

CSI FORM NUMBER (New)	Data Element Name	Data Element Long Name	Text on Web input form	Text on the summary form	proposed harmonized database field name	Required?	collected from mfr	Notes	Format	data value/ range/ example	Applicable to Sales area (SALE_LOC):	Applicable to vehicle category (Veh_Cat):	Applicable to test procedure (TEST_P):	Applicable to ABT status (ABT_STA)	validation rule1	validation rule2	validation rule3	Description or help menu item
95	EPA_mfr_cklist	EPA manufacturer self checklist	(None)	EPA mfr check list:					date									
96	EPA_app_date	EPA application accept date	(None)	EPA Application Submission Date:	EPA_app_date	N	N	EPA system acceptance Date as submitted by mfr	date	yyyy/mm/dd	all	all	all	all				**THIS FIELD SHOULD NOT BE PART OF HELP GLOSSARY. This field will not be submitted by the manufacturers and therefore will not be part of the CDX interactive web screens. This is a date stamp applied by system to document the date the data set was validated and submitted by the manufacturer. This date should be displayed on internal EPA reports.
97	CARB_app_date	CARB application accept date	(None)	CARB Application Submission Date:	CARB_app_date	N	N	CARB system acceptance Date as submitted by mfr	date	yyyy/mm/dd	all	all	all	all				**THIS FIELD SHOULD NOT BE PART OF HELP GLOSSARY. This field will not be submitted by the manufacturers and therefore will not be part of the CDX interactive web screens. This is a date stamp applied by system to document the date the data set was validated and submitted by the manufacturer. This date should be displayed on internal CARB reports.
98	EPA_CC_NUM	EPA certificate of conformity number	(None)	internal use EPA Certificate of Conformity #:	EPA_CC_NUM	N	N	staff enter or system generate this number	A(20)		all	all	all	all				**THIS FIELD SHOULD NOT BE PART OF HELP GLOSSARY. This field will not be submitted by the manufacturers and therefore will not be part of the CDX interactive web screens. This is a post review field that would be entered by the reviewing agency staff. This date should be displayed on internal EPA reports.
99	CARB_EO_NUM	CARB Executive Order Number	(None)	internal use only CARB Executive Order #:	CARB_EO_NUM	N	N	CARB staff enters this field value after review of database and application	A(15)		all	all	all	all				**THIS FIELD SHOULD NOT BE PART OF HELP GLOSSARY. This field will not be submitted by the manufacturers and therefore will not be part of the CDX interactive web screens. This is post review field where the reviewing agency staff will enter the field value. This date should be displayed on internal CARB reports.
100	model_yr	model year	Model Year	Model Year	model_yr	Y	Y	Drop-down Menu: 2005-2020	I(4)	2005~2020	all	all	all	all	always start drop menu with CY for model year selection to CY+15 years for display			Select the applicable model year for this engine family.
101	date-fee	date of epa certification fee paid	Enter the date of the EPA certification fee paid (in format: YYYY/MM/DD)	EPA certification Fee Paid Date:	date-fee	Y	Y	enter the fee payment date	YYYY/MM/DD	20040507	all	all	all	all	stop process, if this date is not entered and display a reminder window that says "Please pay appropriate EPA certification fee before submitting your application".	The date must be early than the CSI submission date (not the file save date).		Enter the date of the EPA certification fee paid in the format of YYYY/MM/DD

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102	mfr_name	manufacturer name	Full legal name of US Manufacturer/ US Importer:	US Manufacturer /US Importer	mfr_name	Y	Y	free text for now {After mfr code system is completed, CDX enters the full legal name of U.S. manufacturer or U.S. importer}	A65	Text for now (mfr table/dat from EPA in the future)	all	all	all	all				Enter the full legal name of the U.S. manufacturer, U.S. U.S. importer, or U.S. representative seeking an EPA Certificate of Conformity and/or California ARB Executive Order (also referred to as the certificate holder). {Note for internal use: This field won't be filled in by the mfr once the mfr code system is implemented.}
103	parentCO_name	parent company name	Parent company name, if applicable. (Enter "NA" if your company is not owned by another company)	If importer, list Parent Engine Company Name, as applicable:	parentCO_name	N	Y	text	A65	text	all	all	all	all				Enter "NA" if your company is not owned by another company. If your company (the manufacturer that is certifying this engine family) is owned by another company, enter the full legal name of the parent company.
104	mfr_code_ARB	CARB mfr Code	Enter the manufacturer code assigned by CARB, if any:	CARB MFR Code, as applicable:	mfr_code_ARB	N	Y	text {Note: -After mfr code system is completed, CDX enters this. -Check with ARB on format and validation rules}	A4 (?)	text	CARB	all			must less or equal to four letters	no digit		Enter the manufacturer code assigned by CARB, if any.
105	eng_fam	engine family	Enter the 12-character engine family name for this application	Engine Family (EF) name	eng_fam	Y	Y	Exact 12 characteristics	A12	example: 6ABCX0.85 ABC	all	all	all	all	Must be 12 characters	only one decimal point allowed and it must be between positions 6 to 8	check first character with model year	Enter the 12-character engine family name for this application using EPA's specified engine family naming convention for the applicable model year.
106	Perm_fam	Permeation family name	Enter the permeation family name or permeation group name	Permeation Family name(s):	Perm_fam	N	Y	Make this a repeatable field to capture more than one permeation family or group names; rules are subject to change and not final as yet	A12	free text :example: 6tome130ep a1	non-CARB	all except CARB HMC	all	all				Enter up to 12-character permeation family/group name for this engine family using EPA's specified naming convention for the applicable model year. {Note: repeat this filed to accept more than one evap family names}
107	abt_status	EF emission averaging status	Does this EF participate EPA and/or CARB emission averaging program?	Does this EF participates EPA and/or CARB Averaging Program?	abt_status	Y	Y	Drop-down Menu (select one only) YES - yes this engine family is part of exhaust emissions averaging, banking, or trading program or NO - this engine family is not part of ABT program	A1	Y=yes ; or N=no	all	all	all	all	if 107=yes then 108 is required, ; else grey out 108			Select the appropriate ABT status (only one): -Y=yes, engine family is part of the exhaust emission ABT program -N=no, engine family is not part of the exhaust emission ABT program

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108	abt_ef_type	ABT_EF_ emission averaging type	If yes, EF participate EPA and/or CARB emission averaging program?	If Yes: then check	abt_ef_type	Y	Y	Drop-down Menu (select one only) -NA: Not Applicable -EPA-ABT-only: this engine family is being certified as part of EPA's Averaging, or Banking, or Trading program -CARB-only: this engine family is being certified as part of ARB's Averaging program -Both: this engine family is being certified as part of both EPA's ABT and ARB's family.	A4	NA=not applicable; EPA= epa only; CARB= carb only; Both=EPA and CARB	all	all	all	all	if 107=yes then 108 is required, ; else grey out 108			Select the appropriate ABT status (only one): -NA: Not Applicable -EPA-ABT-Only: this engine family is being certified as part of EPA's Averaging, or Banking, or Trading program -CARB-Only: this engine family is being certified as part of ARB's Averaging program -Both: this engine family is being certified as part of both EPA's ABT and ARB's programs.
109	CARB_CAP_EF	CARB corporate average plan engine famiy	CARB corporate averaging plan engine family?	CARB HMC Corporate Averaging Plan (CAP) Engine Family	CARB_CAP_E F	Y	Y	Drop-down Menu (select one only) YES - yes this engine family is part of CARB's corporate averaging plan engine family or NO - this engine family is not part of CARB CAP program	A1	Y=yes ; or N=no	CARB	HMC						Drop-down Menu (select one only) YES - yes this engine family is part of CARB's corporate averaging plan engine family or NO - this engine family is not part of CARB CAP program

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110	VEH_CAT	Vehicle category	Select the vehicle category for this engine family	Vehicle/Engine Category	VEH_CAT	Y	Y	Drop-down Menu (select only one): -HMC-Ia = Class Ia highway motorcycle with displacement less than 50cc -HMC-Ib = Class Ib highway motorcycle with displacement between 50cc and 169cc -HMC-II = Class II highway motorcycle with displacement between 170-279cc -HMC-III = Class III highway motorcycle with displacement 280cc and over -OFMC= off-road motorcycle -ATVA= all-terrain vehicle category A (meets both EPA and ARB ATV definition) -ATVB= all-terrain vehicle category B (meet EPA ATV definition) -UTV= utility vehicle (meet EPA UTV definition)	A12	HMC-Ia / HMC-Ib / HMC-II / OFMC / ATVA / ATVB / UTV / ENGINE / ATVB+ENGINE / ATVB+UTV / ATVB+UTV+ENG / UTV+ENGINE /	all	all	all	all				Drop-down Menu (select only one): -HMC-Ia = Class Ia highway motorcycle with displacement less than 50cc -HMC-Ib = Class Ib highway motorcycle with displacement between 50cc and 169cc -HMC-II = Class II highway motorcycle with displacement between 170-279cc -HMC-III = Class III highway motorcycle with displacement 280cc and over -OFMC= off-road motorcycle -ATVA= all-terrain vehicle category A (meets both EPA and ARB ATV definition) -ATVB= all-terrain vehicle category B (meet EPA ATV definition) -UTV= utility vehicle (meet EPA UTV definition) -ENGINE= engine certified for use in recreational vehicles (EPA-only) -ATVB+ENGINE=both ATVB and ENGINE categories for EPA -ATVB+UTV =both ATVB and utility vehicle categories for EPA -ATVB+UTV+ENG=both ATVB, utility vehicle and ENGINE categories for EPA -UTV+ENGINE=both utility vehicle and ENGINE category for EPA

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111	app_type	application type	Select the applicable application type	Application type	app_type	Y	Y	Drop-down Menu (select one only) -New = new:::: The application is for a new engine family. -C/O= Carry-Over:::: The carryover application is for an engine family that has been certified in a previous model year which are exactly the same as current model year application seeking certification. -R/C= Running Change:::: The submission is to update emssion related information to a certified engine family within the same model year. -F/F= Field Fix:::: The submission is to update emission related information or post production changes which impacts customer or dealships. This may	A3	New CO FF RC COR	all	all	all	all	When app_type # CO, gray out				Drop-down Menu (select one only) -New = new:::: The application is for a new engine family. -C/O= Carry-Over:::: The carryover application is for an engine family that has been certified in a previous model year which are exactly the same as current model year application seeking certification. -R/C= Running Change:::: The submission is to update emssion related information to a certified engine family within the same model year. -F/F= Field Fix:::: The submission is to update emission related information or post production changes which impacts customer or dealships. This may affect more than one model year and require each model year engine family updates. -COR= Correction:::: The submission is made to correct mistake(s) in an application.
112	ef_co	engine family be carried over	Enter the engine family name that previously certified:	carry overif carryover, then enter C/O EF name: from EF:	ef_co	N	Y	only show when above app-type = C/O; must be 12 characters	A12	6ABCX1.30 XVT	all	all	all	all	When app_type # CO, gray out	must be exact 12 Characters	only one decimal point allowed and it must be between positions 6 to 9	Enter the engine family name that previously certified and to be carried over or carried across for this application:	

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113	sale_loc	sales location / area	Sales areas of all vehicles/eniges in this EF:	Sales Areas (of all vehicles in the engine family):	sale_loc	Y	Y	Drop-down Menu (select one) 50S= all models are certified to be sold in any of the 50 states 49S= all models are certified to be sold in any state excluding California (EPA only) CA= all models are certified to be sold only in California (CA-Only) 50S+49S= some models are certified to be sold in any of the 50 states and some models certified to be sold in any state excluding California (EPA only) 50S+CA= some models are certified to be sold in any of the 50 states and some models certified to be sold only to California (CA- only) 49S+CA= (a) some models are certified to be sold in any of the 49 states and	A6	50S / 49S / CA / 49SCA / 50S49S / 50SCA / ALL	all	all	all	all				Drop-down Menu (select one) 50S= all models are certified to be sold in any of the 50 states 49S= all models are certified to be sold in any state excluding California (EPA only) CA= all models are certified to be sold only in California (CA-Only) 50S+49S= some models are certified to be sold in any of the 50 states and some models certified to be sold in any state excluding California (EPA only) 50S+CA= some models are certified to be sold in any of the 50 states and some models certified to be sold only to California (CA- only) 49S+CA= (a) some models are certified to be sold in any of the 49 states and some models only in California 50S+49S+CA= some models are certified to be sold in any of the 50 states and some models are certified for 49 states and some models are certified for sale only in California

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114	SVM-stat	small volumn mfr status	Are you a small volume manufacturer designated by EPA or CARB? Check only one box that applies:	Small MFR Recognition:	SVM-stat	Y	Y	Select Box: (select one only): -NA= Not a EPA/CARB designated small volume manufacturer -SVM_EPA= Meets EPA small volume manufacturer criteria -USVM_EPA = (for highway motorcycle only) Meets EPA ultra small volume manufacturer criteria and with annual U.S. sales less than 3,000 -SVM_CARB = Meets CARB small volume manufacturer criteria annual California sales less than 4,500 -SVM_EPA_CARB = small volume manufacturer for both EPA and CARB EPA USVM + CARB SVM = ultra small volume manufacturer for both EPA and small volume mfr CARB	A8	NA / SVM_EPA / USVM_EPA / SVM-ARB / EPA_CDB	all	all	all	all	if not SVM then greyout 115			Select Box: (select one only): -NA= Not a EPA/CARB designated small volume manufacturer -SVM_EPA= Meets EPA small volume manufacturer criteria -USVM_EPA = (for highway motorcycle only) Meets EPA ultra small volume manufacturer criteria and with annual U.S. sales less than 3,000 -SVM_CARB = Meets CARB small volume manufacturer criteria annual California sales less than 4,500 -SVM_EPA_CARB = small volume manufacturer for both EPA and CARB EPA USVM + CARB SVM = ultra small volume manufacturer for both EPA and small volume mfr CARB
115	EPA_CBD	EPA certified by design	EPA- Only (certified by design):	EPA- Only (certified by design):	EPA_CBD	Y	Y	Select Box: (select one only): Y= yes , EPA certified by design N= no, not certified by design	A1	Y=yes ; or N=no	all	all	all	all	if EPASVM or and no CA sales , then greyout CSI5 and CSI6A			Select Box: (select one only): Y= yes , EPA certified by design N= no, not certified by design
116	TEST_P	testing procedure for exhaust	Indicate the testing procedure applied for exhaust emissions values:	Exhaust Testing Procedures:	TEST_P	Y	Y	Drop-down (select only one): FTP_C = 40CFR86, Subpart E: Chassis test J1088 = SAE J1088: Engine Test Other = Any other EPA/CARB approved (special) testing procedure	A5	FTP_C / J1088 / Other	all	all	all	all	if EPA_SVM and EPA_CDB, then gray out			Indicate the testing procedure applied for exhaust emissions values (select one only): -FTP_C = 40CFR86, Subpart E: Chassis test -J1088 = SAE J1088: Engine Test -Other = Any other EPA/CARB approved (special) testing procedure
117	TEST_SP	Special or alternative testing procedure for exhaust	Please provide EPA/CARB approval ID for this testing procedure	(Other:)	TEST_SP	N	Y	Only if TEST_P = other; free text	A65	text	all	all	all	all	if TEST_P = FTP_C or J1088, grayout			Please provide EPA/CARB approval ID for this testing procedure:
118	OEM_STAT	applicant's OEM status	Are you the original manufacturere of the certifying vehicle/engine?	Vehicle/engine OEM ?	OEM_STAT	Y	Y	logical data: Y=yes N=no	A1	Y/N	all	all	all	all	if OEM_STAT = Yes, grey out field 120, 121, and / or 130, 131			Are you the original manufacturere of the certifying vehicle/engine? (select one): -Yes -No

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120	engOEM_name	engine's original equipment manufacturer name	Enter the full legal name of the engine original equipment manufacturer	Engine OEM:	engOEM_name	N	Y	possible changes may need for multiple plants of different OEM maker for the same EF of same importer	A65	text	all	all	all	all	Fill this only if OEM_STAT = N	if fillout 120 then 121 must be fill out		Enter the full legal name of the engine original equipment manufacturer.
121	ctry_engOEM	country of engine's Original Equipment Manufacturer	Enter the country where the engines were assembled	Country of Engine OEM:	ctry_engOEM	N	Y	possible changes may need for multiple plants of different OEM maker for the same EF of same importer	A65	text	all	all	all	all	Fill this only if OEM_STAT = N	if fillout 130 then 131 must be fill out		Enter the country where the engines were assembled.
130	vehOEM_name	vehicle's original equipment manufacturer name	Enter the full legal name of the vehicle original equipment manufacturer	Vehicle OEM:	vehOEM_name	N	Y	possible changes may need for multiple plants of different OEM maker for the same EF of same importer	A65	text	all	all	all	all	Fill this only if OEM_STAT = N	if fillout 130 then 131 must be fill out		Enter the full legal name of the vehicle original equipment manufacturer.
131	ctry_vehOEM	country of vehicle's Original Equipment Manufacturer	Enter the country where the vehicles were assembled:	Country of vehicle OEM:	ctry_vehOEM	N	Y	possible changes may need for multiple plants of different OEM maker for the same EF of same importer	A65	text	all	all	all	all	Fill this only if OEM_STAT = N	if fillout 130 then 131 must be fill out		Enter the country where the vehicles were assembled.
140	mfr_noteCSI1	manufacturer's CSInote1	Enter any comments that you want EPA/CARB to know regarding the above general information	Applicant notes:	mfr_noteCSI1	N	Y	free text	A1000	free text	all	all	all	all				Enter any comments for section one of the certification summary information (CSI.1)

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200	xEPAstnd_unit	exhaust emissions standards' unit EPA	Select the applicable exhaust emission standards unit of measurement for EPA emission compliance	EPA Exhaust emissions unit:	epa-exh-std-unit	Y	Y	Drop-down menu (select one only): -g/kw-hr = grams per kilowatt-hour -g/km = grams per kilometer	A7	g/km / g/kw-hr	EPA, (If sale_loc = CA, gray out CSI.2A)	all	all	all				Select the applicable exhaust emission standards unit of measurement for EPA emission compliance (select only one): -g/kw-hr = grams per kilowatt-hour -g/km = grams per kilometer
201	xstd_THC_EPA	exhaust emissions certification value total hydrocarbon EPA	Enter the EPA exhaust emission standard for total hydrocarbon (HC).	(See CSI form)	epa-exh-std-thc	Y	Y	character to display exact digits (keep precision of decimals)	F(3.1)	0.1 ~ 9.9	EPA, (If sale_loc = CA, gray out CSI.2A)	HMC (if VEH-CAT = not HMCs, gray out)	all	all	character to display exact digits (keep precision of decimals)	HMC only		Enter the EPA exhaust emission standard for total hydrocarbons (HC) for this engine family.
202 (delete the whole row, no more FEL for HC)	xFEL_THC_EPA	exhaust emission family emission limit total hydrocarbon EPA	If this EF participates in EPA averaging program, enter the family emission limit (FEL) for HC.	(See CSI form)	epa-fel-thc	N	Y	character to display exact digits (keep precision of decimals)	F(6.2)	0.01 ~ 999.99	EPA, (If sale_loc = CA, gray out CSI.2A)	HMC (if VEH-CAT = not HMCs, gray out)	all	abt_ef (if ABT_STAT = NA, gray out)	character to display exact digits (keep precision of decimals)			If this EF participates the EPA averaging program, enter the EPA family emission limit (FEL) for total hydrocarbon (HC) exhaust emissions for this engine family
203	xcval_THC_EPA	exhaust emission certification level total hydrocarbon EPA	Enter the official EPA certification level for HC exhaust emissions:	(See CSI form)	epa-exh-cert-val-thc	N	Y	character to display exact digits (keep precision of decimals)	F(4.2)	0.01 ~ 9.99	EPA, (If sale_loc = CA, gray out CSI.2A)	HMC (if VEH-CAT = not HMCs, gray out)	all	all	compare 203 to 201::if 203>201, then rule 3; else, ok	Deleted	do not accept data; display data error message* Certification level must be less or equal to emission standard.	Enter the official EPA certification level for total hydrocarbon (HC) exhaust emissions for this engine family.
204	xcval_NOX_EPA	exhaust emission certification value oxides of nitrogen EPA	Enter the official EPA certification level for nitrogen oxide (NOx) exhaust emissions.	(See CSI form)	epa-exh-cert-val-nox	N	Y	character to display exact digits (keep precision of decimals)	F(4.2)	0.01 ~ 9.99	EPA, (If sale_loc = CA, gray out CSI.2A)	all	all	all	if 203 and 204 is entered then greyout 207			Enter the official EPA certification level for nitrogen oxide (NOx) exhaust emissions for this engine family.
205	xstd_THC_NOX_EPA	exhaust emission standard total hydrocarbon + oxides of nitrogen EPA	Enter the EPA exhaust emission standard for HC+NOx.	(See CSI form)	epa-exh-std-thc-nox	Y (optional to HMC)	Y	character to display exact digits (keep precision of decimals)	F(4.1)	0.1 ~ 99.9	EPA, (If sale_loc = CA, gray out CSI.2A)	all (optional to HMC)	all	all	character to display exact digits (keep precision of decimals)			Enter the EPA exhaust emission standard for total hydrocarbons and nitrogen oxides (HC+NOx) for this engine family.
206	xfel_THC_NOX_EPA	exhaust emission family emission limit total hydrocarbon+Oxides of Nitrogen EPA	If this EF participates the EPA averaging program, enter the family emission limit (FEL) for HC+NOx.	(See CSI form)	epa-fel-thc-nox	N	Y	character to display exact digits (keep precision of decimals)	F(4.2)	0.01 ~ 9.99	EPA, (If sale_loc = CA, gray out CSI.2A)	all	all	abt_ef (if ABT_STAT = NA, gray out)	character to display exact digits (keep precision of decimals)			If this EF participates the EPA averaging program, enter the EPA family emission limit (FEL) for HC+NOx exhaust emissions for this engine family

