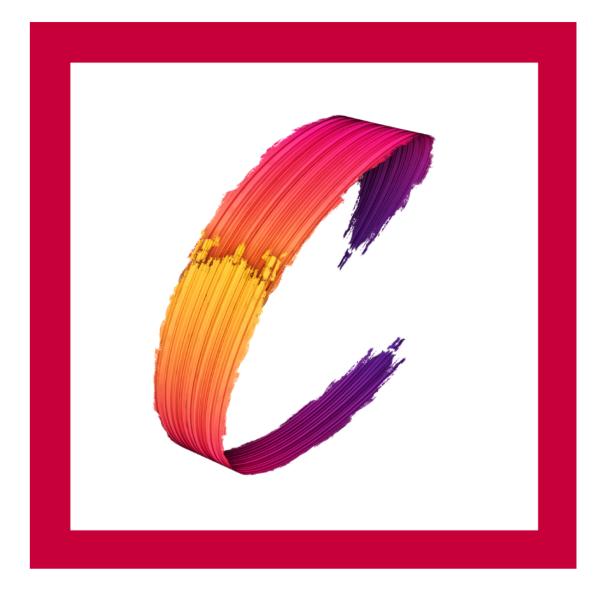
Decimal to Binary Chart

BIN.N2 76543210 76543210 76543210 76543210 0 0000000 0 64 0000000 1 12 1000000 0 192 1000000 0 1 0000001 1 65 0100001 41 129 1000001 0 192 1100001 0 2 0000010 1 66 0100010 44 131 1000010 64 139 11000010 65 3 0000101 6 70 0100011 46 134 1000010 66 139 1100010 67 4 0000100 8 72 0100101 48 136 1000101 88 200 1100100 67 10 0000101 77 0100101 41 139 1000101 68 200 11001010 61 130 1001010 130 1001010 130 11001010 130 11001010 130 11001010 130	Decimal	Binary	Hex	Decimal	Binary	Hex	Decimal	Binary	Hex	Decimal	Binary	Hex
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480011000030112011100007017610110000B024011110000F0490011000131113011100017117710110001B124111110001F1500011001032114011100107217810110010B224211110010F2510011001133115011100117317910110011B324311110011F35200110103411601110100741801011010B42441111010F45300110113511701110101751811011010B52451111010F5540011011361180111010761821011010B62461111010F6550011011371190111011771831011010B62441110010F8570011000381200111000781841011000B82491111001F95800110103912201110017A1861011010BA2501111010FA5900111013B1230111017B1871011101BB251111101FB6000111003C12401111007C1881011100BC2521111101FD61001111013D125 <td></td>												
500011001032114011100107217810110010B22421110010F2510011001133115011100117317910110011B324311110011F35200110103411601110100741801011010B42441111010F45300110103511701110101751811011010B52451111010F5540011011361180111010761821011010B62461111010F6550011011371190111011771831011011B72471111011F7560011100381200111000781841011000B82481111000F8570011101391210111001791851011100BA2501111001F95800111013A12201111007A1861011100BA2501111001FA5900111013B12301111017B1871011101BB2511111001FC60001111003C12401111007C1881011100BC2521111101FD61001111013D12501111017D1891011110BD2531111101FD62001111003E126	48	00110000	30	112	01110000	70	176	10110000	в0	240	11110000	FO
510011001133115011100117317910110011B32431110011F3520011010034116011101007418010110100B424411110100F4530011010135117011101017518110110101B524511110101F5540011011036118011101107618210110110B62461111010F6550011011137119011101117718310110111B724711110111F756001110003812001111000781841011100B82481111000F857001110013912101111001791851011100BA2501111001F958001110103A12201111017A1861011101BA2501111001FA5900111013B12301111017B1871011101BB2511111011FB60001111013D12501111007C1881011100BC252111100FC61001111013D12501111017D18910111101BD2531111101FD62001111003E12601111107E1901011110BE2541111110FE	49	00110001	31	113	01110001	71	177	10110001	В1	241	11110001	F1
520011010034116011101007418010110100B424411110100F4530011010135117011101017518110110101B524511110101F5540011011036118011101107618210110110B624611110110F6550011011137119011101117718310110111B724711110111F756001110003812001111000781841011000B82481111000F8570011100139121011110017918510111001B92491111001F95800111013A12201111017A1861011101BA2501111001FA5900111013B12301111017B1871011101BB2511111011FB60001111003C12401111007C1881011100BC2521111101FD61001111013D12501111017D18910111101BD2531111101FD6200111103E12601111107E1901011110BE2541111100FE												
