FLLDT - Light Light Duty Truck FLDT - Light Duty Truck CLDV - California Light Duty Vehicle CLDT - California Light Duty Truck GVWR <8501 CMDV - California Medium Duty Vehicle FLD - LDV/LDT1 CLD - California LDV/LDT1 MDPV - Medium Duty Passenger Vehicles FVT - Federal Light Duty Vehicle or Truck CVT - California Light Duty Vehicle or Truck FHDV1 - Federal Heavy Duty Chassis GVWR 8501-10000 FHDV2 - Federal Heavy Duty Chassis GVWR 10001-14000 MDV6 - California MDV, GVWR 8501-10000 MDV7 - California MDV, GVWR 10001-14000

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	R e c o r d T y p e	A d d	M o d i f y	R e p l a c e	D e l e t e	R e p o r t	C a n c e l	R e a c t i v a t e				
Vehicle Class	E2	R		R					56-57	2	A	Federal Only: T3 - LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000) T5 - LDT3 (ALVW 3751-5750, LVW > 3750, GVW > 6000) T4 - LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) T6 - LDT4 (ALVW > 5750, LVW > 3750, GVW > 6000) MD - MDPV (Federal Tier 2, GVWR 8501-10000) H1 - HDV1 (Federal HD Chassis GVW 8501-10000) H2 - HDV2 (Federal HD Chassis GVW 10001-14000) Federal and California: V - LDV T1 - LDT1 (LVW <3750, GVW 0-6000)) T2 - LDT2 (LVW 3751-5750, GVW 0-6000) VT - LDV and LDT1 California Only: M2 - MDV2 (ALVW 3751-5750, GVW > 6000) M3 - MDV3 (ALVW 5751-8500, GVW > 6000) M4 - MDV4 (ALVW 8501-10000, GVW > 6000) M5 - MDV5 (ALVW 10001-14000, GVW > 6000) M6 - MDV6 (Cal. LEV 2 MDV GVW 8501-10000) M7 - MDV7 (Cal. LEV 2 MDV GVW 10001-14000)
Input Record Type	ES	R	R	R	R				1-2	2	A	ES
Process Code	ES	R	R	R	R				3-3	1	A	For Add: 'A' or blank - '' For Modify: 'M' For Replace: 'R' For Delete: 'D'

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	R e c o r d T y p e	A d d	M o d i f y	R e p l a c e	D e l e t e	R e p o r t	C a l c u l a t e	R e a c t i v a t e				
Emission Standards Fuel Type Code	ES	R	R	R	R				5-7	3	A	G - Gasoline D - Diesel M - Methanol E - Ethanol C - Compressed Natural Gas (1994-1997) L - Liquid Petroleum Gas (1994-1997) CNG - Compressed Natural Gas (1998 & later) LNG - Liquefied Natural Gas LPG - Liquid Petroleum Gas (1998 & later) N - Not Applicable
Exhaust Emission Standard Code OBSOLETE	ES	X		X					9-10	2	A	OBSOLETE
Input Record Type	EG	R	R	R	R				1-2	2	A	EG
Process Code	EG	R	R	R	R				3-3	1	A	For Add: 'A' or blank - '' For Modify: 'M' For Replace: 'R' For Delete: 'D'
Useful Life	EG	R	R	R	R				5-7	3	A	000-999, N/A (In Thousands of Miles)
Cert / In Use Code	EG	X	R	R	R				9-9	1	A	'C' - Certification (Default) 'I' - In Use '2' - Cert '3' - Cert '4' - Cert Codes '2', '3' or '4' may be used to handle special cases as in testing with aged components where results from testing with full useful life aged components fail to meet 50K standards.

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	R e c o r d T y p e	A d d	M o d i f y	R e p l a c e	D e l e t e	R e p o r t	C a n c e l	R e a c t i v a t e				
Tier/Standards	EG	R	R	R	R				11-14	4	A	T0 - Tier 0 T1 - Tier 1 ILEV - Inherently Low Emission Vehicle (Can only be used with CF Sales Area Code in the E2 Record, Position 28-29) TLEV - California only - Transitional Low Emission Vehicle - LEV-I Standards LEV - Low Emission Vehicle - LEV-I Standards ULEV - Ultra Low Emission Vehicle - LEV-I Standards SLEV - Super Ultra Low Emission Vehicle - LEV-I Standards ZEV - Zero Emission Vehicle N/A - Not Applicable B1 - Bin 1 (Federal Tier 2 or Interim Non-Tier 2 Bin 1 Standards) B2 - Bin 2 (Federal Tier 2 or Interim Non-Tier 2 Bin 2 Standards) B3 - Bin 3 (Federal Tier 2 or Interim Non-Tier 2 Bin 3 Standards) B4 - Bin 4 (Federal Tier 2 or Interim Non-Tier 2 Bin 4 Standards) B5 - Bin 5 (Federal Tier 2 or Interim Non-Tier 2 Bin 5 Standards) B6 - Bin 6 (Federal Tier 2 or Interim Non-Tier 2 Bin 6 Standards) B7 - Bin 7 (Federal Tier 2 or Interim Non-Tier 2 Bin 7 Standards) B8 - Bin 8 (Federal Tier 2 or Interim Non-Tier 2 Bin 8 Standards) B9 - Bin 9 (Federal Tier 2 or Interim Non-Tier 2 Bin 9 Standards) B10 - Bin 10 (Federal Tier 2 or Interim Non-Tier 2 Bin 10 Standards) B11 - Bin 11 (Federal Tier 2 or Interim Non-Tier 2 Bin 11 Standards) L2 - LEV-II LEV (California LEV-II LEV Standards) L20 - LEV-II Opt 1 (California LEV-II LEV/Option 1 Standards) U2 - LEV-II ULEV (California LEV-II ULEV Standards) S2 - LEV-II SULEV (California LEV-II SULEV Standards) HDV - Federal Heavy Duty Chassis Standards