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207	xcvl_THC_NOx_EPA	exhaust emission certification level of total hydrocarbon+Oxides of Nitrogen	Enter the EPA exhaust emission certification level for HC+NOx.	(See CSI form)	epa-exh-cert-val-hc-nox	Y (optimal to HMC)	Y	character to display exact digits (keep precision of decimals)	F(4.2)	00.1 ~ 99.9	EPA, (If sale_loc = CA, gray out CSI.2A)	all (optimal to HMC)	all	all	compare 207 to 205::if 207>205, then rule 2; else, ok	compare 207 to 206:: if 207 > 205, then rule 3; else ok.	do not accept data; display data error message" Certification level must be less or equal to emission standard or FEL, if this engine family participate in EPA averaging program.	Enter the official EPA certification level for total hydrocarbons and nitrogen oxides (HC+NOx) exhaust emissions for this engine family.
208	xstd_CO_EPA	exhaust emission standard carbon monoxide EPA	Enter the EPA exhaust emission standard for CO.	(See CSI form)	epa-exh-std-co	Y	Y	character to display exact digits (keep precision of decimals)	F(3)	999	EPA, (If sale_loc = CA, gray out CSI.2A)	all	all	all	character to display exact digits (keep precision of decimals)			Enter the EPA exhaust emission standard for carbon monoxide for this engine family.
209	xfel_CO_EPA	exhaust emission family emission limit carbon monoxide EPA	If this EF participates the EPA averaging program, enter the family emission limit (FEL) for carbon monoxide.	(See CSI form)	epa-fel-co	N	Y	character to display exact digits (keep precision of decimals)	F(5.1)	0.1~999.9	EPA, (If sale_loc = CA, gray out CSI.2A)	all	all	abt_ef (if ABT_STAT = NA, gray out)	character to display exact digits (keep precision of decimals)			If this EF participates the EPA averaging program, enter the EPA family emission limit (FEL) for carbon monoxide exhaust emissions for this engine family
210	xcvl_CO_EPA	exhaust emission certification value carbon monoxide EPA	Enter the official EPA certification level for carbon monoxide (CO) exhaust emissions	(See CSI form)	epa-exh-cert-val-co	Y	Y	character to display exact digits (keep precision of decimals)	F(5.1)	0.1~999.9	EPA, (If sale_loc = CA, gray out CSI.2A)	all	all	all	compare 210 to 208::if 210>208, then rule 2; else, ok	compare 209 to 208:: if 209 > 208, then rule 3; else ok.	do not accept data; display data error message" Certification level must be less or equal to emission standard or FEL, if this engine family participate in EPA averaging program.	Enter the official EPA certification level for carbon monoxide exhaust emissions for this engine family.
211	pstd_tnk_EPA	tank permeation emission standard EPA	Enter the EPA emission standard for fuel tank permeation emissions for total hydrocarbons (HC) for this engine family.	(See CSI form)	perm-fuel-tank-std	N	Y	character to display exact digits as the emission standard; not required until MY=2008	F(5.1)	0.1 ~ 999.9	EPA, (If sale_loc = CA, gray out CSI.2A)	all						Enter the EPA emission standard for fuel tank permeation emissions for total hydrocarbons (HC) for this engine family.
212	pfel_tnk_EPA	tank permeation family emission limit permeation EPA	If this tank participates the EPA averaging program, enter the family emission limit (FEL) for total hydrocarbons (HC) for this fuel tank.	(See CSI form)	perm-fuel-tank-fel	N	Y	character to display exact digits (keep precision of decimals); not required until MY=2008	F(5.1)	0.1 ~ 999.9	EPA, (If sale_loc = CA, gray out CSI.2A)	all		abt_ef (if ABT_STAT = NA, gray out)				Enter the EPA family emission limit (FEL) for total hydrocarbons (HC) for fuel tank permeation emissions for this engine family

CSI FORM NUMBER (New)	Data Element Name	Data Element Long Name	Text on Web input form	Text on the summary form	proposed harmonized database field name	Required?	collected from mfr	Notes	Format	data value/range/example	Applicable to Sales area (SALE_LOC):	Applicable to vehicle category (Veh_Cat):	Applicable to test procedure (TEST_P):	Applicable to ABT status (ABT_STA)	validation rule1	validation rule2	validation rule3	Description or help menu item
213	pcval_tnk_EPA	tank permeation emission certification value EPA	Enter the official EPA certification level of fuel tank permeation emissions for total hydrocarbons (HC) for this engine family.	(See CSI form)	perm-fuel-tank-cert-val	N	Y	character to display exact digits (keep precision of decimals); not required until MY=2008	F(5.2)	0~99.99	EPA, (If sale_loc = CA, gray out CSI.2A)	all		all	compare 213 to 211::if 213>211, then rule 2; else, ok	compare 213 to 211:: if 213 > 212, then rule 3; else ok.	do not accept data; display data error message* Certification level must be less or equal to emission standard or FEL, if this engine family participate in EPA averaging program.	Enter the official EPA certification level of fuel tank permeation emissions for total hydrocarbons (HC) for this engine family.
214	pstd_hos_EPA	fuel hose permeation emission standard EPA	Enter the EPA emission standard for fuel hose permeation emissions for total hydrocarbons (HC) for this engine family.	(See CSI form)	perm-fuel-hose-std	N	Y	character to display exact digits (keep precision of decimals); not required until MY=2008	F(3.1)	0~9.1	EPA, (If sale_loc = CA, gray out CSI.2A)	all		all				Enter the EPA emission standard for fuel hose permeation emissions for total hydrocarbons (HC) for this engine family.
215	pcval_hos_EPA	fuel hose permeation emission certification value EPA	Enter the official EPA certification level of fuel hose permeation emissions for total hydrocarbons (HC) for this engine family.	(See CSI form)	perm-fuel-hose-cert-val	N	Y	character to display exact digits (keep precision of decimals); not required until MY=2008	F(5.2)	0~99.99	EPA, (If sale_loc = CA, gray out CSI.2A)	all		all	compare 215 to 214:: if 215 > 214, then rule 3; else ok.		do not accept data; display data error message* Certification level must be less or equal to emission standard.	Enter the official EPA certification level of fuel hose permeation emissions for total hydrocarbons (HC) for this engine family.
216	mfr_noteCS2a	manufacturer's CSInote1	Enter any comments that you want EPA/CARB to know regarding the above general information	Applicant notes:	mfr-comment-csN	N	Y	free text	A1000	free text	all	all	all					Enter any note or comment for the certification summary information Section CSI.2a:

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229	xECM_HMC_CARB	exhaust emission family emission limit carbon monoxide CARB	If this EF participate in CARB's HMC early compliance program, enter the early compliance multiplier	CARB HMC Early Compliance Multiplier	early-compliance-mult	Y	Y	default value is 0.0; allow character to display exact digits (keep precision of decimals)	F(3.1)	0.0 ~ 9.9	CA / 50S / 49SCA / 50SCA / 50S49S / ALL	HMC	FTP_C		character to display exact digits (keep precision of decimals)			Enter the CARB HMC early compliance multiplier value? Enter 0.0 if this does not apply to the engine family
230	xCARBstd_unit	exhaust emissions standards' unit CARB	Select the applicable exhaust emission standards unit of measurement for CARB emission compliance	CARB Exhaust emissions unit:	carb-exh-std-unit	Y	Y	Drop-down menu (select one only): -g/bhp-hr = grams per brake horsepower-hour -g/km = grams per kilometer	A8	g/km / g/bhp-hr	CA / 50S / 49SCA / 50SCA / 50S49S / ALL	all	all	all				Select the applicable exhaust emission standards unit of measurement for CARB emission compliance (select only one): -g/bhp-hr = grams per kilowatt-hour -g/km = grams per kilometer
231	xval_THC_CARB	exhaust emission certification level total hydrocarbon CARB	Enter the official CARB certification level for total hydrocarbon (THC) exhaust emissions:	(See CSI form)	carb-exh-cert-val-thc	Y	Y	character to display exact digits (keep precision of decimals); if THC is enter then 237 is not required	F(7.3)	0.001 ~ 999.999	CA / 50S / 49SCA / 50SCA / 50S49S / ALL	all	all	all	compare 231 to 232::if 231>232, then rule 2; else, ok	compare 231 to 233:: if 231 > 232, then rule 3; else ok.	do not accept data; display data error message* Certification level must be less or equal to emission standard or FEL, if this engine family participate in CARB corporate averaging program.	Enter the official CARB certification level for total hydrocarbon (THC) exhaust emissions for this engine family.
232	xFEL_THC_CARB	exhaust emission family emission limit total hydrocarbon CARB	If this EF participate in CARB corporate averaging program (CAP), enter the family emission limit (FEL) for THC.	(See CSI form)	carb-fel-thc	N	Y	character to display exact digits (keep precision of decimals)	F(6.2)	0.01 ~ 999.99	CA / 50S / 49SCA / 50SCA / 50S49S / ALL	all	all	all	compare 231 to 232::if 231>232, then rule 2; else, ok	compare 231 to 233:: if 231 > 232, then rule 3; else ok.	do not accept data; display data error message* Certification level must be less or equal to emission standard or FEL, if this engine family participate in CARB averaging program.	Enter the CARB family emission limit (FEL) for total hydrocarbon (THC) exhaust emissions for this engine family
233	xstd_THC_CARB	exhaust emissions certification value total hydrocarbon CARB	Enter the CARB exhaust emission standard for THC.	(See CSI form)	carb-exh-std-thc	N	Y	character to display exact digits (keep precision of decimals)	F(7.3)	0.001 ~ 999.999	CA / 50S / 49SCA / 50SCA / 50S49S / ALL	all	all	all	compare 231 to 232::if 231>232, then rule 2; else, ok	compare 231 to 233:: if 231 > 232, then rule 3; else ok.	do not accept data; display data error message* Certification level must be less or equal to emission standard or FEL, if this engine family participate in CARB corporate averaging program.	Enter the CARB exhaust emission standard for total hydrocarbons (THC) for this engine family.

CSI FORM NUMBER (New)	Data Element Name	Data Element Long Name	Text on Web input form	Text on the summary form	proposed harmonized database field name	Required?	collected from mfr	Notes	Format	data value/range/example	Applicable to Sales area (SALE_LOC):	Applicable to vehicle category (Veh_Cat):	Applicable to test procedure (TEST_P):	Applicable to ABT status (ABT_STA)	validation rule1	validation rule2	validation rule3	Description or help menu item
234	xval_NOX_CARB	exhaust emission certification value oxides of nitrogen CARB	Enter the official CARB certification level for nitrogen oxide (NOx) exhaust emissions.	(See CSI form)	carb-exh-cert-val-nox	N	Y	character to display exact digits (keep precision of decimals); if NOx is enter then 237 is not required	F(7.3)	0.001 ~ 999.999	CA / 50S / 49SCA / 50SCA / 50S49S / ALL	all	all	all				Enter the official CARB certification level for nitrogen oxide (NOx) exhaust emissions for this engine family.
237	xval_THC_NOX_CARB	exhaust emission certification level of total hydrocarbon+Oxides of Nitrogen	Enter the CARB exhaust emission certification level for THC+NOx.	(See CSI form)	carb-exh-cert-val-thc-nox	N	Y	character to display exact digits (keep precision of decimals)	F(6.3)	0.01 ~ 999.99	CA / 50S / 49SCA / 50SCA / 50S49S / ALL	all	all	all	compare 237 to 238::if 237>238, then rule 2; else, ok	compare 237 to 239:: if 237 > 239, then rule 3; else ok.	do not accept data; display data error message" Certification level must be less or equal to emission standard or FEL,	Enter the official CARB certification level for total hydrocarbons and nitrogen oxides (THC+NOx) exhaust emissions for this engine family.
238	xfel_THC_NOX_CARB	exhaust emission family emission limit total hydrocarbon+Oxides of Nitrogen CARB	If this EF participate in CARB averaging program, enter the family emission limit (FEL) for THC+NOx.	(See CSI form)	carb-fel-thc-nox	N	Y	character to display exact digits (keep precision of decimals)	F(6.2)	0.01 ~ 999.99	CA / 50S / 49SCA / 50SCA / 50S49S / ALL	all	all	all	compare 237 to 238::if 237>238, then rule 2; else, ok	compare 237 to 239:: if 237 > 239, then rule 3; else ok.	do not accept data; display data error message" Certification level must be less or equal to emission standard or FEL	Enter the CARB family emission limit (FEL) for total hydrocarbons and nitrogen oxides (THC+NOx) exhaust emissions for this engine family
239	xstd_THC_NOX_CARB	exhaust emission standard total hydrocarbon + oxides of nitrogen CARB	Enter the CARB exhaust emission standard for THC+NOx.	(See CSI form)	carb-exh-std-thc-nox	N	Y	character to display exact digits (keep precision of decimals)	F(6.3)	0.001 ~ 99.999	CA / 50S / 49SCA / 50SCA / 50S49S / ALL	all	all	all	compare 237 to 238::if 237>238, then rule 2; else, ok	compare 237 to 239:: if 237 > 239, then rule 3; else ok.	do not accept data; display data error message" Certification level must be less or equal to emission standard	Enter the CARB exhaust emission standard for total hydrocarbons and nitrogen oxides (THC+NOx) for this engine family.
240	xval_CO_CARB	exhaust emission certification value carbon monoxide CARB	Enter the official CARB certification level for carbon monoxide (CO) exhaust emissions	(See CSI form)	carb-exh-cert-val-co	Y	Y	character to display exact digits (keep precision of decimals)	F(5.1)	0.1 ~ 999.9	CA / 50S / 49SCA / 50SCA / 50S49S / ALL	all	all	all	compare 240 to 241::if 240>241, then rule 2; else, ok	do not accept data; display data error message" Certification level must be less or equal to emission standard or FEL		Enter the official CARB certification level for carbon monoxide exhaust emissions for this engine family.
241	xstd_CO_CARB	exhaust emission standard carbon monoxide CARB	Enter the CARB exhaust emission standard for CO.	(See CSI form)	carb-exh-std-co	Y	Y	character to display exact digits (keep precision of decimals)	F(5.1)	0.1 ~ 999.9	CA / 50S / 49SCA / 50SCA / 50S49S / ALL	all	all	all	compare 240 to 241::if 240>241, then rule 2; else, ok	do not accept data; display data error message" Certification level must be less or equal to emission standard		Enter the CARB exhaust emission standard for carbon monoxide for this engine family.
243	xul_yr_CARB	exhaust useful life years CARB	enter the CARB exhaust emission useful life years for this engine family in years	(See CSI form)	carb-exh-ul-years	Y	Y	character to display exact digits (keep precision of decimals)	I(2)	1~99	CA / 50S / 49SCA / 50SCA / 50S49S / ALL	all	all	all	character to display exact digits (keep precision of decimals)			Enter the exhaust emission useful life (in years) as defined in CARB regulation for this engine family

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245	xul_km_CARB	exhaust useful life kilometers CARB	enter the CARB exhaust emission useful life distance for this engine family in kilometers	(See CSI form)	carb-exh-ul-km	Y	Y	character to display exact digits (keep precision of decimals)	I(6)	1~999999	CA / 50S / 49SCA / 50SCA / 50S49S / ALL	all	all	all	character to display exact digits (keep precision of decimals)			Enter the exhaust emission useful life (in kilometers) as defined in CARB regulation for this engine family
260	evap_fam	evaporative family name	Enter the evaporative family name (12-digits EPA standardized naming code)	(See CSI form)	evap-fam	Y	Y		A12	6tome160carb	CA / 50S / 49SCA / 50SCA / 50S49S / ALL	HMC	FTP_C	all	digit 5 must be E			Enter the 12-digits evaporative family name see EPA evaporative family naming convention for additional help
261	pcval_DHS_CARB	Diurnal + Hot Soak emission certification value CARB	Enter the official CARB certification level of diurnal+hotsoak emissions for total hydrocarbons (THC) for this engine family.	(See CSI form)	carb-evap-cert-val	Y	Y	character to display exact digits (keep precision of decimals)	F(3.1)	0.1~9.9	CA / 50S / 49SCA / 50SCA / 50S49S / ALL	HMC	FTP_C	all	compare 261 to 262::if 261>262, then rule 2; else, ok	do not accept data; display data error message" Certification level must be less or equal to emission standard		Enter the official CARB certification level for this evaporative family diurnal + hot soak evaporative emissions for total hydrocarbons (THC) for this engine family.
262	estd_DHS_CARB	diurnal hot soak evaporative emission standard CARB	Enter the official CARB evaporative emission standard for diurnal+hotsoak emissions for total hydrocarbons (THC)	(See CSI form)	carb-evap-std	Y	Y	character to display exact digits (keep precision of decimals)	F(3.1)	0.1~9.9	CA / 50S / 49SCA / 50SCA / 50S49S / ALL	HMC	FTP_C	all	compare 261 to 262::if 261>262, then rule 2; else, ok	do not accept data; display data error message" Certification level must be less or equal to emission standard.		Enter the CARB evaporative emissions standard for diurnal + hot soak for total hydrocarbons (THC)
266	eul_yr_CARB	evaporative useful life years CARB	enter the CARB evaporative emission useful life years for this evaporative family in years	(See CSI form)	carb-evap-ul-years	Y	Y	character to display exact digits (keep precision of decimals)	I(2)	1~99	CA / 50S / 49SCA / 50SCA / 50S49S / ALL	HMC	FTP_C	all	character to display exact digits (keep precision of decimals)			Enter the evaporative emission useful life (in years) as defined in CARB regulation for this evaporative family
267	eul_km_CARB	evaporative useful life kilometers CARB	enter the CARB evaporative emission useful life distance for this evaporative family in kilometers	(See CSI form)	carb-evap-ul-km	Y	Y	character to display exact digits (keep precision of decimals)	I(6)	1~999999	CA / 50S / 49SCA / 50SCA / 50S49S / ALL	HMC	FTP_C	all	character to display exact digits (keep precision of decimals)			Enter the evaporative emission useful life (in kilometers) as defined in CARB regulation for this evaporative family
268	evap_fam_rpt	evaporative family reporting	Select: Any evaporative family emission data to report?	Any additional Evaporative Family Data to Report? Yes or No		Y	Y	logical field select one: Y=yes, need to report evaporative emission data:: N=no, no evaporative family data to report	A1	yes / no	CA / 50S / 49SCA / 50SCA / 50S49S / ALL	HMC	FTP_C					Select one: Select Y=yes, you have evaporative emission data to report or you have additional evaporative family data to report; Select N=no, you do not have any evaporative family data to report
269	mfr_noteCS2b	manufacturer's CSInote1	Enter any comments that you want EPA/CARB to know regarding the above general information	Applicant notes:	mfr-comment-csN	N	Y	free text	A1000	free text	CA / 50S / 49SCA / 50SCA / 50S49S / ALL	all	all	all				Enter any comments for section one of the certification summary information (CSI.2b)

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301	ul_min_EPA	engine family useful life EPA	Specify this engine family's useful life:	Useful Life:		Y	Y	Drop-down menu (select one only): UL = EPA required minimum useful life MUL = Manufacturer specified useful life	A3	UL/MUL	all	all	ALL	ALL	if ul-min (301) = mul; then ul-mfr (302) is required; else grey out 312			Specify the useful life for this engine family (select one only): -UL = EPA/CARB required minimum useful life -MUL = Manufacturer specified useful life (must be longer than EPA/ARB minimum requirement)
302	ul_mfr_EPA	manufacturer specified useful life EPA	Type-in manufacturer specified useful life (must be longer than EPA/ARB minimum requirement) in any combination of years; and/or km; and/or hours (example: 5 1/2 years; 12,000 km):	Manufacturer specified useful life		N	Y	free text; if 301=MUL then 302 is required and fields 341 is required and either 342, 343 are to be entered ;(only 343 is not applicable to HMC and OFMC)	A30	text	all	all	ALL	ALL	if ul-min (301) = mul; then ul-mfr (302) is required; else grey out 312			Indicate the manufacturer specified useful life for this engine family (must be longer than EPA/ARB minimum requirement) in any combination of years; and/or km; and/or operation hours (example: 5 1/2 years and/or 12,000 km)
305	eng_fuel	engine fuel	Select the primary operating fuel type for this engine family:	Vehicle Operating Fuel Type?		Y	Y	drop down menu (select ONLY one): -GAS = gasoline -CNG = compressed natural gas -LPG = liquefied petroleum gas -OTH = other	A3	GAS /CNG / LPG / OTH	all	all	ALL	ALL	if eng_fuel (305) = Oth ; then eng_fuelOth (306) is required; else grey out 306			select the primary engine operating fuel (Select only one) gasoline, or compressed natural gas (CNG), or liquified petroleum gas (LPG), or diesel, or other (specify). If the engine family can operate on additional fuel type, please enter the second fuel type in multiple fuel system field.
306	eng_fuelOth	engine fuel other	Type-in a description of the operating fuel system if that is not listed above:	Operating Fuel type if other: (see CSI.3)		N	Y	free text upto 12 digits	A12	text	all	all	ALL	ALL	if eng_fuel (305) = Oth ; then eng_fuelOth (306) is required; else grey out 306			Type-in the fuel type if not listed.
307	eng_comb	engine combustion cycle	Select combustion cycle for this engine family	Combustion Cycle		Y	Y	drop down menu (select one only): 4 = 4-stroke 2 = 2-stroke O = Other	A1	4 / 2 / O	all	all	ALL	ALL	if eng_comb (307) = Oth ; then eng_comb2(308) is required; else, garyout 308			Enter a description of the primary engine combustion cycle
308	eng_comb2	engine combustion cycle other	Type-in the engine combustion cycle if not listed.	Combustion Cycle if other: (see CSI.3)		N	Y	free text upto 12 digits	A12	text	all	all	ALL	ALL	if eng_comb (307) = Oth ; then eng_comb2(308) is required; else, garyout 308			Type-in the engine combustion cycle if not listed above:
309	eng_cyl	engine cylinder arrangement	Select the engine cylinder/block arrangement	Cylinder/block Arrangement		Y	Y	drop down menu (select one only): -S = single -L = inline -V = vee -R = rotary -H = horizontal opposed (flat) -O = other	A1	S / L / V / R / H / O	all	all	ALL	ALL	if eng_cyl (309) = O; then eng_cyl2 (310) is required; else grey out eng_cyl2 (310).			Select the primary engine cylinder arrangement (select only one) -S = single -L = inline -V = vee -r = rotary -H = horizontal opposed -O = other