530011010135117011101017518110110101B524511110101F5540011011036118011101107618210110110B624611110110F6550011011137119011101117718310110111B724711110111F7560011100038120011110007818410111000B82481111000F8570011100139121011110017918510111001B92491111001F958001110103A12201111017A18610111010BA2501111010FA5900111013B12301111017B1871011101BB2511111011FB60001111003C12401111007C1881011100BC2521111100FC61001111013D12501111017B18910111101BD2531111101FD62001111003E12601111107E1901011110BE2541111100FE												
540011011036118011101107618210110110B624611110110F6550011011137119011101117718310110111B724711110111F7560011100038120011110007818410111000B82481111000F8570011100139121011110017918510111001B92491111001F958001110103A12201111007A1861011101BA2501111010FA59001110113B12301111017B1871011101BB2511111011FB6000111003C12401111007C1881011100BC2521111100FC61001111013D12501111017D18910111101BD2531111101FD6200111103E12601111107E1901011110BE2541111110FE												
550011011137119011101117718310110111B724711110111F7560011100038120011110007818410111000B82481111000F8570011100139121011110017918510111001B92491111001F958001110103A122011110107A18610111010BA2501111010FA59001110113B12301111017B18710111011BB2511111011FB60001111003C12401111007C1881011100BC2521111100FC61001111013D12501111017D18910111101BD2531111101FD6200111103E12601111107E1901011110BE2541111100FE												
560011100038120011110007818410111000B82481111000F8570011100139121011110017918510111001B924911111001F958001110103A122011110107A18610111010BA25011111010FA59001110113B12301111017B1871011101BB25111111011FB60001111003C12401111007C18810111100BC2521111100FC61001111013D125011111017D18910111101BD2531111101FD6200111103E12601111107E1901011110BE2541111100FE												
570011100139121011110017918510111001B92491111001F958001110103A122011110107A18610111010BA25011111010FA59001110113B123011110117B18710111011BB25111111011FB60001111003C12401111007C18810111100BC2521111100FC61001111013D12501111017D18910111101BD2531111101FD6200111103E12601111107E1901011110BE2541111110FE												
58001110103A122011110107A18610111010BA2501111010FA59001110113B123011110117B18710111011BB25111111011FB60001111003C12401111007C18810111100BC2521111100FC61001111013D125011111017D18910111101BD2531111101FD6200111103E12601111107E1901011110BE2541111110FE												
59001110113B123011110117B18710111011BB25111111011FB60001111003C12401111007C18810111100BC2521111100FC61001111013D125011111017D18910111101BD2531111101FD6200111103E12601111107E1901011110BE2541111110FE												
60001111003C12401111007C18810111100BC2521111100FC61001111013D12501111017D18910111101BD2531111101FD6200111103E12601111107E1901011110BE2541111110FE												
62 00111110 3E 126 01111110 7E 190 10111110 BE 254 11111110 FE												
	61	00111101	3D	125	01111101	7 D	189	10111101	BD	253	11111101	FD
63 00111111 3F 127 01111111 7F 191 10111111 BF 255 11111111 FF												
	63	00111111	ЗF	127	01111111	7 F	191	10111111	BF	255	11111111	FF



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

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

CV-21 Advance Consist function control