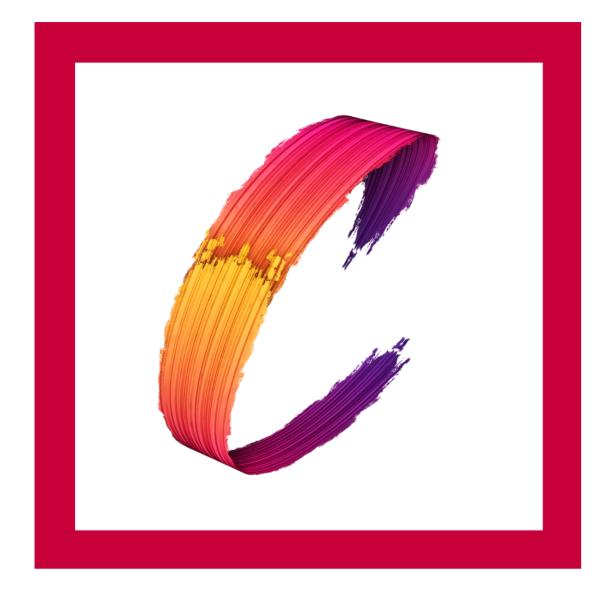
Binary to Decimal Chart



CV-22 Advance Consist headlight control CV-23 Advance Consist acceleration rate CV-24 Advance Consist deceleration rate

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SEE YOUR DECODER MANUAL FOR ALL OF THE CVs IT USES AND THE RANGE OF VALUES.

CV-29 Configuration Register Bit 0=Direction of travel Bit 1=Speed step 28 Bit 2=d.c. enable Bit 3= Advance acknowledgment Bit 4= Alternate speed table Bit 5= Long address. CV-66 Forward Trim CV-67 to 94 Speed Table CV-95 Reverse Trim

Binary Number System for one byte

Bit Number| 7| 6| 5| 4|3|2|1|0| Bit Weight<u>|128|64|32|16|8|4|2|1|</u>

Some Commonly used CVs

CV-1 Short Address	CV-6 Mid Point Voltage
CV-2 Start Voltage	CV-7 Ver Number
CV-3 Acceleration Rate	CV-8 Maker ID
CV-4 Deceleration Rate	CV-17/18 Long Address
CV-5 Maximum Voltage	CV-19 Consist Address