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310	eng_cyl2	engine cylinder arrangement, other	Type-in the engine cylinder arrangement if not listed.	Other: (see CSI.3)		N	Y	free text upto 12 digits	A12	text	all	all	ALL	ALL	if eng_cyl (309) = O; then eng_cyl2 (310) is required; else grey out eng_cyl2 (310).			Type-in the engine cylinder arrangement in not listed.
311	eng_cylN	engine cylinder number	Enter the number of cylinders or rotors as applicable. If engine does not have cylinder then enter 0	Number of Cylinders:		Y	Y	numeric field	I(2)	0-99	all	all	ALL	ALL				enter the number of cylinders or rotors as applicable. If engine does not have cylinder then enter 0
312	eng_valN	engine valves per cylinder	enter the number of valves per cylinder, as applicable otherwise enter 0	Valves per cylinder		Y	Y	numeric field	I(1)	0-9	all	all	ALL	ALL				enter the number of valves per cylinder, as applicable otherwise enter 0
313	eng_cool	engine cooling media	Select engine's cooling media	Engine Cooling Media		Y	Y	drop down menu (select one only): -L=liquid cooled -A=air cooled -O=other	A1	A / L / O	all	all	ALL	ALL	if eng-cool (313) = O; then eng-cool2 (314) is required; else grey out eng-cool2 (314)			Select engine's cooling media (L=liquid cooled, or A=air cooled, or O=other). If "other", specify
314	eng_cool2	engine cooling media other	Type-in the engine cooling media:	Other: (see CSI.3)		N	Y	free text	A12	free text	all	all	ALL	ALL	if eng-cool (313) = O; then eng-cool2 (314) is required; else grey out eng-cool2 (314)			Type-in the engine's cooling media if not listed above:
315	eng_type	engine type	Specify Engine Type	Engine Type		Y	Y	drop down menu (select one only): -si=reciprocating(otto cycle) -rot=rotary -tub=turbine -hev= hybrid electric -fc=fuel cel -oth=other	A3	rcp /rot /ci/tub /hev/ fc/ Oth	all	all	ALL	ALL	if eng_type (315) = Oth; then eng_type2 (316) is required; else grey out 316			Select the type of engine (select one only): -si=reciprocating(otto cycle) -rot=rotary -tub=turbine -hev= hybrid electric -fc=fuel cel -oth=other
316	eng_type2	engine type other	Type-in a description of the engine type if that is not listed:	Engine Type if other: (see CSI.3)		N	Y	free text upto 12 digits	A12	text	all	all	ALL	ALL	if eng_type (315) = Oth; then eng_type2 (316) is required; else grey out 316			Type in a description of the engine type that is not listed:
317	multi_fuel_ef	multipl fuel system engine family	Does this engine family has multiple operating fuels?			Y	Y	select one: Y=yes, engines in this engine family operates on more than one fuel type; N=no, engines in this engine family only operates on one type of fuel	A1	Y=yes / N=no	all	all	all	all	if multi_fuel_ef = Y ; then (318) is required, else grey out 318			select one: Y=yes, engines in this engine family operates on more than one fuel type; N=no, engines in this engine family only operates on one type of fuel

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318	eng_fuel2	engine fuel 2	second vehicle / engine operating fuel			N	Y	drop down menu (select ONLY one): -GAS = gasoline -CNG = compressed natural gas -LPG = liquefied petroleum gas -OTH = other ; if other enter info into notes	A3	GAS /CNG / LPG / OTH	all	all	all	all	if multi_fuel_ef = Y ; then (318) is required, else grey out 318			select the second engine operating fuel (Select only one) , gasoline, or compressed natural gas (CNG), or liquified petroleum gas (LPG), or diesel, or other (specify).
320	multi_disp_ef	multiple displacement engine family	multiple displacement engine family?			Y	Y	select one: Y=yes, this engine family contains more than one engine displacement; N=no, this engine family only have one engine displacement	A1	Y=yes / N=no	all	all	all	all	if multi_disp_ef = Y ; then (321~325) are captured via eng_disp from all engine models in the model summary (CSI7) and listed in field (321~325) ::list only the first five larges displacements; Else grey out or do not disply 321~325			select one: Y=yes, engines in this engine family have more than one engine displacement; N=no, engines in this engine family only have one engine displacement
321	eng_disp1	engine dispmacement1	engine dispmacement1	engine dispmacement1		N	Y	field fill-in from model summary page; if can not , then place these on the web form	I(4)	1~9999	all	all	all	all	if multi_disp_ef = Y ; then (321~325) are captured via eng_disp from all engine models in the model summary (CSI7) and listed in field (321~325) ::list only the first five larges displacements; Else grey out or do not disply 321~325			
322	eng_disp2	engine dispmacement2	engine dispmacement2	engine dispmacement2		N	Y	field fill-in from model summary page; if can not , then place these on the web form	I(4)	1~9999	all	all	all	all	if multi_disp_ef = Y ; then (321~325) are captured via eng_disp from all engine models in the model summary (CSI7) and listed in field (321~325) ::list only the first five larges displacements; Else grey out or do not disply 321~325			

CSI FORM NUMBER (New)	Data Element Name	Data Element Long Name	Text on Web input form	Text on the summary form	proposed harmonized database field name	Required?	collected from mfr	Notes	Format	data value/range/example	Applicable to Sales area (SALE_LOC):	Applicable to vehicle category (Veh_Cat):	Applicable to test procedure (TEST_P):	Applicable to ABT status (ABT_STA):	validation rule1	validation rule2	validation rule3	Description or help menu item	
323	eng_disp3	engine displacement3	engine displacement3	engine displacement3		N	Y	field fill-in from model summary page; if can not , then place these on the web form	I(4)	1~9999	all	all	all	all	if multi_disp_ef = Y ; then (321~325) are captured via eng_disp from all engine models in the model summary (CSI7) and listed in field (321~325) ::list only the first five larges displacements; Else grey out or do not disply 321~325				
324	eng_disp4	engine displacement4	engine displacement4	engine displacement4		N	Y	field fill-in from model summary page; if can not , then place these on the web form	I(4)	1~9999	all	all	all	all	if multi_disp_ef = Y ; then (321~325) are captured via eng_disp from all engine models in the model summary (CSI7) and listed in field (321~325) ::list only the first five larges displacements; Else grey out or do not disply 321~325				
325	eng_disp5	engine displacement5	engine displacement5	engine displacement5		N	Y	field fill-in from model summary page; if can not , then place these on the web form	I(4)	1~9999	all	all	all	all	if multi_disp_ef = Y ; then (321~325) are captured via eng_disp from all engine models in the model summary (CSI7) and listed in field (321~325) ::list only the first five larges displacements; Else grey out or do not disply 321~325				
330	eng_Tnew	engine new technology	Does this engine family utilize any new technologies (first time applied by your company)?	New Technology		N	Y	Logical: Y = Yes N = No	A1	Y/N	all	all	ALL	ALL	if eng_Tnew (330) = Y, then eng_tec_desc (331); otherwise gray out 331				Specify if you have used any new technology (first time applied by your company) for this engine family

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331	eng_tec_desc	engine new technology description	brief description of new technology (to your company) used for this engine family	Yes, technology explanation:		N	Y	free text	A120	text	all	all	ALL	ALL	if eng_Tnew (330) = Y, then eng_tec_desc (331); otherwise gray out 331			Type-in a brief description of any new technology (first time applied by your company):
332	mfr_noteCSI3	manufacturer's notes for CSI.3	Enter any note or comment that you may want EPA/CARB to know regarding the CSI.3	Applicant notes for CSI.3:		N	Y	free text	A1000	free text	all	all	all	all				Enter any note or comment that you may want EPA/CARB to know regarding the CSI.3
341	mfr_ul_year		manufacturer specified useful life in years			Y	Y		I(2)	0-99	49s	all			if field 302=YES, then fields 341, 342, and 343 are required	values must => 5		enter the manufacturer determined useful life in years
342	mfr_ul_km		manufacturer specified useful life in kilometers			Y	Y		I(5)	0-999999	49s	all			if field 302=YES, then fields 341, 342, and 343 are required	<p>If 110=OFMC or ENG, AND the largest displacement =< 70cc , value must => 5,000;</p> <p>If 110= ATV or UTV or ENG, AND the largest displacement less than <100cc, value must >=5,000</p> <p>Otherwise, =>10,000</p> <p>Error msg: Manufacturer specified useful life must longer than EPA required minimum engine family useful life: In general - 5 years, 10,000 km or 1000 hours; for off-highway motorcycles engine family with displacement equal or less than</p>		enter the manufacturer determined useful life in kilometers

CSI FORM NUMBER (New)	Data Element Name	Data Element Long Name	Text on Web input form	Text on the summary form	proposed harmonized database field name	Required?	collected from mfr	Notes	Format	data value/range/example	Applicable to Sales area (SALE_LOC):	Applicable to vehicle category (Veh_Cat):	Applicable to test procedure (TEST_P):	Applicable to ABT status (ABT_STA)	validation rule1	validation rule2	validation rule3	Description or help menu item	
343	mfr_ul_hr		maufacturer specified useful life in hours			Y	Y		I(5)	0-99999	49s	all			if field 302=YES, then fields 341, 342, and 343 are required	If 110 = OFMC, AND the largest displacement =< 70cc , value must => 500; If 110 = ATV or UTV or ENG, AND the largest displacement less than <100cc, value must >=500; Otherwise, =>1000 Error msg: Manufacturer specified useful life must longer than EPA required minimum engine family useful life: In general - 5 years, 10,000 km or 1000 hours; for off-highway motorcycles engine family with displacement equal or less than 70cc -5 years or			enter the manufacturer determined useful life in hours

CSI FORM NUMBER (New)	Data Element Name	Data Element Long Name	Text on Web input form	Text on the summary form	proposed harmonized database field name	Required?	collected from mfr	Notes	Format	data value/range/example	Applicable to Sales area (SALE_LOC):	Applicable to vehicle category (Veh_Cat):	Applicable to test procedure (TEST_P):	Applicable to ABT status (ABT_STA)	validation rule1	validation rule2	validation rule3	Description or help menu item
400	ecs_setN	ECS_set1~n	not displayed on web form;	not displayed	ecs-number	N	Y	ECS_setN is use to reference individual ECS data group (i.e., fields 401~422 are to repeat and captured as additional sets of ECS data set.	I(2)	1~99	all	all	all	all				
401	ecs_cat	emission control system, catalytic converter	Is this engine family equipped with a catalytic converter?	Catalytic converter	catalyst-indicator	Y	Y	Logical: -Y=yes -N= No	A1	Y/N	all	all	all	all	if ecs_cat = N, gray out (402, 403, 404)			Is this engine family equipped with a catalytic converter? Select the applicable value: Y = YES, the engine family have catalytic converter(s) as part of the emission control system N = NO, the engine family does not have catalytic converter(s) as part of the emission control system
403	ecs_Cnum	emission control system, number of catalytic converter	Enter the total number of catalytic converters	Number of catalytic converters	catalyst-number	N	Y	drop-down menu (select one only): 1~9	I(1)	1~9	all	all	all	all	if ecs_cat = N, gray out (402, 403, 404)			Enter the total number of catalytic converter(s), if this engine family is equipped with catalytic converter
404	ecs_Ccfg	emission control system, catalytic converter configuration	Select the applicable catalytic converter configuration (select only one): P = parallel S = series PS = both parallel and series	catalytic converter configuration	catalyst-config	N	Y	drop-down menu (select only one): SN = single P = parallel S = series PS = both parallel and series	A2	SN / P/S/PS	all	all	all	all	if ecs_cat = N, gray out (402, 403, 404)			Select the applicable catalytic converter configuration (select only one): P = parallel S = series PS = both parallel and series
402	ecs_Ctyp	emission control system, main-catalyst-code	Select the catalytic converter type used:	catalytic converter type	catalyst-type	N	Y	drop-down menu (select one only) -C = three-way catalyst (TWC), single-bed, closed-loop warm-up -D = TWC, double-bed, open-loop -E = TWC, double-bed, closed-loop/warm-up -F = TWC, single-bed, electric warm-up -G = TWC, double-bed, electric warm-up -N = neither catalyst nor thermal reactor -O = oxidizing catalyst only -R = thermal reactor -T = TWC, single bed, open loop	A1	C/D/E/F/G/N /O/R/T	all	all	all	all	if ecs_cat = N, gray out (402, 403, 404)			Select the catalytic converter type used: -C = three-way catalyst (TWC), single-bed, closed-loop warm-up -D = TWC, double-bed, open-loop -E = TWC, double-bed, closed-loop/warm-up -F = TWC, single-bed, electric warm-up -G = TWC, double-bed, electric warm-up -N = neither catalyst nor thermal reactor -O = oxidizing catalyst only -R = thermal reactor -T = TWC, single bed, open loop

CSI FORM NUMBER (New)	Data Element Name	Data Element Long Name	Text on Web input form	Text on the summary form	proposed harmonized database field name	Required?	collected from mfr	Notes	Format	data value/range/example	Applicable to Sales area (SALE_LOC):	Applicable to vehicle category (Veh_Cat):	Applicable to test procedure (TEST_P):	Applicable to ABT status (ABT_STA)	validation rule1	validation rule2	validation rule3	Description or help menu item
405	ecs_egr	emission control system, exhaust gas recirculation	Does the engine family use an exhaust gas recirculation (EGR) technology as part of the emission control system?	Exhaust Gas Recirculation	egr-indicator	N	Y	drop-down menu: (select one only) Y = YES, the engine family utilizes EGR technology N = NO, the engine family does not utilize EGR technology	A1	Y/N	all	all	all	all	if ecs_egr = N, gray out ecs_Etyp (406)			Does the engine family use an exhaust gas recirculation (EGR) technology as part of the emission control system (ECS)? Select the applicable value: Y = YES, the engine family utilizes EGR technology N = NO, the engine family does not utilize EGR technology
406	ecs_Etyp	emission control system, type of exhaust gas recirculation	Enter a description of the EGR technology used:	EGR Type	egr-type	N	Y	free text	A30	text	all	all	all	all	if ecs_egr = N, gray out ecs_Etyp (406)			Enter a description of the EGR technology used.
407	eng_Fsys	emission control system, fuel system	Select the applicable engine fuel system type:	Fuel System	fuel-system-type	Y	Y	drop down menu (select one only): -Carb = carburetor -SFI = sequential multiport fuel injection (select SFI for single cylinder fuel injection (because precisely timed)) -MFI = multiport fuel injection -TBI = throttle body fuel injection -DGI = direct gasoline fuel injection -OTH = Other EPA needs to print full text of these drop down selection on the C/C, DATABASE ALERT;;;ask Emily on this one	A4	CARB / TBI / MFI / SFI / DGI / OTH	all	all	ALL	ALL	If eng_Fsys (407)=Other, then eng_Fsys2 (408) is required ; else grey out 408			Select the applicable engine fuel system type: -SFI = sequential multiport fuel injection (select SFI for single cylinder fuel injection (because precisely timed)) -MFI = multiport fuel injection -TBI = throttle body fuel injection -DGI = direct gasoline fuel injection -CARB = carburetor -OTH = Other
408	eng_Fsys2	emission control system, fuel system other	Enter a description of the fuel system:	Fuel system if other:	fuel-system-type-other	N	Y	free text upto 20 digits	A20	text	all	all	ALL	ALL	If eng_Fsys (407)=Other, then eng_Fsys2 (408) is required ; else grey out 408			Enter a description of the fuel system that is not listed above:
409	eng_crbN	engine carburetor number	Enter the number of carburetors	Number of Carburetors:	carburetor-number	N	Y	drop down menu (select one only):	l(1)	0-9	all	all	ALL	ALL	If eng_Fsys (407) =CB, then eng_crbN (409) is required ; else grey out 409			Enter the number of carburetors
410	eng_bbIN	engine barrels per carburetor	Enter the number of barrels per carburetor	barrels per carburetor	barrels	N	Y	drop down menu (select one only)	l(1)	0-9	all	all	ALL	ALL	If eng_Fsys (407) =CB, then eng_bbIN (410) is required ; else grey out 410			Enter the number of barrels per carburetor.

CSI FORM NUMBER (New)	Data Element Name	Data Element Long Name	Text on Web input form	Text on the summary form	proposed harmonized database field name	Required?	collected from mfr	Notes	Format	data value/range/example	Applicable to Sales area (SALE_LOC):	Applicable to vehicle category (Veh_Cat):	Applicable to test procedure (TEST_P):	Applicable to ABT status (ABT_STA)	validation rule1	validation rule2	validation rule3	Description or help menu item
411	eng_asp	engine aspiration turbo-type-code	Select the method of air aspiration for the engine: NAT = Natural TC = turbocharger SC = supercharger OTH = other	Method of Air Aspiration	air-aspiration-method	Y	Y	drop-down menu (select one only): NA = Naturally Aspirated TC = turbocharged SC = supercharged OTH = other	A3	NA / TC / SC / OTH	all	all	all	all	if eng_asp (415) = oth, then ecs_asp_oth (416) is required; else, grayout 416			Select the method of air aspiration for the engine: NAT = Natural TC = turbocharger SC = supercharger OTH = other
412	eng_asp_oth	engine aspiration, other	Type-in a description of the method of engine aspiration	Method of Air Aspiration if other:	air-aspiration-method-other	N	Y	text	A15	free text	all	all	all	all	if eng_asp (415) = oth, then ecs_asp_oth (416) is required; else, grayout 416			Type-in a description of the method of engine aspiration
413	ecs_cac	ECS charge air cooler	Select the Charge Air Cooler type	Charge Air Cooler type	charge-air-cooler-type	Y	Y	drop down menu (select one only) A=air cooler using air cooling L=air cooler using liquid cooling N=no air cooler	A1	A / L / N	all	all	all	all				Select the method of charged air cooling as applicable to this engine family: A = charged air is cooled via air to air exchange cooling; L = charged air is cooled via liquid to air exchange cooling; N = not applicable or no charged air cooler
414	ecs_ecm	emission control system, engine control module	Select the type of electronic engine control module (select only one):	Electronic Control	eng-cont-module-type	Y	Y	drop-down menu (select one only): -NA = not applicable -ECM = engine control module -ICM = ignition control module -PCM = power train control module (controls both engine and transmission) -VCM = vehicle control module (controls engine, transmission, and other additional vehicle functions) -OTH = other (if other is selected enter a description into the comment field.	A3	NA/ECM/ICM/PCM/VCM/OTH	all	all	all	all	if ecs_ecm (414) = Oth, then enter ecs_ecm_oth (422) = oth in applicant note in CSI4			Select the type of electronic engine control module (select only one): -NA = not applicable -ECM = engine control module -ICM = ignition control module -PCM = power train control module (controls both engine and transmission) -VCM = vehicle control module (controls engine, transmission, and other additional vehicle functions) -OTH = other (if other is selected enter an ECM description into the comment field. {internal note: if possible use field #422 for the ECM description if other is selected}
415	ecs_air	emission control system, air injection reaction type-code	Select the applicable method of air injection methodology	Air Injection	air-injection-type	Y	Y	Drop-down menu (select one only): -NA = not applicable -AIR = air injection reaction -PAIR = pulsed air injection reaction -OTH = other	A4	NA/AIR/PAIR/OTH	all	all	all	all	if ecs_air (411) = oth, then ecs_air_oth (412) is required; else, grayout 412			Select the applicable method of air injection methodology (use SAE J1930 technology abbreviations): -NA = not applicable -AIR = air injection reaction -PAIR = pulsed air injection reaction -OTH = other
416	ecs_air_oth	emission control system, air injection reaction type-code2	Type-in the applicable method of air injection methodology	Air Injection if other:	air-injection-type-other	N	Y	text	A15	text	all	all	all	all	if ecs_air (411) = oth, then ecs_air_oth (412) is required; else, grayout 412			Type-in a description of the air injection method.