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Field Name	R e c o r d T y p e	A d d	M o d i f y	R e p l a c e	D e l e t e	R e p o r t	C a n c e l	R e a c t i v a t e	P o s i t i o n	L e n g t h	D a t a T y p e	Valid Range/Entry Criteria
Emission Name	EG	R	R	R	R				16-31	16	A	HC-TOTAL - Total hydrocarbon CO - Carbon monoxide CO2 - Carbon dioxide NOX - Oxides of nitrogen PM - Particulate emissions HC-NM - Non-methane hydrocarbon HC-IDLE - Idle HC CO-IDLE - Idle CO CO-COLD - Cold CO HC-ST2500 - Short test 2500 RPM HC CO-ST2500 - Short test 2500 RPM CO HC-STLM - Short test loaded mode HC CO-STLM - Short test loaded mode CO HC-STI - Short test idle HC CO-STI - Short test idle CO OMHCE - Organic material hydrocarbon equivalent OMNMHCE - Organic material non-methane hydrocarbon equivalent NMOG - Non-methane organic gases (California) NOX-HWY - Highway Nox (California) HCHO - Formaldehyde H3C2HO - Acetaldehyde HCHO-COLD - Cold test formaldehyde HC-TOTAL-COLD - Cold test total hydrocarbon NOX-COLD - Cold test oxides of nitrogen CO2-COLD - Cold test carbon dioxide 50-HC - 50° Test total hydrocarbons 50-CO - 50° Test carbon monoxide 50-NOX - 50° Test oxides of nitrogen 50-NMOG - 50° Test Non-methane organic gas (NLEV, CFF, California). NMOG emission values should be adjusted by the RAF, but should not include the DF. 50-HCHO - 50° Test formaldehyde

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Emission Name (Continued)	EG	R	R	R	R				16-31	16	A	New emission names applicable to SFTP HC-NM-US06 - Non-methane hydrocarbon for US06 NOX-US06 - Nitrogen oxide for US06 HC-NM+NOX-US06 - HC-NM+NOX for US06 CO-US06 - Carbon monoxide for US06 PM-US06 - Particulate emissions for US06 HC-NM-SC03 - Non-methane hydrocarbon for SC03 NOX-SC03 - Nitrogen oxide for SC03 HC-NM+NOX-SC03 - HC-NM+NOX for SC03 CO-SC03 - Carbon monoxide for SC03 PM-SC03 - Particulate emissions for SC03 HC-NM+NOX-COMP - Composite (FTP, US06, SC03) of HC-NM+NOX (SFTP) CO-COMP - SFTP Composite CO PM-COMP - SFTP Composite PM
Emission Standard	EG	X	X	X					33-40	8 (7,4)	R	<i>Note:</i> 1. The system shall support the entry of emission standards by the user and may additionally provide default values if EPA has applicable standards. <i>Note:</i> 2. To promote proper rounding of certification values in accordance with 40 CFR 1728-99(g), the emission standards for Federal TLEV, LEV, and ULEV vehicles and all California vehicles should be reported to one significant figure beyond the number of significant figures contained in the standard (not applicable to total HC, OMHCE, or Spitback emissions). For example, a 0.2 g/mi NOx standard should be reported as 0.20. 000.0000 - 999.9999 Business rule error if the value after update is blank or null.
Phase In Percentage OBSOLETE	EG	X	X	X					42-44	3	I	OBSOLETE
Multiplicative DF	EG	X	X	X					46-50	5 (4,3)	R	<i>Note:</i> This field shall be stored in the database as entered by the user, however CFEIS processes that use this field shall use the value 1 when the value entered is less than 1. 0.000 - 9.999

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	R e c o r d T y p e	A d d	M o d i f y	R e p l a c e	D e l e t e	R e p o r t	C a l c u l a t e	R e a c t i v a t e				
Additive DF	EG	X	X	X					52-60	9 (7,6)	R	<i>Note:</i> This field shall be stored in the database as entered by the user, however CFEIS processes that use this field shall use the value 0 when the value entered is less than 0. -9.999999 - 9.999999
Averaging Flag OBSOLETE	EG	X	X	X					62-62	1	A	OBSOLETE
Banking and Trading Indicator OBSOLETE	EG	X	X	X					64-64	1	A	OBSOLETE
Non-Compliance Penalty Flag OBSOLETE	EG	X	X	X					66-66	1	A	OBSOLETE
Waiver Flag OBSOLETE	EG	X	X	X					68-68	1	A	OBSOLETE
Reactivity Factor (RAF)	EG	X	X	X					70-74	5	R	Reactivity Factor (NMOG, 50-NMOG, Methane) <i>Note:</i> For Tier 2 (Bin 1 through 11) emissions it will be defaulted to 1.0 for NMOG and 0.0 for Methane.
Input Record Type	ET	R	R	R					1-2	2	A	ET
Comment	ET	X	X	X					3-80	78	A	<i>Note:</i> Comment text is appended to the end of any existing comment text for Engine Subsystem. Text
EOT Input Record Type Code	ZZ	R	R	R	R	R	R	R	1-2	2	A	ZZ - End of Transaction

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