CV-21 Advance Consist function control

Decimal	Binary	Hex	Decimal	Binary	Hex	Decimal	Binary	Hex	Decimal	Binary	Hex
Bit No.>	76543210			76543210			76543210			76543210	
0	00000000	0	64 CE	01000000	40	128	10000000	80	192	11000000	C0
1 2	00000001 00000010	1 2	65 66	01000001 01000010	41 42	129 130	10000001 10000010	81 82	193 194	11000001 11000010	C1 C2
2	00000010	2	67	01000010	42	130	10000011	83	194	11000010	C2
4	00000100	4	68	01000100	44	132	10000100	84	196	11000100	C4
5	00000101	5	69	01000101	45	133	10000101	85	197	11000101	C5
6	00000110	6	70	01000110	46	134	10000110	86	198	11000110	C6
7	00000111	7	71	01000111	47	135	10000111	87	199	11000111	C7
8	00001000	8	72	01001000	48	136	10001000	88	200	11001000	C8
9	00001001	9	73	01001001	49	137	10001001	89	201	11001001	С9
10	00001010	A	74	01001010	4A	138	10001010	8A	202	11001010	CA
11 12	00001011 00001100	B C	75 76	01001011 01001100	4B 4C	139 140	10001011 10001100	8B 8C	203 204	11001011 11001100	CB CC
12	00001100	D	77	01001100	40 40	140	10001100	8D	204	11001101	CD
14	00001110	E	78	01001110	4 E	142	10001110	8E	206	11001110	CE
15	00001111	F	79	01001111	4 F	143	10001111	8 F	207	11001111	CF
16	00010000	10	80	01010000	50	144	10010000	90	208	11010000	D0
17	00010001	11	81	01010001	51	145	10010001	91	209	11010001	D1
18	00010010	12	82	01010010	52	146	10010010	92	210	11010010	D2
19	00010011	13	83	01010011	53	147	10010011	93	211	11010011	D3
20	00010100	14	84	01010100	54	148	10010100	94	212	11010100	D4
21 22	00010101 00010110	15 16	85 86	01010101 01010110	55 56	149 150	10010101 10010110	95 96	213 214	11010101 11010110	D5 D6
22	00010111	17	87	01010110	57	151	10010111	97	214	11010111	D0 D7
24	00011000	18	88	01011000	58	152	10011000	98	216	11011000	D8
25	00011001	19	89	01011001	59	153	10011001	99	217	11011001	D 9
26	00011010	1A	90	01011010	5A	154	10011010	9A	218	11011010	DA
27	00011011	1B	91	01011011	5B	155	10011011	9B	219	11011011	DB
28	00011100	1C	92	01011100	5C	156	10011100	9C	220	11011100	DC
29	00011101	1D	93	01011101	5D	157	10011101	9 D	221	11011101	DD
30	00011110	1E	94	01011110	5E	158	10011110	9E	222	11011110	DE
31 32	00011111 00100000	1F 20	95 96	01011111 01100000	5F 60	159 160	10011111 10100000	9F A0	223 224	11011111 11100000	DF E0
33	00100000	20	97	01100000	61	161	10100001	AU Al	224	11100001	E1
34	00100010	22	98	01100010	62	162	10100010	A2	226	11100010	E2
35	00100011	23	99	01100011	63	163	10100011	A3	227	11100011	E3
36	00100100	24	100	01100100	64	164	10100100	A4	228	11100100	E4
37	00100101	25	101	01100101	65	165	10100101	A5	229	11100101	E5
38	00100110	26	102	01100110	66	166	10100110	A6	230	11100110	E 6
39	00100111	27	103	01100111	67	167	10100111	A7	231	11100111	E7
40	00101000	28	104	01101000	68	168	10101000	A8	232	11101000	E8
41 42	00101001 00101010	29 2A	105 106	01101001 01101010	69 6a	169 170	10101001 10101010	A9 AA	233 234	11101001 11101010	E9 EA
43	00101010	2B	100	01101010	6B	171	10101010	AB	235	11101010	EB
44	00101100	2C	108	01101100	6C	172	10101100	AC	236	11101100	EC
45	00101101	2 D	109	01101101	6D	173	10101101	AD	237	11101101	ED
46	00101110	2 E	110	01101110	6E	174	10101110	AE	238	11101110	EE
47	00101111	2 F	111	01101111	6 F	175	10101111	AF	239	11101111	EF
48	00110000	30	112	01110000	70	176	10110000	в0	240	11110000	FO
49	00110001	31	113	01110001	71	177	10110001	B1	241	11110001	F1
50 51	00110010 00110011	32 33	114 115	01110010 01110011	72 73	178 179	10110010 10110011	В2 В3	242 243	11110010 11110011	F2 F3
52	00110011	34	115	01110011	74	180	101100011	в3 В4	243	11110100	F4
53	00110101	35	117	01110101	75	181	10110101	B5	245	11110101	F5
54	00110110	36	118	01110110	76	182	10110110	B6	246	11110110	F6
55	00110111	37	119	01110111	77	183	10110111	в7	247	11110111	F7
56	00111000	38	120	01111000	78	184	10111000	в8	248	11111000	F8
57	00111001	39	121	01111001	79	185	10111001	в9	249	11111001	F 9
58	00111010	3A	122	01111010	7A	186	10111010	BA	250	11111010	FA
59	00111011	3B	123	01111011	7B	187	10111011	BB	251	11111011	FB
60 61	00111100 00111101	3C 3D	124 125	01111100 01111101	7C 7D	188 189	10111100 10111101	BC BD	252 253	11111100 11111101	FC FD
62	00111101	3D 3E	125	011111101	7D 7E	190	101111101	BD BE	253	1111111101	FE
63	00111111	35	127	01111111	7E 7F	191	10111111	BF	255	11111111	FF
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