CSI FORM NUMBER (New)	Data Element Name	Data Element Long Name	Text on Web input form	Text on the summary form	proposed harmonized database field name	Required?	collected from mfr	Notes	Format	data value/range/example	Applicable to Sales area (SALE_LOC):	Applicable to vehicle category (Veh_Cat):	Applicable to test procedure (TEST_P):	Applicable to ABT status (ABT_STA)	validation rule1	validation rule2	validation rule3	Description or help menu item
417	ecs_S	emission control system, air / fuel feedback sensor(s)	Are there any air/fuel feedback sensor used on this engine family?	Air/Fuel Feedback Sensor	feedback-sensor-indicator	Y	Y	Logical: Y=yes N=No	A1	Y/N	all	all	all	all	if ecs_S (417) = N, then ecs_Scfc (421), ecs_Sty (418), ecs_Sty2(419), and ecs_Snum (420) is required; otherwise gray out 418, 419, 420, 421.			Select Y=yes if this engine family uses air / fuel feedback sensors (i.e., closed-loop control or oxygen sensor); Select N=no, if this engine family does not use any air fuel control feedback controls
418	ecs_sty	emission control system, sensor type	Select the type of feedback sensor(s):	Sensor Type	feedback-sensor-type	N	Y	drop-down menu (select one only): -O2S= Oxygen Sensors -HO2S= Heated Oxygen Sensor -O2S,HO2S=both heated O2 Sensor and regular Oxygen sensor -AFS = Air Fuel Sensor HAFS= Heated Air Fuel Sensor -Oth=other type of sensors	A8	O2S / HO2S / O2S,HO2S / AFS / HAFS / Oth	all	all	all	all	if ecs_S (417) = N, then ecs_Scfc (421), ecs_Sty (418), ecs_Sty2(419), and ecs_Snum (420) is required; otherwise gray out 418, 419, 420, 421.	if ecs_sty (418) = Oth, then ecs_sty2 (419) is required; else gray out 419.		Select the type of feedback sensor(s): -O2s -HO2S O2S,HO2S AFS HAFS -others
422	mfr_noteCS4	manufacturer's CSI4 note	Enter any comments that you want EPA/CARB to know regarding CSI.4	Applicant notes:	mfr-comment- csi4	N	Y	free text	A1000	free text	all	all	all	all				Enter any comments that you want EPA/CARB to know regarding CSI.4
419	ecs_sty2	emission control system, sensor type, other	Type-in the type of feedback sensor(s):	Sensor type other	feedback-sensor-type-other	N	Y	text	A15	text	all	all	all	all	if ecs_S (417) = N, then ecs_Scfc (421), ecs_Sty (418), ecs_Sty2(419), and ecs_Snum (420) is required; otherwise gray out 418, 419, 420, 421.	if ecs_sty (418) = Oth, then ecs_sty2 (419) is required; else gray out 419.		Type-in the feedback sensor(s) type
420	ecs_Snum	emission control system, number of sensors	Specify the number of feedback sensor(s) used	Number of Feedback Sensor(s)	feedback-sensor-num	N	Y	Drop-down menu (select one only): 1-6	I(1)	1-6	all	all	all	all	if ecs_S (417) = N, then ecs_Scfc (421), ecs_Sty (418), ecs_Sty2(419), and ecs_Snum (420) is required; otherwise gray out 418, 419, 420, 421.			Select from a dropdown list (1-6), select the total number of the feedback sensor(s) per engine in this engine family

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421	ecs_Scfg	emission control system, sensor configuration	Select the configuration of the feedback sensors arrangement:	Sensor Configuration	feedback-sensor-config	N	Y	drop-down menu (select one only) SN = single -P = parallel -S = serial -PS = three or more sensors in both parallel and series	A2	SN / P/S/PS	all	all	all	all	if ecs_S (417) = N, then ecs_Scfg (421), ecs_Sty (418), ecs_Sty2(419), and ecs_Snum (420) is required; otherwise gray out 418, 419, 420, 421.			Select the configuration of the feedback sensors arrangement (select only one): SN = single -P = parallel -S = serial -P+S = three or more sensors in both parallel and series
422	ecs_ecm_oth	emission control system, engine control module, other	Type-in the type of electronic engine control module	no display use CSI4 field 422	eng-cont-module-type-other	N	Y	text	A20	text	all	all	all	all	if ecs_ecm (414) = Oth, then enter ecs_ecm_oth (422) =oth in applicant note in CSI4			Enter a description of the engine control module if other was selected above into applicant field (CSI4)
423	ECS_EO_NAME	emission control system Executive Order Name	not displayed on web form;	ECS_EO Name(J1930); 423 -- Reserved for CARB Internal Only	ecs-eo-name	N	N	CARB staff enters the data in this field for purpose of generating Executive Order summary of ECS in this engine family using SAE J1930 nomenclature	A50	text	all	all	all	all				

CSI FORM NUMBER (New)	Data Element Name	Data Element Long Name	Text on Web input form	Text on the summary form	proposed harmonized database field name	Required?	collected from mfr	Notes	Format	data value/range/example	Applicable to Sales area (SALE_LOC):	Applicable to vehicle category (Veh_Cat):	Applicable to test procedure (TEST_P):	Applicable to ABT status (ABT_STA)	validation rule1	validation rule2	validation rule3	Description or help menu item
500	not displayed on web form;	not displayed				N	Y	system generated	I(2)	1-99	all	all						Reference exhaust EDV / DDV / EDE / DDE Set number (1-n) which identifies the individual emission data set submitted by the manufacturer; This is a system generated set number that allows mfrs to enter more than one set of emission data
501	xedv_id	exhaust emission data vehicle VIN				Y	Y	free text	A18	text	all	all						Enter a unique vehicle identification number for this exhaust emission test vehicle.
502	xedv_type	exhaust emission data vehicle type				Y	Y	drop down selection of: new / c/o c/a	A3	NEW / C/O / C/A	all	all						Select the type of testing which generated the exhaust emission certification levels: NEW = new test C/O = carry-over of test results from the identical engine family certified previously (from last model year or another model year) C/A = carry across of
503	xedv_COEF	exhaust emission data vehicle carryover engine family				N	Y	free text	A12	text	all	all		if 502 = NEW; then 503 is not required and grey out 503; else 503 is required				If the test results for this engine family are being carried-over or carried-across from a previously certified engine family, enter the 12-character engine family name.
504	xedv_model	exhaust emission data vehicle, model				Y	Y		A15		all	all						Enter the exact vehicle or equipment model name of the EDV which was tested and generated the exhaust emission data. For example, the advertised name of the engine or vehicle.
505	xedv_engcode	exhaust emission data vehicle engine code				Y	Y	text	A15	text	all	all						Enter the emission data vehicle/engine (EDV) test vehicle engine code (typically there may be several engine code to one vehicle model based on the vehicle configuration/calibration)
506	xedv_disp	exhaust emission data vehicle displacement				Y	Y		I(4)	1-9999	all	all						Enter the engine displacement of this EDV (unit in cubic centimeter (cc) only)
507	xedv_rpow	exhaust emission data vehicle rated power				Y	Y		F(5.1)	0.1-999.9	all	all						Enter the rated power value of the EDV:
508	xedv_rpow_unit	exhaust emission data vehicle rated power unit				Y	Y		A6	kw-hr / bhp-hr	all	all						select the unit for rated power of the EDV: (drop down list, select one only) - Kw-hr - bhp-hr
509	xedv_rrpm	exhaust emission data vehicle rated RPM				Y	Y		I(5)	1-99999	all	all						Enter the rated engine speed (RPM) value at the rated power for this EDV:
510	xedv_ecs	exhaust emission data vehicle emission control system				Y	Y	drop down:: selection of drop down is based on ECS set as entered into CSI4 (build drop down from field400 ?)	A5	sample data = ECS1 or ECS2 or ECS3	all	all						Enter the Set Number for the emission control system equipped with this EDV as reported in CSI4 (select only one)

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511	xedv_block	exhaust emission data vehicle block arrangement				Y	Y	this is the same drop down as in the CSI3	A1	S / I / V / R / H / O	all	all						Select the cylinder (block) arrangement of this EDV (select one only): S = single I = inline V = vee R = rotary H = horizontal opposed (flat) O = other
512	xedv_cylIn_num	exhaust emission data vehicle number of cylinders				Y	Y	store this value as a numeric field	I(2)	1 ~ 99	all	all						enter the number of cylinders of the emission data vehicle / engine (1~8 cylinders)
513	xedv_EIM	exhaust emission data vehicle equivalent inertial mass				Y	Y	if field 116 = chassis FTP than this field is required	F(6.1)	0.1~9999.9	all	HMC, OFMC, ATV chassis certification			if field 116 = chassis FTP; then this field is required	if field 116 = engine FTP then grey out this field	if field 116=other, then this is optional	Enter the equivalent inertial mass (EIM) of the tested EDV (units in kilograms only). Enter 0.1 if only the engine was tested.
514	xedv_LVM	exhaust emission data vehicle loaded vehicle mass				Y	Y	if field 116 = chassis FTP than this field is required	F(6.1)	0.1~9999.9	all	Not Engine, chassis certification			if field 116 = chassis FTP; then this field is required	if field 116 = engine FTP then grey out this field	if field 116 = Other, this field is optional	Enter the EDV loaded vehicle mass (units in kilograms only).
515	xedv_tran_type	exhaust emission data vehicle transmission type				Y	Y	if field 116 = chassis FTP than this field is required	A2	A / M / CV	all	Not Engine, chassis certification			if field 116 = chassis FTP; then this field is required	if field 116 = engine FTP then grey out this field	if field 116 = Other, this field is optional	Select the transmission type of the tested EDV (select only one): A = automatic shifting transmission (or with one single speed gearbox) M = manual shifting transmission CV = continuously variable transmission
516	xedv_tran_gear	exhaust emission data vehicle transmission gears				Y	Y	if field 116 = chassis FTP than this field is required	I(2)	1~99	all	Not Engine, chassis certification			if field 116 = chassis FTP; then this field is required	if field 116 = engine FTP then grey out this field	if field 116 = Other, this field is optional	Enter the number of gear for the transmission of the tested EDV
517	xedv_tireP	exhaust emission data vehicle tire pressure				Y	Y		F(4.1)	0.1~99.9	all	Not Engine, chassis certification			if field 116 = chassis FTP; then this field is required	if field 116 = engine FTP then grey out this field	if field 116 = Other, this field is optional	Enter the tire pressure at which the EDV was tested. Enter value in psi unit in 0.1 increments ; if engine test do not enter value for this field
518	xedv_rif	exhaust emission data vehicle road load force				Y	Y		F(5.1)	0.1~999.9	all	Not Engine, chassis certification			if field 116 = chassis FTP; then this field is required	if field 116 = engine FTP then grey out this field	if field 116 = Other, this field is optional	Enter the road load force at which the EDV was tested; if engine test do not enter value for this field.
519	xedv_NV	exhaust emission data vehicle NV ratio				Y	Y		F(5.2)	0.01~99.99	all	Not Engine, chassis certification			if field 116 = chassis FTP; then this field is required	if field 116 = engine FTP then grey out this field	if field 116 = Other, this field is optional	Enter the N/V ratio of the EDV. The N/V is a ratio of engine speed over vehicle speed in the highest transmission gear.

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530	xredv_test_num	exhaust emission data vehicle test number				Y	Y	set number will fill the selectable field 535 and back fill values of selected set number into the CSI form	A2	1~99	all	all			1. auto fill via web application 2. if field 581 is not filled, AND field 110=HMC, at least 4 sets of data must be provided (error msg: You must either provide DDV information or submit at least 4 sets of raw test results) 3. if field 581 is not filled, AND field 110=not HMC, at least 2 sets of data must be provided (error msg: You must to either provide DDV information or submit at least 2 sets of raw test results)	XML straight pass data must include this field (in sequence)	backend application must allow auto fill of field 535 within selected range set for data set identification	this the the beginning of the inner repeating data AUTO Numbering by the system (starting with 1 thru n). The repeating fields are 520 ~ 534. Web users need not enter this field;
531	xredv_test_date	exhaust emission data vehicle test date				Y	Y	date format in yyyy/mm/dd	date	YYYY/MM/DD	all	all			check for current date vs. entered date	current date must be newer than entered date		Enter the date (YYYY/mm/dd) of this exhaust emission test
532	xredv_mfr_test_id	exhaust emission data vehicle manufacturer's test identification number				Y	Y	free text	A35	text	all	all						Enter the unique test identification number that was assigned by the testing facility and that identifies this set of testing condition and test results.
533	xredv_test_by	exhaust emission data vehicle tested by				Y	Y	drop down menu selection: M / E / C	A1	M / E / C	all	all						Identify who conducted this test: M = Manufacturer conducted test E = EPA requested confirmatory test C = CARB requested confirmatory test
534	xredv_test_fuel	exhaust emission data vehicle test fuel				Y	Y	drop down table of test fuels::: must harmonize this table and develop a set of drop down values	A4	see fuel table for values	all	all			must use harmonized set between EPA and CARB otherwise data set will not pass through			Select the exhaust emission fuel used for this test: Indolene Indolene 2 CARB phase2 CNG-CARB CNG-special LPG-CARB LPG-special Diesel Other (provide information in CSI.5 Note section)

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525	xredv_test_type	exhaust emission data vehicle test for				Y	Y	dropdown menu selection (C / R / D / DC / A / O	A2	C / R / D / DC / A / O	all	all						Identify the the purpose for the test: A = EPA audit C = Certification emission test (test results to be used as cert value) D = Durability emission test (test results to be sued as part of generating DF only) DC = Certification emission test + durabilit
526	xredv_test_point	exhaust emission data vehicle test point				Y	Y		F(7.1)	0.1~99999.9	all	all						Enter the odometer value in kilometer or operation hours at the beginning of the test::: if odometer unit is in miles; must convert to kilometers first before enter the data into this field; if no odometer is available (i.e., engine testing) then enter th
527	xredv_test_unit	exhaust emission data vehicle start test unit				Y	Y	drop down menu selection: KM / HR	A2	km / hr	all	all						Select the units of the odometer value or operation hours: KM = kilometers HR = hours
528	rt_test_unit	exhaust raw test unit				Y	Y	drop down menu selection: g/km / g/kw-hr / g/bhp-hr	A9	g/km g/kw-hr g/bhp-hr	all							Select the unit recorded for the raw exhaust emission test, select one only: g/km ; g/kw-hr; g/bhp-hr (only for CARB ATV engine tests)
530	rt_THC	exhaust raw test total hydrocarbon				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(8.4)	0.0001~999.9999	all	all						Enter the raw exhaust emission test result for total hydrocarbon (THC) without the DF applied.
531	rt_NoX	exhaust raw test oxides of nitrogen				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(8.4)	0.0001~999.9999	all	all			not required if field110=ATV.A OR OFMC AND field113= not 49-state			Enter the raw exhaust emission test result for nitrogen oxides (NOx) without the DF applied.
532	rt_THC_NOx	exhaust raw test (total hydrocarbon+oxides of nitrogen)				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(8.4)	0.0001~999.9999	all	all			not required if field110=ATV.A OR OFMC AND field113= not 49-state	required field if 1) field110=HMC class3 AND field114= not SVM, OR 2) field110=ATV engine OR UTV		Enter the raw exhaust emission test compsite result for total hydrocarbon (THC) + nitrogen oxides without the DF applied.
533	rt_CO	exhaust raw test carbon monoxide				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(7.3)	0.001~999.999	all	all						Enter the raw exhaust emission test result for carbon monoxide (CO) without the DF applied.
534	rt_CO2	exhaust raw test carbon dioxide				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.1)	0.1~9999.0	all	all						Enter the raw exhaust emission value for carbon dioxide (CO2).
535	xcl_raw_ARB	raw exhaust emission certification level CARB				Y	Y		I(2)	1~99	CARB	all						enter the exhaust emission test data set number which corresponds to the raw certification levels that will be used to determine the certification value for this EDV

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536 / 530	rc1_Thc	exhaust raw certification level total hydrocarbon1				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(8.4)	0.0001~999.9999	all	all						The system auto enter the raw exhaust emission certification level for total hydrocarbon (THC) without the DF applied consistent with the units of the applicable emission standard. If not using the web interface, then enter the certification level.
537 / 531	rc1_Nox	exhaust raw certification level oxides of nitrogen1				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.3)	0.001~99.999	all	all		not required if field110=ATV.A OR OFMC AND field113= not 49-state				The system auto enter the raw exhaust emission certification level for nitrogen oxides (NOx) without the DF applied consistent with the units of the applicable emission standard. If not using the web interface, then enter the certification level.
538 / 532	rc1_Thc_Nox	exhaust raw certification level (total hydrocarbon+oxides of nitrogen)1				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(8.4)	0.0001~999.9999	all	all		not required if field110=ATV.A OR OFMC AND field113= not 49-state	required field if 1) field110=HMC class3 AND field114= not SVM, OR 2) field110=ATV engine AND			The system auto enter the raw exhaust emission composite certification level for total hydrocarbon (THC) + oxides of nitrogen without the DF applied consistent with the units of the applicable emission standard. If not using the web interface, then enter
539 / 533	rc1_CO	exhaust raw certification level carbon monoxide1				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(7.3)	0.001~999.999	all	all						The system auto enter the raw exhaust emission certification level for carbon monoxide (CO) without the DF applied consistent with the units of the applicable emission standard. If not using the web interface, then enter the certification level.
529 / 534	rc1_CO2	exhaust raw certification level carbon dioxide1				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.1)	0.1~9999.0	all	all						The system auto enter the raw exhaust emission certification level for carbon dioxide (CO2).
540	rc1_extrap_ARB	raw exhaust emission extrapolated certification interval CARB				Y	Y		I(5)	1~99999	CARB	all						enter the extrapolated interval (or end of useful-life) exhaust emission test mileage or hour value that corresponds to the raw certification levels.
541	rc1_extrap_Thc	exhaust raw extrapolated certification level total hydrocarbon				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(8.4)	0.0001~999.9999	all	all						enter the extrapolated raw exhaust emission certification level for total hydrocarbon (THC) without the DF applied consistent with the units of the applicable emission standard.
542	rc1_extrap_Nox	exhaust raw extrapolated certification level oxides of nitrogen				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.3)	0.001~99.999	all	all		not required if field110=ATV.A OR OFMC AND field113= not 49-state				enter the extrapolated raw exhaust emission certification level for nitrogen oxides (NOx) without the DF applied consistent with the units of the applicable emission standard.
543	rc1_extrap_Thc_Nox	exhaust raw extrapolated certification level (total hydrocarbon+oxides of nitrogen)				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(8.4)	0.0001~999.9999	all	all		not required if field110=ATV.A OR OFMC AND field113= not 49-state	required field if 1) field110=HMC class3 AND field114= not SVM, OR 2) field110=ATV engine or UTV			Then enter the raw exhaust emission composite certification level for total hydrocarbon (THC) + oxides of nitrogen without the DF applied consistent with the units of the applicable emission standard.
544	rc1_extrap_CO	exhaust raw extrapolated certification level carbon monoxide				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(7.3)	0.001~999.999	all	all						enter the raw extrapolated exhaust emission certification level for carbon monoxide (CO) without the DF applied consistent with the units of the applicable emission standard.

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545	rtot_interp_ARB	raw total test interval interpolated CARB				Y	Y		I(5)	1~99999	CARB	all						enter the interpolated total test interval that corresponds to the raw exhaust emission test data
546	rtot_interp_THC	exhaust raw interpolated certification level total hydrocarbon				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(8.4)	0.0001~999.9999	all	all						enter the raw interpolated certification level exhaust emission certification level for total hydrocarbon (THC) without the DF applied consistent with the units of the applicable emission standard. If not using the web interface, then enter the certifica
547	rtot_interp_NoX	exhaust raw interpolated certification level oxides of nitrogen				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.3)	0.001~99.999	all	all		not required if field110=ATV.A OR OFMC AND field113= not 49-state				enter the raw interpolated certification level exhaust emission certification level for nitrogen oxides (NOx) without the DF applied consistent with the units of the applicable emission standard.
548	rtot_interpTHC_NOx	exhaust raw interpolated certification level (total hydrocarbon+oxides of nitrogen)1				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(8.4)	0.0001~999.9999	all	all		not required if field110=ATV.A OR OFMC AND field113= not 49-state	required field if 1) field110=HMC class3 AND field114= not SVM, OR 2) field110=ATV engine AND			enter the raw interpolated certification level exhaust emission composite certification level for total hydrocarbon (THC) + oxides of nitrogen without the DF applied consistent with the units of the applicable emission standard.
549	rtot_interp_CO	exhaust raw interpolated certification level carbon monoxide1				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(7.3)	0.001~999.999	all	all						enter the raw interpolated certification level exhaust emission certification level for carbon monoxide (CO) without the DF applied consistent with the units of the applicable emission standard.
550	rmdf_dist_ARB	raw modified DF exhaust emission certification distance CARB				N	Y		I(2)	1~99	CARB	HMC only						For CARB HMC Only::: If using the modified DF method, enter the modified DF distance which corresponds to the raw certification levels that will be used to determine the certification value for this EDV
551	rmdf_interp_THC	exhaust raw modified DF interpolated certification level total hydrocarbon				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(8.4)	0.0001~999.9999	CARB	HMC only						For CARB HMC Only::: If using the modified DF method, enter the raw exhaust emission certification level for total hydrocarbon (THC) without the DF applied consistent with the units of the applicable emission standard.
552	rmdf_interp_NoX	exhaust raw modified DF interpolated certification level oxides of nitrogen				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.3)	0.001~99.999	CARB	HMC only						The system auto For CARB HMC Only::: If using the modified DF method, enter the raw exhaust emission certification level for nitrogen oxides (NOx) without the DF applied consistent with the units of the applicable emission standard. If not using the web
553	rmdf_interp_THC_NOx	exhaust raw modified DF interpolated certification level (total hydrocarbon+oxides of nitrogen)				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(8.4)	0.0001~999.9999	CARB	HMC only						For CARB HMC Only::: If using the modified DF method, enter the raw exhaust emission composite certification level for total hydrocarbon (THC) + oxides of nitrogen without the DF applied consistent with the units of the applicable emission standard.

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554	rmdf_interp_CO	exhaust raw modified DF interpolated certification level carbon monoxide				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(7.3)	0.001~999.999	CARB	HMC only						For CARB HMC Only::: If using the modified DF method, enter the raw exhaust emission certification level for carbon monoxide (CO) without the DF applied consistent with the units of the applicable emission standard.
556	Axdf_THC_ARB	additive exhaust emission deterioration factor, total hydrocarbon ARB				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.4)	0.0001~9.9999	CARB	all						Enter the additive ARB exhaust emission deterioration factor (DF) generated for total hydrocarbon (THC)
557	Axdf_NOx_ARB	additive exhaust emission deterioration factor, oxides of nitrogen ARB				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.4)	0.0001~9.9999	CARB	all						Enter the additive ARB exhaust emission deterioration factor (DF) generated for NOx
558	Axdf_THC_NOx_ARB	additive exhaust emission deterioration factor, total hydrocarbon+oxides of nitrogen CARB				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.4)	0.0001~9.9999	CARB	not HMC			if field 110 = ATV.A or OFMC or Eng; then this field is required			Enter the additive CARB exhaust emission DF generated for total hydrocarbon+ nitrogen oxides (THC+NOx)
559	Axdf_CO_ARB	additive exhaust emission deterioration factor, carbon monoxide ARB				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(5.3)	0.001~9.9999	CARB	all						Enter the additive ARB exhaust emission deterioration factor (DF) generated for CO
561	Mxdf_THC_ARB	multiplacative exhaust emission deterioration factor, total hydrocarbon ARB				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.3)	1.000~99.999	CARB	all						Enter the multiplacative ARB exhaust emission deterioration factor (DF) generated for total hydrocarbon (THC)
562	Mxdf_NOx_ARB	multiplacative exhaust emission deterioration factor, oxides of nitrogen ARB				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.3)	1.000~99.999	CARB	all						Enter the multiplacative ARB exhaust emission deterioration factor (DF) generated for NOx
563	Mxdf_THC_NOx_ARB	multiplacative exhaust emission deterioration factor, total hydrocarbon+oxides of nitrogen CARB				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.3)	1.000~99.999	CARB	not HMC			if field 110 = ATV.A or OFMC or Eng; then this field is required			Enter the multiplacative CARB exhaust emission DF generated for total hydrocarbon+ nitrogen oxides (THC+NOx)
564	Mxdf_CO_ARB	multiplacative exhaust emission deterioration factor, carbon monoxide ARB				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.3)	1.000~99.999	CARB	all						Enter the multiplacative ARB exhaust emission deterioration factor (DF) generated for CO

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565	Excval_UL_type_EPA	exhaust emission certification Useful-Life value type EPA				Y	Y	drop down menu selection: E / D / C	A1	E / D / C	EPA	all			if field 565=C; then fields 570, 574 are required			Identify how the EPA certiaicton exhaust emissions end of useful-life (UL) value was obtained (select one only): E=intrapolated from a set of test values and extrapolated to the engine family's end of useful life; D=tested directly to the engine family
566	Excval_THC_EPA	exhaust emission certification value total hydrocarbon EPA				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.3)	0.0001~999.999	EPA	all						Enter the exhaust end-of-useful life emission value of the total hydrocarbon (HC) for certification of this engine family
567	Excval_NOX_EPA	exhaust emission certification value oxides of nitrogen EPA				N	Y		F(5.3)	0.001~9.999	EPA	all						Enter the exhaust end-of-useful life emission value of the nitrogen oxides (NOx) for certification of this engine family
568	Excval_THC_NOX_EPA	exhaust emission certification value total hydrocarbon + oxides of nitrogen EPA				N (not required only if fields 566 and 567 both have values; otherwise, required)	Y		F(5.3)	0.001~9.999	EPA	all						Enter the exhaust end-of-useful life emission value of the total hydrocarbon + nitrogen oxides (HC+NOx) for certification of this engine family
569	Excval_CO_EPA	exhaust emission certification value carbon monoxide EPA				Y	Y		F(7.3)	0.001~999.999	EPA	all						Enter the exhaust end-of-useful life emission value of the carbon monoxide (CO) for certification of this engine family
570	df_type_EPA	exhaust emission deterioration factor, type EPA				N	Y	drop down menu selection: A=additive DF M=multiplicative S=EPA specified DF	A1	A / M / S	all	all		if filed 565 = C, this field is required				Select the type of EPA exhaust emission deterioration factor (DF) applicable for this engine family, if DF is applied in calculation of the end of useful life emssions (select one only): A = additive DF M = multiplicative DF S = EPA specified DF
571	xdf_THC_EPA	exhaust emission deterioration factor, total hydrocarbon EPA				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.4)	0.0001~9.9999	all	all		if filed 565 = C, this field is required; If this field (570) =A, fields 571, 572, 573, 574 must >1	If this field (570) =M, fields 571, 572, 573, 574 must equal or >1)	If this field (570) =A, fields 571, 572, 573, 574 must not be nagitive (equal or >0)	Enter the EPA exhaust emission DF generated for total hydrocarbon (THC)	
572	xdf_NOx_EPA	exhaust emission deterioration factor, oxides of nitrogen EPA				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.4)	0.0001~9.9999	all	all		if filed 565 = C, this field is required; If this field (570) =A, fields 571, 572, 573, 574 must >2	If this field (570) =M, fields 571, 572, 573, 574 must equal or >1)	If this field (570) =A, fields 571, 572, 573, 574 must not be nagitive (equal or >0)	Enter the EPA exhaust emission DF generated for nitrogen oxides (NOx)	

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573	xdf_THC_NOx_EPA	exhaust emission deterioration factor, total hydrocarbon+oxides of nitrogen EPA				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.4)	0.0001~9.9999	all	all			if filed 565 = C, this field is required; If this field (570) =A, fields 571, 572, 573, 574 must >3	If this field (570) =M, fields 571, 572, 573, 574 must equal or >1)	If this field (570) =A, fields 571, 572, 573, 574 must not be negative (equal or >0)	Enter the EPA exhaust emission DF generated for total hydrocarbon+ nitrogen oxides (THC+NOx)
574	xdf_CO_EPA	exhaust emission deterioration factor, carbon monoxide EPA				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(5.3)	0.001~9.999	all	all			if filed 565 = C, this field is required; If this field (570) =A, fields 571, 572, 573, 574 must >4	If this field (570) =M, fields 571, 572, 573, 574 must equal or >1)	If this field (570) =A, fields 571, 572, 573, 574 must not be negative (equal or >0)	Enter the EPA exhaust emission DF generated for carbon monoxide (CO)
575	Axcval_UL_type	exhaust emission certification Useful-Life value type CARB				Y	Y	drop down menu selection: E / D / C	A1	E / D / C	all	all						select the certificaion exhaust emissions sueful-life (UL) value type : E=extrapolated from test value; D=tested directly; C=calculated by applying the DFs
576	Axcval_THC	exhaust emission certification value total hydrocarbon ARB				Y	Y		F(6.3)	0.0001~999.999								Enter the official ARB certification level for total hydrocarbon (THC) exhaust emissions for this engine family. The certification level is calculated by applying the applicable deterioration factor (DF) to the certification test results that are rounded
577	Axcval_NOX	exhaust emission certification value oxides of nitrogen ARB				Y	Y		F(5.3)	0.001~9.999								Enter the official ARB certification level for nitrogen oxides (NOx) exhaust emissions for this engine family. The certification level is calculated by applying the applicable deterioration factor (DF) to the certification test results that are rounded t
578	Axcval_THC_NOX	exhaust emission certification value total hydrocarbon + oxides of nitrogen ARB				Y	Y		F(5.3)	0.001~9.999								Enter the official ARB certification level for hydrocarbon plus nitrogen oxides (HC + NOx) exhaust emissions for this engine family. The certification level is calculated by applying the applicable deterioration factor (DF) to the certification test resu
579	Axcval_CO	exhaust emission certification value carbon monoxide ARB				Y	Y		F(7.3)	0.001~999.999								Enter the official ARB certification level for carbon monoxide (CO) exhaust emissions for this engine family. The certification level is calculated by applying the applicable deterioration factor (DF) to the certification test results that are rounded to

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581	EF_EDV_DDV_diff	engine family name if EDV different DDV				N	Y	12 digits engine family name	A12		all	all						<p>Enter the 12-digits engine family name if the EDV engine family name is different than the durability data vehicle/engine (DDV) engine family name.</p> <p>Note: 1. You must provide the name of the DDV, if EDV is different than DDV; and you must use the "add another data set" function to provide all raw test data that generates the DF used for this engine family (at least 4 tests for HMC and at least 2 tests for ATV/OFMC/UTV/ENG) 2. You do not need to fill this filed, if the engine family's end of useful life emissions were calculated by interpolating from a set of test values and extrapolating to the engine family's end of useful life; or were tested directly to the engine family's end of useful life; and all raw test results were provided with the EDV data set.</p>
582	xxedv_noteCSI5	exhaust emission data vehicle note				N	Y	free text	A256	text								Enter any comments for section five of the CSI (CSI.5)
583	xxedv_more	exhaust emission data vehicle more				N	Y	1-n EDV data sets are possible	A2	1-99								THIS IS AN INTERNAL FIELD AND IS NOT ENTERED BY THE MFR. THIS IS THE NUMBER ASSIGNED BY THE SYSTEM IF THE MFR CLICKS ON THE "ADD ANOTHER EDV" BUTTON.

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601	ptk_cbd	permeation, fuel tank certified by design				Y	Y	yes / no	A1		EPA	all except HMC			if field100=2008 or greater; then required	if field601 AND 603 =yes, then grey out 605-625	if field601=YES and 603=NO; then greyout 610-616	Are the permeation emissions of the fuel tank being certified according to the certify-by-design option? (per 40CFR1051.245T1) This field is optional until model year 2008. -Y=yes -N=no
602	ptk_cbd2	permeation, fuel tank certified by design2				Y	Y	1 / 2 / O	A1		EPA	all except HMC			if field100=2008 or greater; then required			Select the applicable fuel tank permeation emission certify-by-design category. This field is optional until model year 2008. 1 = based on 40CFR1051.245T1(i) 2 = based on 40CFR1051.245T1(ii) O = other
603	pln_cbd	permeation, fuel line certified by design				Y	Y	yes / no	A1		EPA	all except HMC			if field100=2008 or greater; then required	if field601 AND 603 =yes, then grey out 605-625	if field601=NO and 603=YES; then greyout 617-623	select one only:::certification by design :: permeation certification of fuel line by control technology per 40CFR1051.245T1 category (Y=yes, N=no) This field is optional until model year 2008.
604	pln_dbc2	permeation, fuel line certified by design2				Y	Y	1 / 2 / O	A1		EPA	all except HMC			if field100=2008 or greater; then required			Select one only:::certification by design :: permeation certification of fuel line by control technology per 40CFR1051.245T1 category 1 = based on 40CFR1051.245T1(i) 2 = based on 40CFR1051.245T1(ii) O = other. This field is optional until model year 20
605	ptk_tdco	permeation, fuel tank test data carryover				Y	Y	EPA only	A1	YES = THIS DATA IS CARRYOVE R DATA ; NO = NEW EMISSION DATA NOT CARRYOVE R DATA	EPA	all except HMC			if field100=2008 or greater; then required		if 605=yes then allow data entry for field 606	Is the test data for fuel tank permeation emissions being carried-over from a different engine family? This field is optional until model year 2008. -Y = yes -N = no
606	ptk_efco	permeation, fuel tank deterioration factor carryover				Y	Y	text, EPA only	A12		EPA	all except HMC			if field100=2008 or greater; then required		if 605=yes then allow data entry for field 606	Is the deterioration factor for fuel tank permeation emissions being carried-over from a different engine family? This field is optional until model year 2008. -Y = yes -N = no
607	p_DF_co	permeation carryover test data				Y	Y	logical	A1		EPA	all except HMC			if field100=2008 or greater; then required		if 607=yes then allow data entry for field 608	select ::Y=yes, or N=no for permeation test
608	ptk_df_efco	permeation, fuel tank deterioration factor engine family carryover				Y	Y	text, EPA only	A12		EPA	all except HMC			if field100=2008 or greater; then required		if 607=yes then allow data entry for field 608	Enter the 12-character, previously certified engine family name from which the fuel tank permeation DF are being carried-over, if applicable. Enter NA if this data is not being carried-over from a previously certified engine family. This field is option
610	ptk_industry_id	permeation, fuel tank material industry identification				N	Y	free text	A30	text	EPA	all except HMC			if field100=2008 or greater; then required			enter the unique (standardized ASTM or ISO) industry identification code for the fure tank material

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611	ptk_mat	permeation, fuel tank material				Y	Y	text, EPA only	A20		EPA	all except HMC			if field100=2008 or greater; then required			Enter the fuel tank material. This field is optional until model year 2008.
612	ptk_thk	permeation, fuel tank thickness				Y	Y	EPA only; 0.01~99.99	F(5.2)		EPA	all except HMC			if field100=2008 or greater; then required			Enter the fuel tank thickness in millimeters (mm). This field is optional until model year 2008.
613	ptk_SA	permeation, fuel tank surface area				Y	Y	EPA only; 0.0001~99.9999	F(7.4)		EPA	all except HMC			if field100=2008 or greater; then required			Enter the fuel tank inside surface area in square meters (m ²). This field is optional until model year 2008.
614	ptk_rt	permeation, fuel tank raw test data				Y	Y	EPA only; 0.01~99.99	F(5.2)		EPA	all except HMC			if field100=2008 or greater; then required			Enter the permeation fuel tank's raw test result in units of grams per square meter per day (g/m ² /day) before applying the DF. This field is optional until model year 2008.
615	pth_df	permeation, fuel tank deterioration factor				Y	Y	EPA only; 0.0001~99.9999	F(7.4)		EPA	all except HMC			if field100=2008 or greater; then required			enter the fuel tank's deterioration factor
616	ptk_cval	permeation, fuel tank certification value				Y	Y	EPA only; 0.01~99.99	F(5.2)		EPA	all except HMC			if field100=2008 or greater; then required			Enter the permeation certification level for fuel tank in units of grams per square meter per day (g/m ² / day) before applying the DF. This field is optional until model year 2008.
618	pln_mat	permeation, fuel line material				Y	Y	text, EPA only	A20		EPA	all except HMC			if field100=2008 or greater; then required			Enter the fuel line material. This field is optional until model year 2008.
619	pln_thk	permeation, fuel line thickness				Y	Y	EPA only; 0.01~99.99	F(5.2)		EPA	all except HMC			if field100=2008 or greater; then required			Enter the fuel line thickness : provide material thickness (report thickness in millimeters (mm)). This field is optional until model year 2008.
620	pln_SA	permeation, fuel line surface area				Y	Y	EPA only; 0.0001~99.9999	F(7.4)		EPA	all except HMC			if field100=2008 or greater; then required			Enter the fuel line inside surface area in square meters (m ²). This field is optional until model year 2008.
621	pln_rt	permeation, fuel line raw test data				Y	Y	EPA only; 0.01~99.99	F(5.2)		EPA	all except HMC			if field100=2008 or greater; then required			Enter the permeation fuel lines' raw test data in grams per square meters per day (g/m ² /day) before applying the DF. This field is optional until model year 2008.
622	pln_df	permeation, fuel line deterioration factor				Y	Y	epa only; 0.001~9.999	F(5.3)		EPA	all except HMC			if field100=2008 or greater; then required			Enter the deterioration factor for fuel line permeation Hydrocarbon emissions. This field is optional until model year 2008.
623	pln_cval	permeation, fuel line certification value				Y	Y	EPA only; 0.01~99.99	F(5.2)		EPA	all except HMC			if field100=2008 or greater; then required			Enter the permeation certification level for fuel line in units of grams per square meter per day (g/m ² / day) before applying the DF. This field is optional until model year 2008.
625	pmfr_noteCSI6A	permeation, manufacturer note				N	Y	text, EPA only	A255		EPA	all except HMC			if field100=2008 or greater; then required			Enter any optional comments for section 6a of the CSI (CSI.6a)
627	ptk_ln_type	permeation data type for tank or line				Y	Y	T / L	A1	T=tank data L=line data	EPA	all except HMC			if field100=2008 or greater; then required			select only one:: T=tank, need to enter tank data or additional tank data L=line; need to enter line or additional line data

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633	ptk_cbd3	permeation, fuel tank certified by design3				Y	Y	text	A20		EPA	all except HMC			if field100=2008 or greater; then required			enter the approval reference number if previous selection=OTH, enter the permeation certification of fuel tank by control technology per 40CFR1051.245T1 category=OTH (free text, or reference number of previous approval). This field is optional until mode
636	pln_cbd3	permeation, fuel line certified by design3				Y	Y	text	A20		EPA	all except HMC			if field100=2008 or greater; then required			Certification by design :: based on previous selection=OTH, enter the permeation certification of fuel line by control technology per 40CFR1051.245T1 category=OTH (free text, or reference number of previous approval). This field is optional until model y
525	xredv_test_type	exhaust emission data vehicle test for				Y	Y	dropdown menu selection (C / R / D / DC / A / O	A2	C / R / D / DC / A / O	all	all						Select the applicable test for (the purpose for the test) : C = certification emission test (test results to be used as cert value) R = running change emission test D = durability emission test (test results to be sued as part of generating DF only) DC
526	xredv_test_point	exhaust emission data vehicle test point				Y	Y		F(7.1)	0.1~99999.9	all	all						Enter the odometer value or operation hours at the beginning of the test::: if odometer unit is in miles; must convert to kilometers first before enter the data into this field; if no odometer is available (i.e., engine testing) then enter the hours accum
527	xredv_test_unit	exhaust emission data vehicle start test unit				Y	Y	drop down menu selection: KM / HR	A2	km / hr	all	all						Select the units of the odometer value or operation hours: KM = kilometers HR = hours
528	rt_test_unit1	exhaust raw test unit				Y	Y	drop down menu selection: g/km / g/kw-hr / g/bhp-hr	A9	g/km g/kw-hr g/bhp-hr	all	all						select the unit for the exhaust emission test: g/km ; g/kw-hr ; g/bhp-hr
530	rt_THC1	exhaust raw test total hydrocarbon1				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(8.4)	0.0001~999.9999	all	all						Enter the raw exhaust emission value for total hydrocarbon (THC) without the DF applied consistent with the units of the applicable emission standard.
531	rt_NOx1	exhaust raw test oxides of nitrogen1				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.3)	0.001~99.999	all	all			not required if field110=ATV.A OR OFMC AND field113= not 49-state			Enter the raw exhaust emission value for nitrogen oxides (NOx) without the DF applied consistent with the units of the applicable emission standard.
532	rt_THC_NOx	exhaust raw test (total hydrocarbon+oxides of nitrogen)1				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(8.4)	0.0001~999.9999	all	all			not required if field110=ATV.A OR OFMC AND field113= not 49-state	required field if 1) field110=HMC class3 AND field114= not SVM, OR 2) field110=ATV engine AND		Enter the raw exhaust emission compsite value for total hydrocarbon (THC) + oxides of nitrogen without the DF applied consistent with the units of the applicable emission standard.

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533	r_CO1	exhaust raw test carbon monoxide1				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(7.3)	0.001~999.999	all	all						Enter the raw exhaust emission value for carbon monoxide (CO) without the DF applied consistent with the units of the applicable emission standard.
534	r_CO21	exhaust raw test carbon dioxide1				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.1)	0.1~9999.0	all	all						Enter the raw exhaust emission value for carbon dioxide (CO2).
535	xcl_raw_ARB	raw exhaust emission certification level CARB				Y	Y		I(2)	1~99	CARB	all						enter the exhaust emission test data set number which corresponds to the raw certification levels that will be used to determine the certification value for this EDV
536 / 530	rcl_THC	exhaust raw certification level total hydrocarbon1				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(8.4)	0.0001~999.9999	all	all						The system auto enter the raw exhaust emission certification level for total hydrocarbon (THC) without the DF applied consistent with the units of the applicable emission standard. If not using the web interface, then enter the certification level.
537 / 531	rcl_NoX	exhaust raw certification level oxides of nitrogen1				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.3)	0.001~99.999	all	all		not required if field110=ATV.A OR OFMC AND field113= not 49-state				The system auto enter the raw exhaust emission certification level for nitrogen oxides (NOx) without the DF applied consistent with the units of the applicable emission standard. If not using the web interface, then enter the certification level.
538 / 532	rcl_THC_NOx	exhaust raw certification level (total hydrocarbon+oxides of nitrogen)1				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(8.4)	0.0001~999.9999	all	all		not required if field110=ATV.A OR OFMC AND field113= not 49-state	required field if 1) field110=HMC class3 AND field114= not SVM, OR 2) field110=ATV engine AND			The system auto enter the raw exhaust emission composite certification level for total hydrocarbon (THC) + oxides of nitrogen without the DF applied consistent with the units of the applicable emission standard. If not using the web interface, then enter
539 / 533	rcl_CO	exhaust raw certification level carbon monoxide1				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(7.3)	0.001~999.999	all	all						The system auto enter the raw exhaust emission certification level for carbon monoxide (CO) without the DF applied consistent with the units of the applicable emission standard. If not using the web interface, then enter the certification level.
539 / 534	rcl_CO2	exhaust raw certification level carbon dioxide1				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.1)	0.1~9999.0	all	all						The system auto enter the raw exhaust emission certification level for carbon dioxide (CO2).
540	rul_extrap_ARB	raw exhaust emission extrapolated certification interval CARB				Y	Y		I(5)	1~99999	CARB	all						enter the extrapolated interval (or end of useful-life) exhaust emission test mileage or hour value that corresponds to the raw certification levels.
541	rul_extrap_THC	exhaust raw extrapolated certification level total hydrocarbon				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(8.4)	0.0001~999.9999	all	all						enter the extrapolated raw exhaust emission certification level for total hydrocarbon (THC) without the DF applied consistent with the units of the applicable emission standard.

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542	rul_extrap_NoX	exhaust raw extrapolated certification level oxides of nitrogen				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.3)	0.001~99.999	all	all			not required if field110=ATV.A OR OFMC AND field113= not 49-state			enter the extrapolated raw exhaust emission certification level for nitrogen oxides (NOx) without the DF applied consistent with the units of the applicable emission standard.
543	rul_extrap_THC_NOx	exhaust raw extrapolated certification level (total hydrocarbon+oxides of nitrogen)				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(8.4)	0.0001~999.9999	all	all			not required if field110=ATV.A OR OFMC AND field113= not 49-state	required field if 1) field110=HMC class3 AND field114= not SVM, OR 2) field110=ATV engine AND		Thenter the raw exhaust emission compsite certification level for total hydrocarbon (THC) + oxides of nitrogen without the DF applied consistent with the units of the applicable emission standard.
544	rul_extrap_CO	exhaust raw extrapolated certification level carbon monoxide				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(7.3)	0.001~999.999	all	all						enter the raw extrapolated exhaust emission certification level for carbon monoxide (CO) without the DF applied consistent with the units of the applicable emission standard.
545	rtot_interp_ARB	raw total test interval interpolated CARB				Y	Y		I(5)	1~99999	CARB	all						enter the interpolated total test interval that corresponds to the raw exhaust emission test data
546	rtot_interp_THC	exhaust raw interpolated certification level total hydrocarbon				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(8.4)	0.0001~999.9999	all	all						enter the raw interpolated certification level exhaust emission certification level for total hydrocarbon (THC) without the DF applied consistent with the units of the applicable emission standard. If not using the web interface, then enter the certifica
547	rtot_interp_NoX	exhaust raw interpolated certification level oxides of nitrogen				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.3)	0.001~99.999	all	all			not required if field110=ATV.A OR OFMC AND field113= not 49-state			enter the raw interpolated certification level exhaust emission certification level for nitrogen oxides (NOx) without the DF applied consistent with the units of the applicable emission standard.
548	rtot_interpTHC_NOx	exhaust raw interpolated certification level (total hydrocarbon+oxides of nitrogen)1				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(8.4)	0.0001~999.9999	all	all			not required if field110=ATV.A OR OFMC AND field113= not 49-state	required field if 1) field110=HMC class3 AND field114= not SVM, OR 2) field110=ATV engine AND		enter the raw interpolated certification level exhaust emission compsite certification level for total hydrocarbon (THC) + oxides of nitrogen without the DF applied consistent with the units of the applicable emission standard.
549	rtot_interp_CO	exhaust raw interpolated certification level carbon monoxide1				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(7.3)	0.001~999.999	all	all						enter the raw interpolated certification level exhaust emission certification level for carbon monoxide (CO) without the DF applied consistent with the units of the applicable emission standard.
550	rmdf_dist_ARB	raw modified DF exhaust emission certification distance CARB				N	Y		I(2)	1~99	CARB	HMC only						For CARB HMC Only::: If using the modified DF method, enter the modified DF distance which corresponds to the raw certification levels that will be used to determine the certification value for this EDV
551	rmdf_interp_THC	exhaust raw modified DF interpolated certification level total hydrocarbon				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(8.4)	0.0001~999.9999	CARB	HMC only						For CARB HMC Only::: If using the modified DF method, enter the raw exhaust emission certification level for total hydrocarbon (THC) without the DF applied consistent with the units of the applicable emission standard.

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552	rmdf_interp_NoX	exhaust raw modified DF interpolated certification level oxides of nitrogen				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.3)	0.001~99.999	CARB	HMC only						The system auto For CARB HMC Only::: If using the modified DF method, enter the raw exhaust emission certification level for nitrogen oxides (NOx) without the DF applied consistent with the units of the applicable emission standard. If not using the web
553	rmdf_interp_THC_NOx	exhaust raw modified DF interpolated certification level (total hydrocarbon+oxides of nitrogen)				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(8.4)	0.0001~999.9999	CARB	HMC only						For CARB HMC Only::: If using the modified DF method, enter the raw exhaust emission composite certification level for total hydrocarbon (THC) + oxides of nitrogen without the DF applied consistent with the units of the applicable emission standard.
554	rmdf_interp_CO	exhaust raw modified DF interpolated certification level carbon monoxide				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(7.3)	0.001~999.999	CARB	HMC only						For CARB HMC Only::: If using the modified DF method, enter the raw exhaust emission certification level for carbon monoxide (CO) without the DF applied consistent with the units of the applicable emission standard.
556	Axdf_THC_ARB	additive exhaust emission deterioration factor, total hydrocarbon ARB				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.4)	0.0001~9.9999	CARB	all						Enter the additive ARB exhaust emission deterioration factor (DF) generated for total hydrocarbon (THC)
557	Axdf_NOx_ARB	additive exhaust emission deterioration factor, oxides of nitrogen ARB				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.4)	0.0001~9.9999	CARB	all						Enter the additive ARB exhaust emission deterioration factor (DF) generated for NOx
558	Axdf_THC_NOx_ARB	additive exhaust emission deterioration factor, total hydrocarbon+oxides of nitrogen CARB				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.4)	0.0001~9.9999	CARB	not HMC			if field 110 = ATV.A or OFMC or Eng; then this field is required			Enter the additive CARB exhaust emission DF generated for total hydrocarbon+ nitrogen oxides (THC+NOx)
559	Axdf_CO_ARB	additive exhaust emission deterioration factor, carbon monoxide ARB				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(5.3)	0.001~9.999	CARB	all						Enter the additive ARB exhaust emission deterioration factor (DF) generated for CO
561	Mxdf_THC_ARB	multiplicative exhaust emission deterioration factor, total hydrocarbon ARB				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.3)	1.000~99.999	CARB	all						Enter the multiplicative ARB exhaust emission deterioration factor (DF) generated for total hydrocarbon (THC)

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562	Mxdf_NOx_ARB	multiplacative exhaust emission deterioration factor, oxides of nitrogen ARB				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.3)	1.000~99.999	CARB	all						Enter the multiplacative ARB exhaust emission deterioration factor (DF) generated for NOx
563	Mxdf_THC_NOx_ARB	multiplacative exhaust emission deterioration factor, total hydrocarbon+oxides of nitrogen CARB				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.3)	1.000~99.999	CARB	not HMC		if field 110 = ATV.A or OFMC or Eng; then this field is required				Enter the multiplacative CARB exhaust emission DF generated for total hydrocarbon+ nitrogen oxides (THC+NOx)
564	Mxdf_CO_ARB	multiplacative exhaust emission deterioration factor, carbon monoxide ARB				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.3)	1.000~99.999	CARB	all						Enter the multiplacative ARB exhaust emission deterioration factor (DF) generated for CO
565	Excval_UL_type	exhaust emission certification Useful-Life value type EPA				Y	Y	drop down menu selection: E / D / C	A1	E / D / C	all	all						select the certificaion exhaust emissions sueful-life (UL) value type : E=extrapolated from test value; D=tested directly; C=calculated by applying the DFs
566	Excval_THC	exhaust emission certification value total hydrocarbon EPA				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.3)	0.0001~999.999	all	all						Enter the official EPA certification level for total hydrocarbon (THC) exhaust emissions for this engine family. The certification level is calculated by applying the applicable deterioration factor (DF) to the certification test results that are rounded
567	Excval_NOX	exhaust emission certification value oxides of nitrogen EPA				N	Y		F(5.3)	0.001~9.999								Enter the official EPA certification level for nitrogen oxides (NOx) exhaust emissions for this engine family. The certification level is calculated by applying the applicable deterioration factor (DF) to the certification test results that are rounded t
568	Excval_THC_NOX	exhaust emission certification value total hydrocarbon + oxides of nitrogen EPA				N	Y		F(5.3)	0.001~9.999								Enter the official EPA certification level for hydrocarbon plus nitrogen oxides (HC + NOx) exhaust emissions for this engine family. The certification level is calculated by applying the applicable deterioration factor (DF) to the certification test resu
569	Excval_CO	exhaust emission certification value carbon monoxide EPA				Y	Y		F(7.3)	0.001~999.999								Enter the official EPA certification level for carbon monoxide (CO) exhaust emissions for this engine family. The certification level is calculated by applying the applicable deterioration factor (DF) to the certification test results that are rounded to
570	df_type_EPA	exhaust emission deterioration factor, type EPA				Y	Y	drop down menu selection: A=additive DF M=multiplicative S=EPA specified DF	A1	A / M / S	all	all						Select the type of EPA exhaust emission deterioration factor applicable for this engine family: A = additive DF M = multiplicative DF S = EPA specified DF

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571	xdf_THC_EPA	exhaust emission deterioration factor, total hydrocarbon EPA				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.4)	0.0001~9.9999	all	all						Enter the EPA exhaust emission DF generated for total hydrocarbon (THC)
572	xdf_NOx_EPA	exhaust emission deterioration factor, oxides of nitrogen EPA				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.4)	0.0001~9.9999	all	all						Enter the EPA exhaust emission DF generated for nitrogen oxides (NOx)
573	xdf_THC_NOx_EPA	exhaust emission deterioration factor, total hydrocarbon+oxides of nitrogen EPA				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.4)	0.0001~9.9999	all	all						Enter the EPA exhaust emission DF generated for total hydrocarbon+ nitrogen oxides (THC+NOx)
574	xdf_CO_EPA	exhaust emission deterioration factor, carbon monoxide EPA				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(5.3)	0.001~9.999	all	all						Enter the EPA exhaust emission DF generated for carbon monoxide (CO)
575	Axcval_UL_type	exhaust emission certification Useful-Life value type CARB				Y	Y	drop down menu selection: E / D / C	A1	E / D / C	all	all						select the certificaion exhaust emissions useful-life (UL) value type : E=extrapolated from test value; D=tested directly; C=calculated by applying the DFs
576	Axcval_THC	exhaust emission certification value total hydrocarbon ARB				Y	Y		F(6.3)	0.0001~999.999								Enter the official ARB certification level for total hydrocarbon (THC) exhaust emissions for this engine family. The certification level is calculated by applying the applicable deterioration factor (DF) to the certification test results that are rounded
577	Axcval_NOX	exhaust emission certification value oxides of nitrogen ARB				Y	Y		F(5.3)	0.001~9.999								Enter the official ARB certification level for nitrogen oxides (NOx) exhaust emissions for this engine family. The certification level is calculated by applying the applicable deterioration factor (DF) to the certification test results that are rounded t
578	Axcval_THC_NOX	exhaust emission certification value total hydrocarbon + oxides of nitrogen ARB				Y	Y		F(5.3)	0.001~9.999								Enter the official ARB certification level for hydrocarbon plus nitrogen oxides (HC + NOx) exhaust emissions for this engine family. The certification level is calculated by applying the applicable deterioration factor (DF) to the certification test resu
579	Axcval_CO	exhaust emission certification value carbon monoxide ARB				Y	Y		F(7.3)	0.001~999.999								Enter the official ARB certification level for carbon monoxide (CO) exhaust emissions for this engine family. The certification level is calculated by applying the applicable deterioration factor (DF) to the certification test results that are rounded to
581	EF_EDV_DDV_diff	engine family name if EDV different DDV				N	Y	12 digits engine family name	A12		all	all						enter the 12-digits engine family name if the EDV engine family name is different than the DDV engine family name

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532	xxedv_noteCSI5	exhaust emission data vehicle note				N	Y	free text	A256	text								Enter any comments for section five of the CSI (CSI.5)
533	xxedv_more	exhaust emission data vehicle more				N	Y	1~n EDV data sets are possible	A2	1~99								THIS IS AN INTERNAL FIELD AND IS NOT ENTERED BY THE MFR. THIS IS THE NUMBER ASSIGNED BY THE SYSTEM IF THE MFR CLICKS ON THE "ADD ANOTHER EDV" BUTTON.

CSI FORM NUMBER (New)	Data Element Name	Data Element Long Name	Text on Web input form	Text on the summary form	proposed harmonized database field name	Required?	collected from mfr	Notes	Format	data value/range/example	Applicable to Sales area (SALE_LOC):	Applicable to vehicle category (Veh_Cat):	Applicable to test procedure (TEST_P):	Applicable to ABT status (ABT_STA)	validation rule1	validation rule2	validation rule3	Description or help menu item
CSI FORM NUMBER (New)	Data Element Name	Data Element Long Name				required ?	collected from mfr	Notes	Format	data value / range	Agency Applicable to?	Vehicle Category Applicable to?			validation rule1	validation rule2	validation rule3	Description or help menu item
629	efam_data_set_	evaporative family data set number				N	Y		A2	1~99	CARB	HMC only						system generated (if using web interface) data set number for evaporative family general information If not using the EPA web interface, mfr must include the data set number as part of the XML schema
630	efam_name	evaporative emission, evaporative family name				Y	Y	12 digits free text	A12		CARB	HMC only						Enter the 12-character evaporative family name per EPA evaporative family naming convention.
631	efam_grp	evaporative family group name				N	Y	12 digits free text	A12		CARB	HMC only						Enter the evaporative family group name (this is usually an internal designated code made up by the evaporative system manufacturer)
632	efam_vap_can	evaporative family vapor storage device canister				Y	Y	drop down selection of Yes / NO	A1	Y / N	CARB	HMC only			if field632=Y, then fields 640 thru 646 are required			Uses canister as vapor storage device? Y=yes, N=No
633	efam_vap_crk	evaporative family vapor storage device crankcase				Y	Y	drop down selection of Yes / NO	A1	Y / N	CARB	HMC only						Uses crankcase as vapor storage device? Y=yes, N=No
634	efam_vap_IME	evaporative family vapor storage device intake manifold element				Y	Y	drop down selection of Yes / NO	A1	Y / N	CARB	HMC only						Uses intake manifold element as vapor storage device? Y=yes, N=No
635	efam_vap_air	evaporative family vapor storage device charcoal air cleaner/filter				Y	Y	drop down selection of Yes / NO	A1	Y / N	CARB	HMC only						Uses charcoal air cleaner/filter as vapor storage device? Y=yes, N=No
636	etank_info_set	evaporative family fuel tank data set number				Y	Y	auto generated by system if using web interace	A2	1~99	CARB	HMC only						This field is auto filled by the system if using EPA web interface; evaporative family fuel tank information data set number;; If not using the EPA web interface, mfr must include the data set number as part of the XML schema
637	etank_type	evaporative family fuel tank material				Y	Y	drop down menu	A1	S / P	CARB	HMC only						select the fuel tanks's material (select only one material per fuel tank); S=steel tank, P=Plastic tank (or polymer material)
638	etank_vol	evaporative family fuel tank volume				Y	Y		F(4.1)	0.1~99.9	CARB	HMC only						enter the nominal (40% fill volume) of the fuel tank as per evaporative testing procedure fuel tank volume (unit in liters)
640	efam_can_num	evaporative family vapor storage canister number				Y	Y	drop down selection of 1~6	A1	1 / 2 / 3 / 4 / 5 / 6	CARB	HMC only			if field632=Y, then fields 640 thru 646 are required			select the total number of vapor storage canister in this evaporative family (1 thru 6 physical canisters)

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641	efam_can_config	evaporative family vapor storage canister configuration				Y	Y	drop down menu	A1	I / P / S / B	CARB	HMC only			if field632=Y, then fields 640 thru 646 are required			select only one: the canister configuration in this evaporative family:: I= single canister only, P=more than one canister; in parallel, S=more than one canister; in series, B=more than two canister; in parallel and in series
642	efam_can_Wcap	evaporative family vapor storage canister total working capacity				Y	Y		F(5.1)	0.1~999.9	CARB	HMC only			if field632=Y, then fields 640 thru 646 are required			enter the total working capacity of ALL canisters in this evaporative family (units in grams); If more than one canister, add up all the individual canister's working capacities and enter the sum in this field
643	efam_can_vol	evaporative family vapor storage canister total medium volume				Y	Y		F(6.1)	0.1~9999.9	CARB	HMC only			if field632=Y, then fields 640 thru 646 are required			enter the total medium volume of ALL canisters in this evaporative family (units in cubic centimeter / cc); If more than one canister, add up all the individual canister's media volume and enter the sum in this field
644	efam_can_medium	evaporative family vapor storage canister medium				Y	Y	drop down	A1	C / S	CARB	HMC only			if field632=Y, then fields 640 thru 646 are required			select the canister storage medium: C=carbon, S=synthetic
645	efam_can_housing	evaporative family vapor storage canister housing material				Y	Y	drop down	A1	P / M	CARB	HMC only			if field632=Y, then fields 640 thru 646 are required			select the canister housing material (material of the canister outer shell): P=plastic, M=steel or metal
646	efam_can_VENT	evaporative family vapor storage canister vent configuration				Y	Y	drop down	A1	C / O	CARB	HMC only			if field632=Y, then fields 640 thru 646 are required			select the canister's vent configuration: C=closed bottom O=open bottom
647	efam_purge	evaporative family purge system				Y	Y	drop down	A1	P / O	CARB	HMC only						select the purge system for this evaporative family: P=purge controlled system, O=open vent purge system
648	efam_tank_desc	evaporative family fuel tank material description				Y	Y	free text	A100	text	CARB	HMC only						describe the material of the fuel tank (i.e., steel outer shell with inner plastic liner, steel tank only, plastic/polymer, etc.) for this evaporative family's fuel tanks.
649	efam_line_desc	evaporative family fuel line material description				Y	Y	free text	A100	text	CARB	HMC only						describe the material of the fuel lines or hoses (i.e., plastic/polymer, etc.) for this evaporative family's fuel line/hose. Please include ASTM or ISO material ID.
650	emfr_noteCSI6b	evaporative emission, manufacturer note				Y	Y	free text	A120		CARB	HMC only						Enter any comments for section six (b) of the CSI (CSI.6b)
	efam_ttype	evaporative emission, evaporative family test type				Y	Y	(EEDV, EVDF, EBDF)	A4		CARB	HMC only						Select the applicable test type from which the evaporative emissions were generated: -EEDV = evaporative emission data vehicle -EVDF = evaporative emission vehicle DF -EBDF = evaporative emission bench emission DF

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533	rt_CO1	exhaust raw test carbon monoxide1				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(7.3)	0.001~999.999	all	all						Enter the raw exhaust emission value for carbon monoxide (CO) without the DF applied consistent with the units of the applicable emission standard.
534	rt_CO21	exhaust raw test carbon dioxide1				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.1)	0.1~9999.0	all	all						Enter the raw exhaust emission value for carbon dioxide (CO2).
535	xcl_raw_ARB	raw exhaust emission certification level CARB				Y	Y		I(2)	1~99	CARB	all						enter the exhaust emission test data set number which corresponds to the raw certification levels that will be used to determine the certification value for this EDV
536 / 530	rc1_THC	exhaust raw certification level total hydrocarbon1				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(8.4)	0.0001~999.9999	all	all						The system auto enter the raw exhaust emission certification level for total hydrocarbon (THC) without the DF applied consistent with the units of the applicable emission standard. If not using the web interface, then enter the certification level.
537 / 531	rc1_Nox	exhaust raw certification level oxides of nitrogen1				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.3)	0.001~99.999	all	all		not required if field110=ATV.A OR OFMC AND field113= not 49-state				The system auto enter the raw exhaust emission certification level for nitrogen oxides (NOx) without the DF applied consistent with the units of the applicable emission standard. If not using the web interface, then enter the certification level.
538 / 532	rc1_THC_NOx	exhaust raw certification level (total hydrocarbon+oxides of nitrogen)1				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(8.4)	0.0001~999.9999	all	all		not required if field110=ATV.A OR OFMC AND field113= not 49-state	required field if 1) field110=HMC class3 AND field114= not SVM, OR 2) field110=ATV engine AND			The system auto enter the raw exhaust emission composite certification level for total hydrocarbon (THC) + oxides of nitrogen without the DF applied consistent with the units of the applicable emission standard. If not using the web interface, then enter
539 / 533	rc1_CO	exhaust raw certification level carbon monoxide1				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(7.3)	0.001~999.999	all	all						The system auto enter the raw exhaust emission certification level for carbon monoxide (CO) without the DF applied consistent with the units of the applicable emission standard. If not using the web interface, then enter the certification level.
539 / 534	rc1_CO2	exhaust raw certification level carbon dioxide1				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.1)	0.1~9999.0	all	all						The system auto enter the raw exhaust emission certification level for carbon dioxide (CO2).
540	rc1_extrap_ARB	raw exhaust emission extrapolated certification interval CARB				Y	Y		I(5)	1~99999	CARB	all						enter the extrapolated interval (or end of useful-life) exhaust emission test mileage or hour value that corresponds to the raw certification levels.

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541	ru_extrap_THC	exhaust raw extrapolated certification level total hydrocarbon				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(8.4)	0.0001~999.9999	all	all						enter the extrapolated raw exhaust emission certification level for total hydrocarbon (THC) without the DF applied consistent with the units of the applicable emission standard.
542	ru_extrap_Nox	exhaust raw extrapolated certification level oxides of nitrogen				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.3)	0.001~99.999	all	all		not required if field110=ATV.A OR OFMC AND field113= not 49-state				enter the extrapolated raw exhaust emission certification level for nitrogen oxides (NOx) without the DF applied consistent with the units of the applicable emission standard.
543	ru_extrap_THC_NOx	exhaust raw extrapolated certification level (total hydrocarbon+oxides of nitrogen)				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(8.4)	0.0001~999.9999	all	all		not required if field110=ATV.A OR OFMC AND field113= not 49-state	required field if 1) field110=HMC class3 AND field114= not SVM, OR 2) field110=ATV engine AND			Thenter the raw exhaust emission compsite certification level for total hydrocarbon (THC) + oxides of nitrogen without the DF applied consistent with the units of the applicable emission standard.
544	ru_extrap_CO	exhaust raw extrapolated certification level carbon monoxide				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(7.3)	0.001~999.999	all	all						enter the raw extrapolated exhaust emission certification level for carbon monoxide (CO) without the DF applied consistent with the units of the applicable emission standard.
545	rrot_interp_ARB	raw total test interval interpolated CARB				Y	Y		I(5)	1~99999	CARB	all						enter the interpolated total test interval that corresponds to the raw exhaust emission test data
546	rrot_interp_THC	exhaust raw interpolated certification level total hydrocarbon				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(8.4)	0.0001~999.9999	all	all						enter the raw interpolated certification level exhaust emission certification level for total hydrocarbon (THC) without the DF applied consistent with the units of the applicable emission standard. If not using the web interface, then enter the certifica
547	rrot_interp_Nox	exhaust raw interpolated certification level oxides of nitrogen				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.3)	0.001~99.999	all	all		not required if field110=ATV.A OR OFMC AND field113= not 49-state				enter the raw interpolated certification level exhaust emission certification level for nitrogen oxides (NOx) without the DF applied consistent with the units of the applicable emission standard.
548	rrot_interpTHC_NOx	exhaust raw interpolated certification level (total hydrocarbon+oxides of nitrogen)1				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(8.4)	0.0001~999.9999	all	all		not required if field110=ATV.A OR OFMC AND field113= not 49-state	required field if 1) field110=HMC class3 AND field114= not SVM, OR 2) field110=ATV engine AND			enter the raw interpolated certification level exhaust emission compsite certification level for total hydrocarbon (THC) + oxides of nitrogen without the DF applied consistent with the units of the applicable emission standard.
549	rrot_interp_CO	exhaust raw interpolated certification level carbon monoxide1				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(7.3)	0.001~999.999	all	all						enter the raw interpolated certification level exhaust emission certification level for carbon monoxide (CO) without the DF applied consistent with the units of the applicable emission standard.
550	rmdf_dist_ARB	raw modified DF exhaust emission certification distance CARB				N	Y		I(2)	1~99	CARB	HMC only						For CARB HMC Only::: If using the modified DF method, enter the modified DF distance which corresponds to the raw certification levels that will be used to determine the certification value for this EDV

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551	rmdf_interp_TH C	exhaust raw modified DF interpolated certification level total hydrocarbon				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(8.4)	0.0001~999.9999	CARB	HMC only						For CARB HMC Only::: If using the modified DF method, enter the raw exhaust emission certification level for total hydrocarbon (THC) without the DF applied consistent with the units of the applicable emission standard.
552	rmdf_interp_NoX	exhaust raw modified DF interpolated certification level oxides of nitrogen				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.3)	0.001~99.999	CARB	HMC only						The system auto For CARB HMC Only::: If using the modified DF method, enter the raw exhaust emission certification level for nitrogen oxides (NOx) without the DF applied consistent with the units of the applicable emission standard. If not using the web
553	rmdf_interp_TH C_NOx	exhaust raw modified DF interpolated certification level (total hydrocarbon+oxides of nitrogen)				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(8.4)	0.0001~999.9999	CARB	HMC only						For CARB HMC Only::: If using the modified DF method, enter the raw exhaust emission compsite certification level for total hydrocarbon (THC) + oxides of nitrogen without the DF applied consistent with the units of the applicable emission standard.
554	rmdf_interp_CO	exhaust raw modified DF interpolated certification level carbon monoxide				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(7.3)	0.001~999.999	CARB	HMC only						For CARB HMC Only::: If using the modified DF method, enter the raw exhaust emission certification level for carbon monoxide (CO) without the DF applied consistent with the units of the applicable emission standard.
556	Axdf_THC_ARB	additive exhaust emission deterioration factor, total hydrocarbon ARB				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.4)	0.0001~9.9999	CARB	all						Enter the additive ARB exhaust emission deterioration factor (DF) generated for total hydrocarbon (THC)
557	Axdf_NOx_ARB	additive exhaust emission deterioration factor, oxides of nitrogen ARB				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.4)	0.0001~9.9999	CARB	all						Enter the additive ARB exhaust emission deterioration factor (DF) generated for NOx
558	Axdf_THC_NOx_ARB	additive exhaust emission deterioration factor, total hydrocarbon+oxides of nitrogen CARB				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.4)	0.0001~9.9999	CARB	not HMC			if field 110 = ATVA or OFMC or Eng; then this field is required			Enter the additive CARB exhaust emission DF generated for total hydrocarbon+ nitrogen oxides (THC+NOx)
559	Axdf_CO_ARB	additive exhaust emission deterioration factor, carbon monoxide ARB				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(5.3)	0.001~9.999	CARB	all						Enter the additive ARB exhaust emission deterioration factor (DF) generated for CO
561	Mxdf_THC_ARB	multiplacative exhaust emission deterioration factor, total hydrocarbon ARB				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.3)	1.000~99.999	CARB	all						Enter the multiplacative ARB exhaust emission deterioration factor (DF) generated for total hydrocarbon (THC)

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502	Mxdf_NOx_ARB	multiplacative exhaust emission deterioration factor, oxides of nitrogen ARB				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.3)	1.000~99.999	CARB	all						Enter the multiplacative ARB exhaust emission deterioration factor (DF) generated for NOx
503	Mxdf_THC_NOx_ARB	multiplacative exhaust emission deterioration factor, total hydrocarbon+oxides of nitrogen CARB				N	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.3)	1.000~99.999	CARB	not HMC			if field 110 = ATV.A or OFMC or Eng; then this field is required			Enter the multiplacative CARB exhaust emission DF generated for total hydrocarbon+ nitrogen oxides (THC+NOx)
504	Mxdf_CO_ARB	multiplacative exhaust emission deterioration factor, carbon monoxide ARB				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.3)	1.000~99.999	CARB	all						Enter the multiplacative ARB exhaust emission deterioration factor (DF) generated for CO
505	Excval_UL_type	exhaust emission certification Useful-Life value type EPA				Y	Y	drop down menu selection: E / D / C	A1	E / D / C	all	all						select the certificaion exhaust emissions sueful-life (UL) value type : E=extrapolated from test value; D=tested directly; C=calculated by applying the DFs
506	Excval_THC	exhaust emission certification value total hydrocarbon EPA				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.3)	0.0001~999.999	all	all						Enter the official EPA certification level for total hydrocarbon (THC) exhaust emissions for this engine family. The certification level is calculated by applying the applicable deterioration factor (DF) to the certification test results that are rounded
507	Excval_NOX	exhaust emission certification value oxides of nitrogen EPA				N	Y		F(5.3)	0.001~9.999								Enter the official EPA certification level for nitrogen oxides (NOx) exhaust emissions for this engine family. The certification level is calculated by applying the applicable deterioration factor (DF) to the certification test results that are rounded t
508	Excval_THC_NOX	exhaust emission certification value total hydrocarbon + oxides of nitrogen EPA				N	Y		F(5.3)	0.001~9.999								Enter the official EPA certification level for hydrocarbon plus nitrogen oxides (HC + NOx) exhaust emissions for this engine family. The certification level is calculated by applying the applicable deterioration factor (DF) to the certification test resu
509	Excval_CO	exhaust emission certification value carbon monoxide EPA				Y	Y		F(7.3)	0.001~999.999								Enter the official EPA certification level for carbon monoxide (CO) exhaust emissions for this engine family. The certification level is calculated by applying the applicable deterioration factor (DF) to the certification test results that are rounded to
570	df_type_EPA	exhaust emission deterioration factor, type EPA				Y	Y	drop down menu selection: A=additive DF M=multiplicative S=EPA specified DF	A1	A / M / S	all	all						Select the type of EPA exhaust emission deterioration factor applicable for this engine family: A = additive DF M = multiplicative DF S = EPA specified DF

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571	xdf_THC_EPA	exhaust emission deterioration factor, total hydrocarbon EPA				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.4)	0.0001~9.9999	all	all						Enter the EPA exhaust emission DF generated for total hydrocarbon (THC)
572	xdf_NOx_EPA	exhaust emission deterioration factor, oxides of nitrogen EPA				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.4)	0.0001~9.9999	all	all						Enter the EPA exhaust emission DF generated for nitrogen oxides (NOx)
573	xdf_THC_NOx_EPA	exhaust emission deterioration factor, total hydrocarbon+oxides of nitrogen EPA				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(6.4)	0.0001~9.9999	all	all						Enter the EPA exhaust emission DF generated for total hydrocarbon+ nitrogen oxides (THC+NOx)
574	xdf_CO_EPA	exhaust emission deterioration factor, carbon monoxide EPA				Y	Y	store this value as a numeric field; must keep decimal precision with trailing zeros	F(5.3)	0.001~9.999	all	all						Enter the EPA exhaust emission DF generated for carbon monoxide (CO)
575	Axcval_UL_type	exhaust emission certification Useful-Life value type CARB				Y	Y	drop down menu selection: E / D / C	A1	E / D / C	all	all						select the certificaion exhaust emissions sueful-life (UL) value type : E=extrapolated from test value; D=tested directly; C=calculated by applying the DFs
576	Axcval_THC	exhaust emission certification value total hydrocarbon ARB				Y	Y		F(6.3)	0.0001~999.999								Enter the official ARB certification level for total hydrocarbon (THC) exhaust emissions for this engine family. The certification level is calculated by applying the applicable deterioration factor (DF) to the certification test results that are rounded
577	Axcval_NOX	exhaust emission certification value oxides of nitrogen ARB				Y	Y		F(5.3)	0.001~9.999								Enter the official ARB certification level for nitrogen oxides (NOx) exhaust emissions for this engine family. The certification level is calculated by applying the applicable deterioration factor (DF) to the certification test results that are rounded t
578	Axcval_THC_NOX	exhaust emission certification value total hydrocarbon + oxides of nitrogen ARB				Y	Y		F(5.3)	0.001~9.999								Enter the official ARB certification level for hydrocarbon plus nitrogen oxides (HC + NOx) exhaust emissions for this engine family. The certification level is calculated by applying the applicable deterioration factor (DF) to the certification test resu
579	Axcval_CO	exhaust emission certification value carbon monoxide ARB				Y	Y		F(7.3)	0.001~999.999								Enter the official ARB certification level for carbon monoxide (CO) exhaust emissions for this engine family. The certification level is calculated by applying the applicable deterioration factor (DF) to the certification test results that are rounded to
581	EF_EDV_DDV_diff	engine family name if EDV different DDV				N	Y	12 digits engine family name	A12		all	all						enter the 12-digits engine family name if the EDV engine family name is different than the DDV engine family name

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582	xxedv_noteCS15	exhaust emission data vehicle note				N	Y	free text	A256	text								Enter any comments for section five of the CSI (CSI.5)
583	xxedv_more	exhaust emission data vehicle more				N	Y	1~n EDV data sets are possible	A2	1~99								THIS IS AN INTERNAL FIELD AND IS NOT ENTERED BY THE MFR. THIS IS THE NUMBER ASSIGNED BY THE SYSTEM IF THE MFR CLICKS ON THE "ADD ANOTHER EDV" BUTTON.

CSI FORM NUMBER (New)	Data Element Name	Data Element Long Name	Text on Web input form	Text on the summary form	proposed harmonized database field name	Required?	collected from mfr	Notes	Format	data value/ range/ example	Applicable to Sales area (SALE_LOC):	Applicable to vehicle category (Veh_Cat):	Applicable to test procedure (TEST_P):	Applicable to ABT status (ABT_STA)	validation rule1	validation rule2	validation rule3	Description or help menu item
651	eedv_data_set_num	evaporative emission data vehicle data set number				N	Y		A2	1-99	CARB	HMC only						system generated (if using web interface) data set number for evaporative family general information If not using the EPA web interface, mfr must include the data set number as part of the XML schema
652	eedv_name	evaporative emission data vehicle, evaporative family name				Y	Y	12 digits free text	A12		CARB	HMC only						Enter the 12-character evaporative family name per EPA evaporative family naming convention.
653	eedv_ttype	evaporative emission data vehicle, evaporative family test type				Y	Y	drop down menu selection	A3	NEW / C/O / C/A	CARB	HMC only						Select the applicable test type from which the evaporative emissions were generated: New = New evaporative emission test data C/O = Carryover of evaporative emission test data C/A = Carry-across of evaporative emission test data
654	eedv_COEF	evaporative emission data vehicle carryover engine family				N	Y	free text	A12	text	CARB	HMC only		if 653 = NEW; then 654 is not required and grey out 654; else 654 is required				If the test results for this evaporative family are being carried-over or carried-across from a previously certified evaporative family, enter the 12-character evaporative family name.
655	eedv_grp	evaporative emission data vehicle's evaporative family group name				N	Y	12 digits free text	A12		CARB	HMC only						Enter the evaporative family group name (this is usually an internal designated code made up by the evaporative system manufacturer)
656	eedv_id	evaporative emission data vehicle test vehicle identification number				Y	Y	18 digits VIN	A18	text	CARB	HMC only						enter the evaporative emission data vehicle identification number (VIN)
657	eedv_model	evaporative emission data vehicle model				Y	Y	free text	A65	text	CARB	HMC only						Enter the exact vehicle or equipment model name of the EDV which was tested and generated the evaporative emission data. For example, the advertised name of the engine or vehicle.
658	eedv_disp	evaporative emission data vehicle displacement				Y	Y		I(4)	1-9999	CARB	HMC only						Enter the engine displacement of the evaporative EDV (unit in cubic centimeter (cc) only)
659	eedv_tank_nom	evaporative family fuel tank nominal volume				Y	Y		F(4.1)	0.1-99.9	CARB	HMC only						enter the evaporative emission data vehicle's nominal (40% fill volume) fuel tank as per evaporative testing procedure fuel tank volume (unit in liters)
660	eedv_tank_fill	evaporative family fuel tank full volume				Y	Y		F(4.1)	0.1-99.9	CARB	HMC only						enter the evaporative emission data vehicle's nominal (100% fill volume) fuel tank volume (unit in liters)

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667	eredv_test_num	evaporative emission data vehicle test number				Y	Y	set number will fill the selectable field 690 and back fill values of selected set number into the CSI form	A2	1~99	CARB	HMC only			auto fill via web application	XML straight pass data must include this field (in sequence)	backend application must allow auto fill of field 690 within selected range set for data set identification	this the the beginning of the inner repeating data AUTO Numbering by the system (starting with 1 thru n). The repeating fields are 667 ~ 677. Web users need not enter this field;
668	eredv_date	evaporative emission, emission data vehicle test date				Y	Y	yyyy/mm/dd	date		CARB	HMC only						Enter the test date of this evaporative emission test (yyyy/mm/dd). For example: 2004/12/25.
669	eredv_mfr_test_id	evaporative emission data vehicle manufacturer's test identification number				Y	Y	free text	A35	text	CARB	HMC only						enter the unique test identification number (test number ID usually unique number from the test laboratory that identifies this set of testing conditiona and test results)
670	eredv_test_by	evaporative emission data vehicle tested by				Y	Y	drop down menu selection: M / E / C	A1	M / E / C	CARB	HMC only						Select who conducted this test: M = manufacturer conducted test E = EPA conducted test C = CARB conducted test
671	eredv_test_fuel	evaporative emission data vehicle test fuel				Y	Y	drop down table of test fuels::: must harmonize this table and develop a set of drop down values	A4	see fuel table for values	CARB	HMC only			must use harmonized set between EPA and CARB otherwise data set will not pass through			Select the evaporative emission test fuel used for this test: Indolene Indolene 2 CARB phase2 LPG-CARB Other ; if other is selected, please enter information in CSI6c notes {Internal note: Need to develop / harmonize fuels table with EPA ===insert the complete test fuel table to be used
672	eredv_test_type	exhaust emission data vehicle test for				Y	Y	dropdown menu selection (C / R / D / O	A1	C / R / D / O	CARB	HMC only						Select the applicable test for (the purpose for the test) : C = certification emission test (test results to be used as cert value) R = retest / running change emission test D = durability emission test (test results to be sued as part of generating DF only) O=other; if other is selected, please enter information in CSI6c notes
673	eredv_test_cycle	evaporative emission data vehicle test cycle				Y	Y	drop down menu	A1	S / O	CARB	HMC only						select the evaporative emission test cycle : S = SHED O = other, if other is selected, please enter the information in CSI6C notes section
675	eredv_diurnal	raw evpoartive emission data vehicle, diurnal test data				Y	Y	must keep decimal precision	F(4.2)	0.01~9.00	CARB	HMC only						enter the raw diurnal evaporative emission, diurnal test data with no DF applied
676	eredv_hotsoak	raw evpoartive emission data vehicle, hot soak test data				Y	Y	must keep decimal precision	F(4.2)	0.01~9.00	CARB	HMC only						enter the raw diurnal evaporative emission, hot soak test data with no DF applied

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677	eredv_DHS	raw evpoartive emission data vehicle, diurnal + hot soak test data				Y	Y	must keep decimal precision	F(4.2)	0.01~9.00	CARB	HMC only						enter the raw diurnal evaporative emission, diurnal+hot soak test data with no DF applied
690	ecval_raw_set_num	raw evaporative emission certification level data set number				Y	Y		I(2)	1~99	CARB	HMC only						enter the raw exhaust emission test data set number which corresponds to the raw certification levels that will be used to determine the certification value for this EDV
601 / 675	Ecval_diu	evaporative emission, certification value diurnal emission				N	Y	must keep decimal precision	F(4.2)	0.01~9.99	CARB	HMC only						This should be auto filled-in by the system if evaporative emission data set was entered correctly;;; if not using the EPA WEB interface, then enter the raw test result of the diurnal evaporative emissions for total hydrocarbons (THC) before applying the deterioration factor (DF)
602 / 676	Ecval_hs	evaporative emission,certification value hotsoak emission				N	Y	must keep decimal precision	F(4.2)	0.01~9.99	CARB	HMC only						This should be auto filled-in by the system if evaporative emission data set was entered correctly;;; if not using the EPA WEB interface, then enter the raw test result of the hot-soak evaporative emission test for total hydrocarbons (THC) before applying the deterioration factor (DF)
603 / 677	Ecval_dsh	evaporative emission, certification value diurnal and hotsoak emissions				N	Y	must keep decimal precision	F(4.2)	0.01~9.99	CARB	HMC only						This should be auto filled-in by the system if evaporative emission data set was entered correctly;;; if not using the EPA WEB interface, then enter the raw test result of the diurnal plus hot-soak evaporative emissions for total hydrocarbon (THC) before applying the deterioration factor (DF)
604	efam_edv_df	evaporative family emission data vehicle deterioration factor				Y	Y	must keep decimal precision	F(4.2)	0.01~9.99	CARB	HMC only						enter the evaporative family deterioration factor for THC as applicable to this EDV
605	efam_edv_cval	evaporative family certification value				Y	Y	must keep decimal precision	F(4.2)	0.01~9.99	CARB	HMC only						enter the certification value for this evaporative family (with DF applied)
606	efam_noteCSI6c	CSI6c evaporative family data notes				N	Y	free text	A200	text	CARB	HMC only						enter notes or comments regarding evaporative family test data or vehicle information in this field

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CSI FORM NUMBER (New)	Data Element Name	Data Element Long Name				required ?	collected from mfr	Notes	Format	data value / range	Agency Applicable to?	Vehicle Category Applicable to?			validation rule1	validation rule2	validation rule3	Description or help menu item
800	eddv_data_set_num	evaporative durability data vehicle data set number				N	Y		A2	1-99	CARB	HMC only						system generated (if using web interface) data set number for evaporative family general information If not using the EPA web interface, mfr must include the data set number as part of the XML schema
801	eddv_name	evaporative durability data vehicle, evaporative family name				Y	Y	12 digits free text	A12		CARB	HMC only						Enter the 12-character evaporative family name per EPA evaporative family naming convention.
802	eddv_ttype	evaporative durability data vehicle, evaporative family test type				Y	Y	drop down menu selection	A3	NEW / C/O / C/A	CARB	HMC only						Select the applicable test type from which the evaporative emissions were generated: New = New evaporative emission test data C/O = Carryover of evaporative emission test data C/A = Carry-across of evaporative emission test data
803	eddv_COEF	evaporative durability data vehicle carryover engine family				N	Y	free text	A12	text	CARB	HMC only			if 653 = NEW; then 654 is not required and grey out 654; else 654 is required			If the test results for this evaporative family DFs are being carried-over or carried-across from a previously certified evaporative family, enter the 12-character evaporative family name.
804	eddv_grp	evaporative durability data vehicle's evaporative family group name				N	Y	12 digits free text	A12		CARB	HMC only						Enter the evaporative family group name (this is usually an internal designated code made up by the evaporative system manufacturer)
805	eddv_id	evaporative durability data vehicle test vehicle identification number				Y	Y	18 digits VIN	A18	text	CARB	HMC only						enter the evaporative durability data vehicle identification number (VIN)
806	eddv_model	evaporative durability data vehicle model				Y	Y	free text	A65	text	CARB	HMC only						Enter the exact vehicle or equipment model name of the DDV which was tested and generated the evaporative emission data. For example, the advertised name of the engine or vehicle.
807	eddv_disp	evaporative durability data vehicle displacement				Y	Y		I(4)	1-9999	CARB	HMC only						Enter the engine displacement of the evaporative DDV (unit in cubic centimeter (cc) only)
808	eddv_tank_nom	evaporative family durability data vehicle fuel tank nominal volume				Y	Y		F(4.1)	0.1-99.9	CARB	HMC only						enter the evaporative durability data vehicle's nominal (40% fill volume) fuel tank as per evaporative testing procedure fuel tank volume (unit in liters)

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809	eddv_tank_fill	evaporative family durability data vehicle fuel tank full volume				Y	Y		F(4.1)	0.1~99.9	CARB	HMC only						enter the evaporative durability data vehicle's nominal (100% fill volume) fuel tank volume (unit in liters)
810	eddv_comment	evaporative family durability data vehicle comments				N	Y	free text	A200	text	CARB	HMC only						enter comments or additional information regarding the DDV in this field
811	eveh_assign_df	evaporative assigned vehicle deterioration factor				Y	Y	drop down menu selection	A1	Y / N	CARB	HMC only			if 811=no, then grey out fields 819~829; else required			Are you using CARB assigned vehicle deterioration factor to derive the overall evaporative family DF? Select: Y = Yes, using CARB assigned vehicle DF N = No, did not use assigned vehicle DF
819	ebch_VIN_df	evaporative vehicle identification number bench deterioration factor				Y	Y	free text	A18	text	CARB	HMC only			if 811=YES, then required			enter the bench vehicle identification number that generated the bench DF
820	ebch_test_num	evaporative bench emission data vehicle test number				Y	Y		A2	1~99	CARB	HMC only			auto fill via web application	XML straight pass data must include this field (in sequence)		this is the beginning of the inner repeating data AUTO Numbering by the system (starting with 1 thru n). The repeating fields are 820 ~ 824 and 827. Web users need not enter this field;
821	ebch_date	evaporative bench , emission data vehicle test date				Y	Y	yyyy/mm/dd	date		CARB	HMC only						Enter the test date of this evaporative emission test (yyyy/mm/dd). For example: 2004/12/25.
822	ebch_mfr_test_id	evaporative bench , manufacturer's test identification number				Y	Y	free text	A35	text	CARB	HMC only						enter the unique test identification number (test number ID usually unique number from the test laboratory that identifies this set of testing conditions and test results)
823	ebch_test_fuel	evaporative bench emission data vehicle test fuel				Y	Y	drop down table of test fuels::: must harmonize this table and develop a set of drop down values	A4	see fuel table for values	CARB	HMC only			must use harmonized set between EPA and CARB otherwise data set will not pass through			Select the evaporative emission test fuel used for this test: Indolene Indolene 2 CARB phase2 LPG-CARB Other ; if other is selected, please enter information in CSI6d notes {Internal note: Need to develop / harmonize fuels table with EPA ===insert the complete test fuel table to be used
824	ebch_interval	evaporative , bench test interval				Y	Y	must keep decimal precision	I(5)	1~99999	CARB	HMC only						enter the interval (kilometers, km) or test point distance for the bench evaporative emission test (ie, 3000 km, or 9000km, or 15,000km, etc.)
825	ebch_interp_interval	evaporative , bench interpolated interval				Y	Y	must keep decimal precision	I(5)	1~99999	CARB	HMC only						enter the interpolated interval or test point (usually this is the 1/2 useful-life mileage test point)

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826	ebch_extrap_int erval	evaporative , bench extroplated interval				Y	Y	must keep decimal precision	I(5)	1~99999	CARB	HMC only						enter the extroplated interval or test point (usually this is the end of useful-life milage test point)
827	ebch_THC	evaporative bench THC				Y	Y	must keep decimal precision	F(5.3)	0.001~9.999	CARB	HMC only						enter the raw bench evaporative emission for THC
828	ebch_interp_TH C	evaporative , bench interpolated value for THC				Y	Y	must keep decimal precision	F(5.3)	0.001~9.999	CARB	HMC only						enter the interpolated for total hydrocarbon (THC) (usually this is the 1/2 useful-life milage test point)
829	ebch_extrap_TH C	evaporative , bench extroplated value for THC				Y	Y	must keep decimal precision	F(5.3)	0.001~9.999	CARB	HMC only						enter the extroplated value for total hydrocarbon (THC) (usually this is the end of useful-life milage test point)
831	ebch_df	evaporative emission, bench deterioration factor				Y	Y	0.01~9.99	F(4.2)		CARB	HMC only						Enter the bench evaporative deterioration factor (DF) for total hydrocarbon (THC) evaporative emissions
832	eall_df	evaporative emission, overall deterioration factor				Y	Y	0.01~9.99	F(4.2)		CARB	HMC only						Enter the overall evaporative deterioration factor (DF) for total hydrocarbon (THC) evaporative emissions which is calculated by dividing the sum of the vehicle evaporative DF and the bench evaporative DF by two ((benchDF+vehicleDF)/2)
833	evap_df_out	evaporative DF outlier				N	Y	free text	A200	text	CARB	HMC only						enter any outlier related information in this field
834	ebch_CSI6D_no te	CSI6D bench notes				N	Y	free text	A200	text	CARB	HMC only						enter comments or additional informaiton regarding the bench test in this field
838	eveh_VIN_df	evaporative vehicle identification number vehicle deterioration factor				Y	Y	free text	A18	text	CARB	HMC only			if 811=YES, then required			enter the bench vehicle identification number that generated the vehicle DF
840	eveh_test_num	evaporative vehicle DF data vehicle test number				Y	Y		A2	1~99	CARB	HMC only			auto fill via web application	XML straight pass data must include this field (in sequence)		this the the beginning of the inner repeating data AUTO Numbering by the system (starting with 1 thru n). The repeating fields are 840 ~ 844, and 847 Web users need not enter this field;
841	eveh_date	evaporative vehicle , DF data vehicle test date				Y	Y	yyyy/mm/dd	date		CARB	HMC only						Enter the test date of this evaporative emission test (yyyy/mm/dd). For example: 2004/12/25.
842	eveh_mfr_test_id	evaporative vehicle , manufacturer's test identification number				Y	Y	free text	A35	text	CARB	HMC only						enter the unique test identification number (test number ID usually unique number from the test laboratory that identifies this set of testing conditiona and test results)

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843	evch_test_fuel	evaporative vehicle DF data vehicle test fuel				Y	Y	drop down table of test fuels::: must harmonize this table and develop a set of drop down values	A4	see fuel table for values	CARB	HMC only			must use harmonized set between EPA and CARB otherwise data set will not pass through			Select the evaporative emission test fuel used for this test: Indolene Indolene 2 CARB phase2 LPG-CARB Other ; if other is selected, please enter information in CSI6d notes {Internal note: Need to develop / harmonize fuels table with EPA ===insert the complete test fuel table to be used
844	evch_interval	evaporative , vehicle test interval				Y	Y	must keep decimal precision	I(5)	1-99999	CARB	HMC only						enter the interval (kilometers, km) or test point distance for the bench evaporative emission test (ie, 3000 km, or 9000km, or 15,000km, etc.)
845	evch_interp_interval	evaporative , vehicle interpolated interval				Y	Y	must keep decimal precision	I(5)	1-99999	CARB	HMC only						enter the interpolated interval or test point (usually this is the 1/2 useful-life milage test point)
846	evch_extrap_interval	evaporative , vehicle extroplated interval				Y	Y	must keep decimal precision	I(5)	1-99999	CARB	HMC only						enter the extroplated interval or test point (ususally this is the end of useful-life milage test point)
847	evch_THC	evaporative vehicle THC				Y	Y	must keep decimal precision	F(5.3)	0.001-9.999	CARB	HMC only						enter the raw vehicle evaporative emission for THC
848	evch_interp_THC	evaporative , vehicle interpolated value for THC				Y	Y	must keep decimal precision	F(5.3)	0.001-9.999	CARB	HMC only						enter the interpolated for total hydrocarbon (THC) (usually this is the 1/2 useful-life milage test point)
849	evch_extrap_THC	evaporative , vehicle extroplated value for THC				Y	Y	must keep decimal precision	F(5.3)	0.001-9.999	CARB	HMC only						enter the extroplated value for total hydrocarbon (THC) (ususally this is the end of useful-life milage test point)
851	evch_df	evaporative emission, vehicle deterioration factor				Y	Y	0.01-9.99	F(4.2)		CARB	HMC only						Enter the vehicle evaporative deterioration factor (DF) for total hydrocarbon (THC) evaporative emissions
852	evch_CSI6D_note	CSI6D vehicle notes				N	Y	free text	A200	text	CARB	HMC only						enter comments or additional informaiton regarding the vehicle test in this field

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CSI FORM NUMBER (New)	Data Element Name	Data Element Long Name				required ?	collected from mfr	Notes	Format	data value / range	Agency Applicable to?	Vehicle Category Applicable to?			validation rule1	validation rule2	validation rule3	Description or help menu item
700	cev_set_num	certified engine vehicle model set reference number				N	y				all	all						internal counter for each model set information entered to the database starting from 1-n sets of repeating fields 701-738
701	cev_fin_asm_mfr	certified engine vehicle model's final assembly manufacturer name				Y	y	free text	A65	free text	all	all						enter the final assembly manufacturer's name (typically this is final assembly or last stage of vehicle or engine build's manufacturer name), if differs than the certifying manufacturer
702	cev_make	certified engine vehicle, make				Y	Y	free text	A25	free text	all	all						Enter the name of the engine / vehicle which will be produced within this certified engine family
703	cev_model	certified engine vehicle, model				Y	Y	free text	A25	free text	all	all						Enter the engine/vehicle's advertised or commercial model name (advertised trade name / make)
704	cev_evap_can_num	total number of certified engine vehicle evaporative canisters				Y	y	drop down selection (0-6)	A1	0-6	CARB	HMC		IF FIELD 110=HMC then is required				select the total number of evaporative canisters in the evaporative system as installed on this vehicle model
705	cev_engcode	certified engine vehicle, engine code				Y	Y	free text	A20	free text	all	all						Enter the manufacturer's engine code which differentiates engine or vehicle models within the engine family
706	cev_vehcat	certified engine vehicle, vehicle category				Y	Y	drop down menu	A12	dropdown list as in help description	all	all						select from the Drop-down Menu (select only one) the applicable certification category for this engine or vehicle model -HMC-Ia = Class Ia highway motorcycle with displacement less than 50cc -HMC-Ib = Class Ib highway motorcycle with displacement between 50cc and 169cc -HMC-II = Class II highway motorcycle with displacement between 170-279cc -HMC-III = Class III highway motorcycle with displacement 280cc and over -OFMC= off-road motorcycle -ATVA= all-terrain vehicle category A (meets both EPA and ARB ATV definition) -ATVB= all-terrain vehicle category B (meet EPA ATV definition) -UTV= utility vehicle (meet EPA UTV definition) -ENGINE= engine certified for use in recreational vehicles (EPA-only) -ATVB+ENGINE=both ATVB and ENGINE categories for EPA -ATVB+UTV =both ATVB and utility vehicle categories for EPA -ATVB+UTV+ENG=both ATVB, utility vehicle and ENGINE categories for EPA -UTV+ENGINE=both utility vehicle and ENGINE category for EPA

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707	cev_eng_disp	certified engine vehicle, engine displacement				Y	Y		F(7.1)	0.1~99999.9	all	all			populate CSI3 with the first unique five displacement			Enter the engine displacement for this vehicle/engine model (unit in cc)	
708	cev_eng_bore	certified engine vehicle, engine bore				Y	Y		F(6.1)	0.1~9999.9	all	all						Enter the bore diameter size, in millimeters (mm) for this vehicle/engine model	
709	cev_eng_stroke	certified engine vehicle, engine stroke				Y	Y		F(5.1)	0.1~999.9	all	all						Enter the engine stroke length of the piston for this vehicle/engine model (unit in mm)	
710	cev_BIT	certified engine vehicle, base ignition timing				Y	Y		F(5.1)	0.1~99.9	all	all						enter the base ignition timing (degrees before top dead center, BTDC) for this engine / vehicle model) as prescribed in the maintenance manual for certification testing;; if base timing is after top dead center, enter the value as a negative number	
711	cev_eng_rpow	certified engine vehicle, engine rated power				Y	Y		F(6.1)	0.1~9999.1	all	all						Enter the rated or governed power (in kilowatts- kw) for this vehicle/engine model. Advertised power may be listed if this is the only available source of information.	
712	cev_eng_rpow_rpm	certified engine vehicle, engine rated power RPM				Y	Y		I(5)	1~99999	all	all						Enter the rated speed (in RPM) for this vehicle/engine model which corresponds to the rated power entered above.	
713	cev_eng_rtorg	certified engine vehicle, engine rated torque				Y	Y		F(7.1)	0.1~9999.9	all	all						Enter the rated torque (in newton-meters-N-M) for this vehicle/engine model.	
714	cev_eng_rtrpm	certified engine vehicle, engine rated torque RPM				Y	y		I(5)	1~99999	all	all						Enter the rated revolutions per minute (RPM) for this vehicle/engine model that corresponds to the rated torque.	
715	cev_fuel_sys	certified engine vehicle, fuel system type				N	y	auto fill in this field by taking value entered in field 317 and transfer value into this field	A2	S = single fuel system; B = bi-fuel system; MS = multiple fuel system in the engine family, but only single fuel per engine model; MA = multiple fuel system in the engine family, all engine models operate on multiple fuels	all	all						if value = MS or MA; then allow for field 716 free text	auto fill-in by system by using value in field 317::: the fuel system for this engine family as entered in field 317

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716	cev_op_fuel	certified engine vehicle, operating fuel type				N	y	auto fill in this field by taking value entered in field 305 and transfer value into this field	A15	Gas=gasoline; LPG=liquefied petroleum gas; CNG=compressed natural gas; DSL=diesel; HB=hybrid electric;	all	all			free text if 715 = B or MS or MA			auto fill-in field by system::: get value from field 306; typically this value is gasoline) if Bi-fuel or multiple fuel system engine family, then enter all operating fuel types for this engine vehicle model
717	cev_EIM	certified engine vehicle, EIM				Y	Y	only applicable to vehicle certification	I(4)	1~9999	all	chassis test only			if field 116 = engine; than grey out this field; otherwise this field is required			Enter the equivalent inertial mass of this vehicle model in kilograms (kg). The EIM is the test weight for this vehicle model.
718	cev_LVM	certified engine vehicle, loaded vehicle mass				Y	Y	only applicable to vehicle certification	I(4)	1~9999	all	chassis test only			if field 116 = engine than grey out this field; otherwise this field is required			Enter the loaded vehicle mass (curb weight) of this vehicle model; value includes all factory options available for this vehicle model, unit in kilograms (kg).
719	cev_trans	certified engine vehicle, transmission				Y	Y	free text	A3	A3 , M5, etc	all	chassis test only			if field 116 = engine than grey out this field; otherwise this field is required			enter the transmission type of the vehicle model using the following format: (enter only one) A=automatic, M=Manual, CV=continuously variable: example as A3=automatic 3 speed; A6=automatic 6 speed M5=manual 5 speed; M7=manual 7 speed CV=continuous variable, enter only one transmission type per model; for additional transmissions of the same model, needs to enter as additional model
720	cev_NVR	certified engine vehicle, N/V ratio				Y	Y		F(4.1)	0.1~99.9	all	chassis test only			if field 116 = engine than grey out this field; otherwise this field is required			enter the N/V ratio for this vehicle model
721	cev_label	certified engine vehicle, label				Y	Y	drop down menu	A5	drop down list ; see value in help description	all	all						Select the engine or vehicle label type for which this model will be produced with and sold to: 50 = 50-states label; 49 = 49-states label; CA = California only label; 50+49 = 50-states and 49-states labels; 50+CA = California and 50-state labels; ALL = California and 50-state labels, or California and 49-states labels, or 50-states and 49-states labels; CA+49 = California and 49-states labels;
722	cev_evap_fam	certified engine vehicle, evaporative family name				Y	Y	free text	A12	free text	CARB	HMC			if field 116 = engine than grey out this field; otherwise this field is required			enter the certified evaporative family name for this vehicle model

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723	cev_model_ecs	certified engine vehicle, model emission control system				Y	Y	drop down from ECS set as entered in CSI4 (i.e., ECS1, ECS2, ECS3, etc.)	A4	system creates ECS set (1~n) as entered in repeating CSI4	all	all						select applicable emission control systems (ECS) as entered in CSI 4 ; should only select one choice from previously enter ECS sets
724	cev_ca_psale	certified engine vehicle, California projected sale				Y	Y		l(6)	1~999999	all	all						Enter the total California-only projected sales. This field is permanently confidential business information (CBI).
725	cev_US_psale	certified engine vehicle, US projected sales				Y	Y		l(6)	1~999999	all	all						Enter the total U.S. projected sales. This field is permanently confidential business information (CBI).
726	cev_49S_psale	certified engine vehicle, 49-states (us sales - CA sales) projected sales				Y	Y		l(6)	1~999999	all	all						Enter the total 49 States projected sales = US sales - CA sales. This field is permanently confidential business information (CBI).
731	aca_LT50W	ATVA California less than 50 inches wide				Y	Y	yes / no	A1	Y / N	CARB	ATV			if field 110 = ATVA AND field 113 not equal to 49-states ; then this field is required; otherwise grey out		CA-only	Question 1 of 6: Is this vehicle less than 50" wide? If yes then proceed to next question; if no, then this is not a CA ATV. -YES = agree -NO = disagree or deny;
732	aca_4LPT	ATVA California four low pressure tires				Y	Y	yes / no	A1	Y / N	CARB	ATV			if field 110 = ATVA AND field 113 not equal to 49-states ; then this field is required; otherwise grey out		CA-only	Question 2 of 6: Does this vehicle use four low pressure tires? If yes then proceed to next question; if no, then this is not a CA ATV. -YES = agree -NO = disagree or deny
733	aca_OSS	ATVA California operator straddled seat				Y	Y	yes / no	A1	Y / N	CARB	ATV			if field 110 = ATVA AND field 113 not equal to 49-states ; then this field is required; otherwise grey out		CA-only	Question 3 of 6: Is the seat straddled by the vehicle operator? If yes then proceed to next question; if no, then this is not a CA ATV. -YES = agree -NO = disagree or deny
734	aca_ZP	ATVA California zero passenger				Y	Y	yes / no	A1	Y / N	CARB	ATV			if field 110 = ATVA AND field 113 not equal to 49-states ; then this field is required; otherwise grey out		CA-only	Question 4 of 6: The vehicle does not have a seat to carry a passenger? If yes then proceed to next question; if no, then this is not a CA ATV. -YES = agree -NO = disagree or deny
735	aca_HAND	ATVA California handlebar				Y	Y	yes / no	A1	Y / N	CARB	ATV			if field 110 = ATVA AND field 113 not equal to 49-states ; then this field is required; otherwise grey out		CA-only	Question 5 of 6: Is there a handlebar for steering? If yes then proceed to next question; if no, then this is not a CA ATV. -YES = agree -NO = disagree or deny

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736	aca_P350	ATVA California payload less 350 pounds				Y	Y	yes / no	A1	Y / N	CARB	ATV			if field 110 = ATVA AND field 113 not equal to 49-states ; then this field is required; otherwise grey out		CA-only	Question 6 of 6: The vehicle's maximum payload is equal to or less than 350 pounds? If yes then proceed to next question; if no, then this is not a CA ATV. -YES = agree -NO = disagree or deny
737	aca_model_exe mpt	ATVA California model manufacturer previously exempted				Y	Y	yes / no	A1	Y / N	CARB	ATV			if field 110 = ATVA AND field 113 not equal to 49-states ; then this field is required; otherwise grey out		CA-only	This vehicle (ATV) model was previously exempted by the manufacturer with approval from CARB as ATVA ; select Y=yes, exempted; or N=no, not exempted
738	aca_CSI7_note	certified engine vehicle, manufacturer's note for CSI7				N	y	free text	A256	free text	all	ATV						enter any additional comment or notes for information enter in this set of CSI7
xxx	aca_CATV	ATVA California true				N	Y	yes / no	A1		CARB	ATV			internal CARB staff data entry	select only Y=yes; or N=no for determining if this model is truly a CA ATV	CA-only	THIS FIELD IS NOT ENTERED BY THE MFRS. THIS IS AN INTERNAL ARB FIELD TO BE ENTERED BY ARB CERTIFICATION STAFF. THIS FIELD SHOULD NOT BE ON THE CDX WEB SCREENS AND DOES NOT NEED TO BE STORED IN EPA'S VERIFY DATABASE. {Internal Note to ARB certification staff: If ALL YES to questions 1~6, then this is a CA-ATV}
xxx	aca_staff_noteCSI7	ATVA California staff note				N	N	free text	A50		CARB				internal CARB staff data entry		CA-only	THIS FIELD IS NOT ENTERED BY THE MFRS. THIS IS AN INTERNAL ARB FIELD TO BE ENTERED BY ARB CERTIFICATION STAFF. THIS FIELD SHOULD NOT BE ON THE CDX WEB SCREENS AND DOES NOT NEED TO BE STORED IN EPA'S VERIFY DATABASE. {Internal Note to ARB certification staff: Enter any comments here.}